WEBVTT

NOTE duration:"01:30:28.8850000"

NOTE language:en-us

NOTE Confidence: 0.843219220638275

00:00:00.000 --> 00:00:02.870 Cancer therapeutics and delivery systems.

NOTE Confidence: 0.843219220638275

00:00:02.870 --> 00:00:05.740 My name is Tim Shannon,

NOTE Confidence: 0.843219220638275

00:00:05.740 --> 00:00:08.680 partner at Canaan Partners venture capital

NOTE Confidence: 0.843219220638275

00:00:08.680 --> 00:00:11.589 firm that's active in the oncology

NOTE Confidence: 0.843219220638275

00:00:11.589 --> 00:00:14.627 space in the biotech space in general.

NOTE Confidence: 0.843219220638275

00:00:14.630 --> 00:00:17.366 And you would like to thank you all

NOTE Confidence: 0.843219220638275

00:00:17.366 --> 00:00:19.954 for joining us today and what we hope

NOTE Confidence: 0.843219220638275

00:00:19.954 --> 00:00:22.709 will be a really engaging 90 minutes.

NOTE Confidence: 0.843219220638275

00:00:22.710 --> 00:00:25.374 I think you know, for those of us who

NOTE Confidence: 0.843219220638275

00:00:25.374 --> 00:00:27.856 have been involved in in this area,

NOTE Confidence: 0.843219220638275

00:00:27.860 --> 00:00:29.954 you know there's nothing more exciting

NOTE Confidence: 0.843219220638275

00:00:29.954 --> 00:00:32.114 than to develop a novel cancer

NOTE Confidence: 0.843219220638275

00:00:32.114 --> 00:00:34.214 drug and see it benefit patient.

NOTE Confidence: 0.843219220638275

00:00:34.220 --> 00:00:35.924 It's incredibly rewarding.

NOTE Confidence: 0.843219220638275

00:00:35.924 --> 00:00:39.900 I think in today's session is some

NOTE Confidence: 0.843219220638275

00:00:39.998 --> 00:00:43.256 of our speakers present their work.

NOTE Confidence: 0.843219220638275

00:00:43.260 --> 00:00:45.864 You'll see how impactful Yales Bend

NOTE Confidence: 0.843219220638275

00:00:45.864 --> 00:00:48.601 in this sphere, and in particular,

NOTE Confidence: 0.843219220638275

00:00:48.601 --> 00:00:51.463 Yale Cancer Center and really helping

NOTE Confidence: 0.843219220638275

00:00:51.463 --> 00:00:54.252 to Harold the great progress that

NOTE Confidence: 0.843219220638275

00:00:54.252 --> 00:00:57.078 we've all seen in Cancer Therapeutics

NOTE Confidence: 0.843219220638275

00:00:57.078 --> 00:00:59.150 in the last decade.

NOTE Confidence: 0.843219220638275

00:00:59.150 --> 00:01:02.566 I think Yale on the El Cancer Center

NOTE Confidence: 0.843219220638275

00:01:02.566 --> 00:01:05.807 recognized that this is really a

NOTE Confidence: 0.843219220638275

00:01:05.807 --> 00:01:08.682 community effort and requires extensive

NOTE Confidence: 0.843219220638275

00:01:08.682 --> 00:01:10.626 collaboration networks to make

NOTE Confidence: 0.843219220638275

00:01:10.626 --> 00:01:13.615 this all work from start to finish.

NOTE Confidence: 0.843219220638275

00:01:13.620 --> 00:01:16.920 I you know that involves universities,

NOTE Confidence: 0.843219220638275

00:01:16.920 --> 00:01:17.470 governments,

NOTE Confidence: 0.843219220638275

00:01:17.470 --> 00:01:21.320 industry as well as investors in all,

NOTE Confidence: 0.843219220638275

00:01:21.320 --> 00:01:25.298 playing a role in this very

NOTE Confidence: 0.843219220638275

00:01:25.298 --> 00:01:26.624 important activity.

NOTE Confidence: 0.843219220638275

00:01:26.630 --> 00:01:27.290 So really,

NOTE Confidence: 0.843219220638275

00:01:27.290 --> 00:01:28.940 the goal of of today's

NOTE Confidence: 0.843219220638275

00:01:28.940 --> 00:01:31.059 session is is really twofold.

NOTE Confidence: 0.843219220638275

00:01:31.060 --> 00:01:33.965 It's for Yale really to continue to

NOTE Confidence: 0.843219220638275

00:01:33.965 --> 00:01:36.442 broaden that network in that community

NOTE Confidence: 0.843219220638275

00:01:36.442 --> 00:01:39.440 with whom they engage again to try to.

NOTE Confidence: 0.843219220638275

00:01:39.440 --> 00:01:40.336 You know,

NOTE Confidence: 0.843219220638275

00:01:40.336 --> 00:01:43.472 live out their passions of bringing promising

NOTE Confidence: 0.843219220638275

00:01:43.472 --> 00:01:46.359 and novel therapeutics to patients.

NOTE Confidence: 0.843219220638275

00:01:46.360 --> 00:01:48.562 But it's also importantly for you

NOTE Confidence: 0.843219220638275

00:01:48.562 --> 00:01:50.749 in the audience to learn about

NOTE Confidence: 0.843219220638275

00:01:50.749 --> 00:01:53.341 what Yale has to offer and how you

NOTE Confidence: 0.843219220638275

00:01:53.419 --> 00:01:56.037 might be able to become part of

NOTE Confidence: 0.843219220638275

00:01:56.037 --> 00:01:58.369 this community around the El Cancer

NOTE Confidence: 0.843219220638275

00:01:58.369 --> 00:02:00.787 Center and share that mission and

NOTE Confidence: 0.843219220638275

00:02:00.787 --> 00:02:03.358 that passion to do great things.

NOTE Confidence: 0.843219220638275

00:02:03.360 --> 00:02:05.696 So you know some of you may have

NOTE Confidence: 0.843219220638275

00:02:05.696 --> 00:02:08.038 already been involved in Cancer Center.

NOTE Confidence: 0.843219220638275

00:02:08.040 --> 00:02:10.371 Some of you this may be your

NOTE Confidence: 0.843219220638275

00:02:10.371 --> 00:02:11.037 first opportunity,

NOTE Confidence: 0.843219220638275

00:02:11.040 --> 00:02:13.050 but for both of those groups,

NOTE Confidence: 0.843219220638275

00:02:13.050 --> 00:02:15.598 we certainly hope it's not the last

NOTE Confidence: 0.843219220638275

00:02:15.598 --> 00:02:17.686 opportunity in this really catalyzes

NOTE Confidence: 0.843219220638275

00:02:17.686 --> 00:02:20.464 more engagement with the Cancer Center.

NOTE Confidence: 0.843219220638275

00:02:20.470 --> 00:02:23.025 Just in terms of some housekeeping issues,

NOTE Confidence: 0.843219220638275

00:02:23.030 --> 00:02:24.850 you know the audience in

NOTE Confidence: 0.843219220638275

00:02:24.850 --> 00:02:26.306 general will be muted,

NOTE Confidence: 0.843219220638275

00:02:26.310 --> 00:02:28.974 so you don't have to worry about the

NOTE Confidence: 0.843219220638275

00:02:28.974 --> 00:02:31.417 noise you're making in the background,

NOTE Confidence: 0.843219220638275

00:02:31.420 --> 00:02:32.341 but you know,

NOTE Confidence: 0.843219220638275

00:02:32.341 --> 00:02:35.440 we really do want this to be interactive,

NOTE Confidence: 0.843219220638275

00:02:35.440 --> 00:02:37.806 and the chat room will be live

NOTE Confidence: 0.843219220638275

00:02:37.806 --> 00:02:40.060 and that will be the vehicle

NOTE Confidence: 0.843219220638275

00:02:40.060 --> 00:02:42.370 with which you know we'd lash,

NOTE Confidence: 0.843219220638275

00:02:42.370 --> 00:02:44.195 like you to raise questions

NOTE Confidence: 0.843219220638275

00:02:44.195 --> 00:02:45.290 during the symposium,

NOTE Confidence: 0.843219220638275

00:02:45.290 --> 00:02:47.115 and particularly for panelists after

NOTE Confidence: 0.843219220638275

00:02:47.115 --> 00:02:49.263 here with panels, have to say,

NOTE Confidence: 0.843219220638275

00:02:49.263 --> 00:02:51.018 and your questions can pertain

NOTE Confidence: 0.843219220638275

00:02:51.018 --> 00:02:53.008 to their comments to there.

NOTE Confidence: 0.843219220638275

00:02:53.010 --> 00:02:55.548 Your questions can be, you know,

NOTE Confidence: 0.843219220638275

00:02:55.550 --> 00:02:58.088 really is broad as you like.

NOTE Confidence: 0.843219220638275

00:02:58.090 --> 00:02:59.102 So again,

NOTE Confidence: 0.843219220638275

00:02:59.102 --> 00:03:01.632 we would really encourage participation

NOTE Confidence: 0.843219220638275

00:03:01.632 --> 00:03:05.198 via the chat room that will be open

NOTE Confidence: 0.843219220638275

00:03:05.198 --> 00:03:07.650 and we will be monitoring this.

NOTE Confidence: 0.843219220638275

00:03:07.650 --> 00:03:09.828 Finally, this webinar will be recorded.

NOTE Confidence: 0.843219220638275

00:03:09.830 --> 00:03:12.614 I think I just saw a chat room

NOTE Confidence: 0.843219220638275

00:03:12.614 --> 00:03:15.486 question come up in that regard so

NOTE Confidence: 0.843219220638275

00:03:15.486 --> 00:03:18.117 that the webinars being recorded and

NOTE Confidence: 0.843219220638275

00:03:18.117 --> 00:03:20.829 will be available after the session.

NOTE Confidence: 0.843219220638275

00:03:20.830 --> 00:03:22.538 So with that introduction,

NOTE Confidence: 0.843219220638275

00:03:22.538 --> 00:03:26.330 I'd like to welcome our first speaker doctor,

NOTE Confidence: 0.843219220638275

00:03:26.330 --> 00:03:27.186 Charlie Fuchs.

NOTE Confidence: 0.843219220638275

00:03:27.186 --> 00:03:29.326 Doctor Fuchs is the Richard

NOTE Confidence: 0.843219220638275

00:03:29.326 --> 00:03:30.610 and Jonathan Sackler

NOTE Confidence: 0.845332145690918

00:03:30.685 --> 00:03:32.725 professor of medical Oncology

NOTE Confidence: 0.845332145690918

00:03:32.725 --> 00:03:34.765 and professor of chronic

NOTE Confidence: 0.845332145690918

00:03:34.765 --> 00:03:36.400 disease Epidemiology at Yale.

NOTE Confidence: 0.845332145690918

00:03:36.400 --> 00:03:39.672 He also is the director of the Yale

NOTE Confidence: 0.845332145690918

00:03:39.672 --> 00:03:42.086 Cancer Center and Physician and

NOTE Confidence: 0.845332145690918

00:03:42.086 --> 00:03:45.092 Chief of the Smilow Cancer Hospital.

NOTE Confidence: 0.845332145690918

00:03:45.100 --> 00:03:46.940 Charlie. Thanks very much.

NOTE Confidence: 0.871748745441437

00:03:47.530 --> 00:03:51.106 Tim, thank you and I want to welcome

NOTE Confidence: 0.871748745441437

00:03:51.106 --> 00:03:55.537 all of you to our second in this series.

NOTE Confidence: 0.871748745441437

00:03:55.540 --> 00:03:58.876 Yale engage cancer, which really has

NOTE Confidence: 0.871748745441437

00:03:58.876 --> 00:04:01.944 been an exciting opportunity for for

NOTE Confidence: 0.871748745441437

00:04:01.944 --> 00:04:04.952 us to reach out to a broad audience.

NOTE Confidence: 0.871748745441437

00:04:04.960 --> 00:04:07.580 And I want to just say that you know we're

NOTE Confidence: 0.871748745441437

00:04:07.649 --> 00:04:10.400 obviously engaged now and a global pandemic,

NOTE Confidence: 0.871748745441437

00:04:10.400 --> 00:04:12.376 which I think has to some extent been

NOTE Confidence: 0.871748745441437

00:04:12.376 --> 00:04:14.509 at the forefront of our attention

NOTE Confidence: 0.871748745441437

00:04:14.509 --> 00:04:16.479 and healthcare and drug development.

NOTE Confidence: 0.871748745441437

00:04:16.480 --> 00:04:19.045 But, you know, as we get past this and

NOTE Confidence: 0.871748745441437

00:04:19.045 --> 00:04:21.598 we're all looking forward to that point,

NOTE Confidence: 0.871748745441437

00:04:21.600 --> 00:04:24.096 we are reminded of the fact.

NOTE Confidence: 0.871748745441437

00:04:24.100 --> 00:04:26.150 That in the 21st century,

NOTE Confidence: 0.871748745441437

00:04:26.150 --> 00:04:28.610 cancer is really the great challenge

NOTE Confidence: 0.871748745441437

00:04:28.610 --> 00:04:30.250 that faces American medicine.

NOTE Confidence: 0.871748745441437

00:04:30.250 --> 00:04:32.858 It is the focus of so much work

NOTE Confidence: 0.871748745441437

00:04:32.858 --> 00:04:35.144 clinically in terms of support

NOTE Confidence: 0.871748745441437

00:04:35.144 --> 00:04:37.216 from government and philanthropy.

NOTE Confidence: 0.871748745441437

00:04:37.220 --> 00:04:40.090 And really the focus of of investment

NOTE Confidence: 0.871748745441437

00:04:40.090 --> 00:04:41.320 in drug development.

NOTE Confidence: 0.871748745441437

00:04:41.320 --> 00:04:44.600 And I think one thing we all share.

NOTE Confidence: 0.871748745441437

00:04:44.600 --> 00:04:47.470 We are a diverse group on this

NOTE Confidence: 0.871748745441437

00:04:47.470 --> 00:04:49.110 call from Academia, Pharma,

NOTE Confidence: 0.871748745441437

00:04:49.110 --> 00:04:49.520 biotech,

NOTE Confidence: 0.871748745441437

00:04:49.520 --> 00:04:51.570 the investment community where diverse.

NOTE Confidence: 0.871748745441437

00:04:51.570 --> 00:04:54.160 But I think what we all share

NOTE Confidence: 0.871748745441437

00:04:54.160 --> 00:04:56.509 in common is a commitment.

NOTE Confidence: 0.871748745441437

00:04:56.510 --> 00:04:58.856 To innovating in science and taking

NOTE Confidence: 0.871748745441437

00:04:58.856 --> 00:05:01.373 those discoveries and moving them into

NOTE Confidence: 0.871748745441437

00:05:01.373 --> 00:05:03.598 meaningful improvements in the treatment,

NOTE Confidence: 0.871748745441437

00:05:03.600 --> 00:05:06.096 early detection and prevention of cancer.

NOTE Confidence: 0.871748745441437

00:05:06.100 --> 00:05:07.640 You know, I'm pleased.

NOTE Confidence: 0.871748745441437

00:05:07.640 --> 00:05:10.427 As the director of the Yale Cancer

NOTE Confidence: 0.871748745441437

00:05:10.427 --> 00:05:13.627 Center to be at a place with an

NOTE Confidence: 0.871748745441437

00:05:13.627 --> 00:05:16.108 extraordinary legacy of Cancer Research.

NOTE Confidence: 0.871748745441437

00:05:16.110 --> 00:05:19.029 Really over the century in cell biology,

NOTE Confidence: 0.871748745441437

00:05:19.030 --> 00:05:20.281 genetics, chemical biology,

NOTE Confidence: 0.871748745441437

00:05:20.281 --> 00:05:21.949 pharmacology, immunobiology among others,

NOTE Confidence: 0.871748745441437

00:05:21.950 --> 00:05:23.614 and in clinical research.

NOTE Confidence: 0.871748745441437

00:05:23.614 --> 00:05:24.950 And, you know,

NOTE Confidence: 0.871748745441437

00:05:24.950 --> 00:05:27.710 as the NCI comprehensive Cancer Center

NOTE Confidence: 0.871748745441437

00:05:27.710 --> 00:05:30.356 for Connecticut in New England that we.

NOTE Confidence: 0.871748745441437

00:05:30.360 --> 00:05:32.784 We carry that responsibility with great

NOTE Confidence: 0.871748745441437

00:05:32.784 --> 00:05:35.270 pride beyond the great science we

NOTE Confidence: 0.871748745441437

00:05:35.270 --> 00:05:37.664 really proud of our clinical programs.

NOTE Confidence: 0.871748745441437

00:05:37.670 --> 00:05:38.354 In fact,

NOTE Confidence: 0.871748745441437

00:05:38.354 --> 00:05:40.748 the building I sit in now is

NOTE Confidence: 0.871748745441437

00:05:40.748 --> 00:05:43.350 the is Smilow Cancer hospital,

NOTE Confidence: 0.871748745441437

00:05:43.350 --> 00:05:45.380 which is celebrating its 10th

NOTE Confidence: 0.871748745441437

00:05:45.380 --> 00:05:47.004 anniversary as a center.

NOTE Confidence: 0.871748745441437

00:05:47.010 --> 00:05:49.798 Now that provides care to 48% of

NOTE Confidence: 0.871748745441437

00:05:49.798 --> 00:05:51.588 all newly diagnosed cancer patients

NOTE Confidence: 0.871748745441437

00:05:51.588 --> 00:05:54.017 in the state of Connecticut and

NOTE Confidence: 0.871748745441437

00:05:54.017 --> 00:05:56.337 patients well beyond that region.

NOTE Confidence: 0.871748745441437

00:05:56.340 --> 00:05:58.818 And with that has really been

NOTE Confidence: 0.871748745441437

00:05:58.818 --> 00:06:00.470 the laboratory of moving.

NOTE Confidence: 0.871748745441437

00:06:00.470 --> 00:06:02.805 Discovery in the laboratory into

NOTE Confidence: 0.871748745441437

00:06:02.805 --> 00:06:05.140 meaningful clinical treatments for cancer.

NOTE Confidence: 0.871748745441437

00:06:05.140 --> 00:06:06.074 In fact,

NOTE Confidence: 0.871748745441437

00:06:06.074 --> 00:06:08.409 one opportunity of great pride.

NOTE Confidence: 0.871748745441437

00:06:08.410 --> 00:06:12.146 I wanted to share is that this year,

NOTE Confidence: 0.871748745441437

00:06:12.150 --> 00:06:15.260 4 Yale lead clinical trials.

NOTE Confidence: 0.871748745441437

00:06:15.260 --> 00:06:18.102 Will have led to new approvals in

NOTE Confidence: 0.871748745441437

00:06:18.102 --> 00:06:20.418 the oncology space with the FDA.

NOTE Confidence: 0.871748745441437

00:06:20.420 --> 00:06:23.596 So not only we committed to great science,

NOTE Confidence: 0.871748745441437

00:06:23.600 --> 00:06:25.585 but we're committed to moving

NOTE Confidence: 0.871748745441437

00:06:25.585 --> 00:06:27.570 that science into the clinic.

NOTE Confidence: 0.871748745441437

00:06:27.570 --> 00:06:29.158 Ann into ultimate approval.

NOTE Confidence: 0.871748745441437

00:06:29.158 --> 00:06:31.540 Tim has assembled for today's forum.

NOTE Confidence: 0.871748745441437

00:06:31.540 --> 00:06:33.640 Just a panel of rock stars

NOTE Confidence: 0.871748745441437

00:06:33.640 --> 00:06:36.299 who not only do great science,

NOTE Confidence: 0.871748745441437

00:06:36.300 --> 00:06:38.115 but actually are committed to

NOTE Confidence: 0.871748745441437

00:06:38.115 --> 00:06:40.412 moving that science into the clinic

NOTE Confidence: 0.871748745441437

00:06:40.412 --> 00:06:42.890 through their own work and through

NOTE Confidence: 0.871748745441437

00:06:42.890 --> 00:06:44.602 partnerships by starting companies

NOTE Confidence: 0.871748745441437

00:06:44.602 --> 00:06:47.020 by working with pharma and biotech.

NOTE Confidence: 0.871748745441437

00:06:47.020 --> 00:06:49.628 And I think each of their stories are

NOTE Confidence: 0.871748745441437

00:06:49.628 --> 00:06:52.458 are really going to be interesting for us.

NOTE Confidence: 0.871748745441437

00:06:52.460 --> 00:06:54.160 I also want to particularly

NOTE Confidence: 0.871748745441437

00:06:54.160 --> 00:06:55.180 thank Josh Blinker,

NOTE Confidence: 0.871748745441437

00:06:55.180 --> 00:06:57.166 who's the Chief Executive Officer for

NOTE Confidence: 0.871748745441437

00:06:57.166 --> 00:06:59.600 locks on Cology for joining our panel,

NOTE Confidence: 0.871748745441437

00:06:59.600 --> 00:07:01.525 which I think really adds more to

NOTE Confidence: 0.871748745441437

00:07:01.525 --> 00:07:03.950 the richest of discussion of how you

NOTE Confidence: 0.871748745441437

00:07:03.950 --> 00:07:05.870 ultimately move drug development from

NOTE Confidence: 0.871748745441437

00:07:05.870 --> 00:07:08.100 science into ultimate care of patients.

NOTE Confidence: 0.871781468391418

00:07:08.100 --> 00:07:11.300 You know, one thing we want to do in these

NOTE Confidence: 0.871781468391418

00:07:11.382 --> 00:07:14.560 forms, and I say this is the second one.

NOTE Confidence: 0.871781468391418

00:07:14.560 --> 00:07:16.450 The first one was an immuno

NOTE Confidence: 0.871781468391418

00:07:16.450 --> 00:07:18.350 oncology and very well received.

NOTE Confidence: 0.871781468391418

00:07:18.350 --> 00:07:20.758 Is in this forum focused on a key

NOTE Confidence: 0.871781468391418

00:07:20.758 --> 00:07:23.260 aspect of cancer treatment research?

NOTE Confidence: 0.871781468391418

00:07:23.260 --> 00:07:25.528 Is really that it be conversational

NOTE Confidence: 0.871781468391418

00:07:25.528 --> 00:07:27.801 we want to. We want interaction

NOTE Confidence: 0.871781468391418

00:07:27.801 --> 00:07:29.686 not only between our panelists,

NOTE Confidence: 0.871781468391418

00:07:29.690 --> 00:07:33.083 but with all of you to answer your questions.

NOTE Confidence: 0.871781468391418

00:07:33.090 --> 00:07:35.631 And more importantly, we want this to

NOTE Confidence: 0.871781468391418

00:07:35.631 --> 00:07:38.009 be the beginning of a conversation.

NOTE Confidence: 0.871781468391418

00:07:38.010 --> 00:07:40.936 We hope that this stimulates new partnerships

NOTE Confidence: 0.871781468391418

00:07:40.936 --> 00:07:43.298 between our colleagues and Yale and you,

NOTE Confidence: 0.871781468391418

00:07:43.300 --> 00:07:45.190 because ultimately, as Tim indicated,

NOTE Confidence: 0.871781468391418

00:07:45.190 --> 00:07:47.682 really to make a difference in cancer

NOTE Confidence: 0.871781468391418

00:07:47.682 --> 00:07:49.370 treatment and Cancer Research.

NOTE Confidence: 0.871781468391418

00:07:49.370 --> 00:07:52.187 We have to be working together so you know.

NOTE Confidence: 0.871781468391418

00:07:52.190 --> 00:07:53.550 Please feel free to reach

NOTE Confidence: 0.871781468391418

00:07:53.550 --> 00:07:55.630 out to me to the panelists.

NOTE Confidence: 0.871781468391418

00:07:55.630 --> 00:07:57.295 My colleagues both during this

NOTE Confidence: 0.871781468391418

00:07:57.295 --> 00:07:59.284 meeting and after will remind you

NOTE Confidence: 0.871781468391418

00:07:59.284 --> 00:08:01.111 of that because we want to work

NOTE Confidence: 0.871781468391418

00:08:01.111 --> 00:08:03.138 together in this fight against cancer.

NOTE Confidence: 0.871781468391418

00:08:03.140 --> 00:08:03.704 So Tim,

NOTE Confidence: 0.871781468391418

00:08:03.704 --> 00:08:05.678 thank you for leading this and I

NOTE Confidence: 0.871781468391418

00:08:05.678 --> 00:08:07.838 look forward to an exciting forum.

NOTE Confidence: 0.871372401714325

00:08:12.530 --> 00:08:15.898 Thanks very much Charlie.

NOTE Confidence: 0.871372401714325

00:08:15.900 --> 00:08:18.954 So the slide you're seeing now

NOTE Confidence: 0.871372401714325

00:08:18.954 --> 00:08:21.660 reflects the agenda for today,

NOTE Confidence: 0.871372401714325

00:08:21.660 --> 00:08:25.638 so the way the session will be setup is

NOTE Confidence: 0.871372401714325

00:08:25.638 --> 00:08:29.747 will have brief 5 minute presentations by

NOTE Confidence: 0.871372401714325

00:08:29.747 --> 00:08:34.239 the presenters you see listed on the slide,

NOTE Confidence: 0.871372401714325

00:08:34.240 --> 00:08:37.439 followed by large period of time to

NOTE Confidence: 0.871372401714325

00:08:37.439 --> 00:08:40.110 enable discussion and question question

NOTE Confidence: 0.871372401714325

00:08:40.110 --> 00:08:43.145 and answer sessions with panelists.

NOTE Confidence: 0.871372401714325

00:08:43.150 --> 00:08:45.775 And again, we really encourage

NOTE Confidence: 0.871372401714325

00:08:45.775 --> 00:08:47.350 your participation here.

NOTE Confidence: 0.871372401714325

00:08:47.350 --> 00:08:50.698 You know our goal here is really to provide

NOTE Confidence: 0.871372401714325

00:08:50.698 --> 00:08:52.768 information that you're looking for,

NOTE Confidence: 0.871372401714325

00:08:52.770 --> 00:08:54.846 so your questions are really what

NOTE Confidence: 0.871372401714325

00:08:54.846 --> 00:08:57.610 we need to help deliver that to

NOTE Confidence: 0.871372401714325

00:08:57.610 --> 00:08:59.346 you in their presentations.

NOTE Confidence: 0.871372401714325

00:08:59.350 --> 00:09:01.285 Each of the speakers will

NOTE Confidence: 0.871372401714325

00:09:01.285 --> 00:09:03.220 talk a little bit about,

NOTE Confidence: 0.871372401714325

00:09:03.220 --> 00:09:05.155 you know what their course

NOTE Confidence: 0.871372401714325

00:09:05.155 --> 00:09:07.090 scientific expertise is an in,

NOTE Confidence: 0.871372401714325

00:09:07.090 --> 00:09:07.868 particularly what?

NOTE Confidence: 0.871372401714325

00:09:07.868 --> 00:09:10.591 What sort of questions they are trying

NOTE Confidence: 0.871372401714325

00:09:10.591 --> 00:09:13.380 to answer with the goal again of

NOTE Confidence: 0.871372401714325

00:09:13.380 --> 00:09:15.736 ultimate impacting cancer care in their

NOTE Confidence: 0.871372401714325

00:09:15.736 --> 00:09:18.305 presentations and in part of the comments.

NOTE Confidence: 0.871372401714325

00:09:18.310 --> 00:09:20.270 Again, they also talk about.

NOTE Confidence: 0.871372401714325

00:09:20.270 --> 00:09:22.958 Some of the ways they have collaborated,

NOTE Confidence: 0.871372401714325

00:09:22.960 --> 00:09:23.728 you know,

NOTE Confidence: 0.871372401714325

00:09:23.728 --> 00:09:25.648 to to accomplish what they've

NOTE Confidence: 0.871372401714325

00:09:25.648 --> 00:09:26.800 accomplished thus far,

NOTE Confidence: 0.871372401714325

00:09:26.800 --> 00:09:29.026 but also set up the stage for

NOTE Confidence: 0.871372401714325

00:09:29.026 --> 00:09:30.550 additional ideas about collaboration

NOTE Confidence: 0.871372401714325

00:09:30.550 --> 00:09:32.558 with the broader community.

NOTE Confidence: 0.871372401714325

00:09:32.560 --> 00:09:35.624 So the chat room will be open throughout.

NOTE Confidence: 0.871372401714325

00:09:35.630 --> 00:09:36.366 Please again,

NOTE Confidence: 0.871372401714325

00:09:36.366 --> 00:09:38.942 feel free to put your questions into

NOTE Confidence: 0.871372401714325

00:09:38.942 --> 00:09:41.595 the chat room and will be monitoring

NOTE Confidence: 0.871372401714325

00:09:41.595 --> 00:09:43.690 those and bring those forward.

NOTE Confidence: 0.871372401714325

00:09:43.690 --> 00:09:45.634 And again all speakers will start

NOTE Confidence: 0.871372401714325

00:09:45.634 --> 00:09:47.986 with about a 5 minute presentation

NOTE Confidence: 0.871372401714325

00:09:47.986 --> 00:09:50.446 before we move into discussion.

NOTE Confidence: 0.871372401714325

00:09:50.450 --> 00:09:54.098 And the question and answer session.

NOTE Confidence: 0.871372401714325

00:09:54.100 --> 00:09:55.363 So with that,

NOTE Confidence: 0.871372401714325

00:09:55.363 --> 00:09:58.310 I'd like to welcome our first presenter,

NOTE Confidence: 0.871372401714325

00:09:58.310 --> 00:10:00.983 Ranji Vendra. Angie.

NOTE Confidence: 0.871372401714325

00:10:00.983 --> 00:10:01.616 Great,

NOTE Confidence: 0.871372401714325

00:10:01.616 --> 00:10:02.249 thanks

NOTE Confidence: 0.859063804149628

00:10:02.250 --> 00:10:04.175 so much for having me today and

NOTE Confidence: 0.859063804149628

00:10:04.175 --> 00:10:06.129 thanks everyone for joining and I'm

NOTE Confidence: 0.859063804149628

00:10:06.129 --> 00:10:07.914 a professor of therapeutic radiology,

NOTE Confidence: 0.859063804149628

00:10:07.920 --> 00:10:10.440 the Yale School of Medicine and also Co.

NOTE Confidence: 0.859063804149628

00:10:10.440 --> 00:10:12.335 Director of Yale's Brain Tumor

NOTE Confidence: 0.859063804149628

00:10:12.335 --> 00:10:15.429 Center will go on to the next slide.

NOTE Confidence: 0.859063804149628

00:10:15.430 --> 00:10:17.886 So one thing I'd like to start with

NOTE Confidence: 0.859063804149628

00:10:17.886 --> 00:10:19.612 this Doctor, Fuchs mentioned is is.

NOTE Confidence: 0.859063804149628

00:10:19.612 --> 00:10:21.002 We have quite a presence

NOTE Confidence: 0.859063804149628

00:10:21.002 --> 00:10:22.179 along the translation.

NOTE Confidence: 0.859063804149628

00:10:22.180 --> 00:10:23.720 ULL research spectrum at yeah,

NOTE Confidence: 0.859063804149628

00:10:23.720 --> 00:10:26.555 and it's I've been here both as a medical

NOTE Confidence: 0.859063804149628

00:10:26.555 --> 00:10:28.924 student and is a 9th year into faculty

NOTE Confidence: 0.859063804149628

00:10:28.924 --> 00:10:31.388 and it's just a wonderful place to be.

NOTE Confidence: 0.859063804149628

00:10:31.390 --> 00:10:33.567 On one end we have disruptive cutting

NOTE Confidence: 0.859063804149628

00:10:33.567 --> 00:10:35.997 edge science and just just a few examples

NOTE Confidence: 0.859063804149628

00:10:35.997 --> 00:10:37.840 that you won't hear about today,

NOTE Confidence: 0.859063804149628

00:10:37.840 --> 00:10:39.375 but I wanted to highlight

NOTE Confidence: 0.859063804149628

00:10:39.375 --> 00:10:40.910 Jason Crawford and Seth Herzon.

NOTE Confidence: 0.859063804149628

00:10:40.910 --> 00:10:42.866 Finding gut bacteria that produce entirely

NOTE Confidence: 0.859063804149628

00:10:42.866 --> 00:10:45.209 new DNA damaging agents in the middle there.

NOTE Confidence: 0.859063804149628

00:10:45.210 --> 00:10:46.526 Mark Saltzman, Dawn Engelmann.

NOTE Confidence: 0.859063804149628

00:10:46.526 --> 00:10:47.842 Peter Glaser with nanoparticles

NOTE Confidence: 0.859063804149628

00:10:47.842 --> 00:10:49.419 and tumor targeting peptides.

NOTE Confidence: 0.859063804149628

00:10:49.420 --> 00:10:51.652 At the bottom there we have

NOTE Confidence: 0.859063804149628

00:10:51.652 --> 00:10:53.140 from Aaron Rings lab,

NOTE Confidence: 0.859063804149628

00:10:53.140 --> 00:10:55.930 an entirely new secrete immune checkpoint.

NOTE Confidence: 0.859063804149628

00:10:55.930 --> 00:10:58.270 But on the other side of the spectrum we

NOTE Confidence: 0.859063804149628

00:10:58.270 --> 00:11:00.777 also have we're known for pivotal studies

NOTE Confidence: 0.859063804149628

00:11:00.777 --> 00:11:02.820 and excellence in clinical research.

NOTE Confidence: 0.859063804149628

00:11:02.820 --> 00:11:04.136 Here is the study.

NOTE Confidence: 0.859063804149628

00:11:04.136 --> 00:11:05.781 Two studies showing Biden Patrylak

NOTE Confidence: 0.859063804149628

00:11:05.781 --> 00:11:06.750 and Roy herbs,

NOTE Confidence: 0.859063804149628

00:11:06.750 --> 00:11:08.788 and also work from Pat Larusso,

NOTE Confidence: 0.859063804149628

00:11:08.788 --> 00:11:10.778 really defining high level clinical

NOTE Confidence: 0.859063804149628

00:11:10.778 --> 00:11:11.574 trial designs.

NOTE Confidence: 0.859063804149628

00:11:11.580 --> 00:11:13.900 And behind and in parallel to all that,

NOTE Confidence: 0.859063804149628

00:11:13.900 --> 00:11:15.832 we have a very vibrant and active

NOTE Confidence: 0.859063804149628

00:11:15.832 --> 00:11:17.379 biotech and form a community.

NOTE Confidence: 0.859063804149628

00:11:17.380 --> 00:11:19.990 And it's really driven by the heart of it,

NOTE Confidence: 0.859063804149628

00:11:19.990 --> 00:11:22.318 of at the at the Yale Office of

NOTE Confidence: 0.859063804149628

00:11:22.318 --> 00:11:23.534 Collaborative Research and certainly

NOTE Confidence: 0.859063804149628

00:11:23.534 --> 00:11:25.536 can check out their website and you

NOTE Confidence: 0.859063804149628

00:11:25.536 --> 00:11:27.847 can see there just some logos of the

NOTE Confidence: 0.859063804149628

00:11:27.847 --> 00:11:29.332 companies that have been recently

NOTE Confidence: 0.859063804149628

00:11:29.332 --> 00:11:31.258 started and notable that some of

NOTE Confidence: 0.859063804149628

00:11:31.258 --> 00:11:32.501 these companies are associated

NOTE Confidence: 0.859063804149628

00:11:32.501 --> 00:11:34.419 with the papers that I just showed

NOTE Confidence: 0.859063804149628

00:11:34.419 --> 00:11:36.069 you earlier and will be talking

NOTE Confidence: 0.859063804149628

00:11:36.069 --> 00:11:37.823 about some of this work throughout

NOTE Confidence: 0.859063804149628

00:11:37.823 --> 00:11:40.421 the sessions today and then we'll

NOTE Confidence: 0.859063804149628

00:11:40.421 --> 00:11:42.989 move on to the next slide.

NOTE Confidence: 0.859063804149628

00:11:42.990 --> 00:11:45.645 So just a little bit of background about me,

NOTE Confidence: 0.859063804149628

00:11:45.650 --> 00:11:47.621 so I sort of also live in multiple nodes

NOTE Confidence: 0.859063804149628

00:11:47.621 --> 00:11:49.777 of that research translational spectrum.

NOTE Confidence: 0.859063804149628

00:11:49.780 --> 00:11:52.426 I'm P of an NIH funded DNA repair lab,

NOTE Confidence: 0.859063804149628

00:11:52.430 --> 00:11:54.790 and our lab is mainly focused on oncology,

NOTE Confidence: 0.859063804149628

00:11:54.790 --> 00:11:56.135 synthetic lethal drug screening with

NOTE Confidence: 0.859063804149628

00:11:56.135 --> 00:11:58.040 a focus on DNA repair metabolism,

NOTE Confidence: 0.859063804149628

00:11:58.040 --> 00:11:59.846 and we've been fortunate to publish a

NOTE Confidence: 0.859063804149628

00:11:59.846 --> 00:12:01.870 number of high impact stories recently.

NOTE Confidence: 0.859063804149628

00:12:01.870 --> 00:12:03.935 In some of those journals shown there.

NOTE Confidence: 0.859063804149628

00:12:03.940 --> 00:12:05.970 I'm also a radiation oncologist and is

NOTE Confidence: 0.859063804149628

00:12:05.970 --> 00:12:08.360 a Co director of the Brain Tumor Center.

NOTE Confidence: 0.859063804149628

00:12:08.360 --> 00:12:10.425 I'm involved in a lot of glioma

NOTE Confidence: 0.859063804149628

00:12:10.425 --> 00:12:11.015 clinical trials.

NOTE Confidence: 0.859063804149628

00:12:11.020 --> 00:12:12.766 These are some of the cooperative

NOTE Confidence: 0.859063804149628

00:12:12.766 --> 00:12:14.260 groups that we work with.

NOTE Confidence: 0.859063804149628

00:12:14.260 --> 00:12:16.100 Here at Yale and then sort of on

NOTE Confidence: 0.859063804149628

00:12:16.100 --> 00:12:17.768 the evenings and weekends and very

NOTE Confidence: 0.859063804149628

00:12:17.768 --> 00:12:19.490 much involved in the biotech world

NOTE Confidence: 0.859063804149628

00:12:19.544 --> 00:12:21.339 and an active biotech entrepreneur.

NOTE Confidence: 0.859063804149628

00:12:21.340 --> 00:12:23.139 Most notably some accompany you may be

NOTE Confidence: 0.859063804149628

00:12:23.139 --> 00:12:24.865 aware of a Cybex therapeutics which

NOTE Confidence: 0.859063804149628

00:12:24.865 --> 00:12:27.280 will be in the clinic early next year,

NOTE Confidence: 0.859063804149628

00:12:27.280 --> 00:12:28.978 will go to the next slide.

NOTE Confidence: 0.814541399478912

00:12:31.310 --> 00:12:33.678 So just wanted to give you really just

NOTE Confidence: 0.814541399478912

00:12:33.678 --> 00:12:36.044 two case studies of some of the work

NOTE Confidence: 0.814541399478912

00:12:36.044 --> 00:12:38.819 that we are doing and how we've been able

NOTE Confidence: 0.814541399478912

00:12:38.819 --> 00:12:41.004 to translate that from the bench into

NOTE Confidence: 0.814541399478912

00:12:41.004 --> 00:12:42.816 the bedside and really into biotech.

NOTE Confidence: 0.814541399478912

00:12:42.820 --> 00:12:44.745 This is a story that we recently

NOTE Confidence: 0.814541399478912

00:12:44.745 --> 00:12:45.967 published in Science Translational

NOTE Confidence: 0.814541399478912

00:12:45.967 --> 00:12:48.019 Medicine and then more recently in

NOTE Confidence: 0.814541399478912

00:12:48.019 --> 00:12:49.945 nature and Nature Genetics where we

NOTE Confidence: 0.814541399478912

00:12:49.945 --> 00:12:51.905 found that alqama tablets like ID H1

NOTE Confidence: 0.814541399478912

00:12:51.910 --> 00:12:53.728 mutations that induce two HG unexpectedly,

NOTE Confidence: 0.814541399478912

00:12:53.730 --> 00:12:54.850 causing our defector Bracken.

NOTE Confidence: 0.814541399478912

00:12:54.850 --> 00:12:56.250 This defect that causes PARP

NOTE Confidence: 0.814541399478912

00:12:56.250 --> 00:12:57.979 inhibitor sensitivity, and we made

NOTE Confidence: 0.814541399478912

00:12:57.979 --> 00:13:00.100 that discovery just a few years ago,

NOTE Confidence: 0.814541399478912

00:13:00.100 --> 00:13:01.670 and it's really collaborative effort.

NOTE Confidence: 0.814541399478912

00:13:01.670 --> 00:13:03.398 Across multiple labs here at Yale,

NOTE Confidence: 0.814541399478912

00:13:03.400 --> 00:13:04.261 including Peter Glaser,

NOTE Confidence: 0.814541399478912

00:13:04.261 --> 00:13:05.409 Moroccan Alan Stuffing Helene.

NOTE Confidence: 0.814541399478912

00:13:05.410 --> 00:13:07.730 But we've been fortunate to be able to

NOTE Confidence: 0.814541399478912

00:13:07.730 --> 00:13:09.450 rapidly translate that into the clinic,

NOTE Confidence: 0.814541399478912

00:13:09.450 --> 00:13:11.410 and these are some of the trials

NOTE Confidence: 0.814541399478912

00:13:11.410 --> 00:13:12.610 that are shown here.

NOTE Confidence: 0.814541399478912

00:13:12.610 --> 00:13:13.474 But most importantly,

NOTE Confidence: 0.814541399478912

00:13:13.474 --> 00:13:14.626 in the bottom right,

NOTE Confidence: 0.814541399478912

00:13:14.630 --> 00:13:15.875 those are the clinical trials

NOTE Confidence: 0.814541399478912

00:13:15.875 --> 00:13:17.525 that yell that really made these

NOTE Confidence: 0.814541399478912

00:13:17.525 --> 00:13:18.949 these clinical protocols possible,

NOTE Confidence: 0.814541399478912

00:13:18.950 --> 00:13:20.816 and we're now taking specimens from

NOTE Confidence: 0.814541399478912

00:13:20.816 --> 00:13:22.600 these trials and bringing them back

NOTE Confidence: 0.814541399478912

00:13:22.600 --> 00:13:24.520 into the lab to try to understand who

NOTE Confidence: 0.814541399478912

00:13:24.574 --> 00:13:26.380 responds and who doesn't and what's

NOTE Confidence: 0.814541399478912

00:13:26.380 --> 00:13:28.724 the molecular basis for that response.

NOTE Confidence: 0.814541399478912

00:13:28.724 --> 00:13:31.559 Patterns on the next slide.

NOTE Confidence: 0.814541399478912

00:13:31.560 --> 00:13:33.438 And just a second more recent

NOTE Confidence: 0.814541399478912

00:13:33.438 --> 00:13:35.350 story that we published in Nature,

NOTE Confidence: 0.814541399478912

00:13:35.350 --> 00:13:36.930 Communications on the metabolic front,

NOTE Confidence: 0.814541399478912

00:13:36.930 --> 00:13:39.121 we found that a phosphatase which is

NOTE Confidence: 0.814541399478912

00:13:39.121 --> 00:13:41.367 up regulated or mutated in a number

NOTE Confidence: 0.814541399478912

00:13:41.367 --> 00:13:42.953 of cancers, including brain tumors,

NOTE Confidence: 0.814541399478912

00:13:42.953 --> 00:13:44.237 actually has an epigenetic

NOTE Confidence: 0.814541399478912

00:13:44.237 --> 00:13:45.841 silencing function that had not

NOTE Confidence: 0.814541399478912

00:13:45.841 --> 00:13:46.726 been described previously.

NOTE Confidence: 0.814541399478912

00:13:46.730 --> 00:13:48.837 And this leads to silencing of Aki

NOTE Confidence: 0.814541399478912

00:13:48.837 --> 00:13:50.519 nad metabolism gene called NAPER,

NOTE Confidence: 0.814541399478912

00:13:50.520 --> 00:13:52.235 which essentially inactivates the press

NOTE Confidence: 0.814541399478912

00:13:52.235 --> 00:13:53.950 handlers salvage pathway shown there

NOTE Confidence: 0.814541399478912

00:13:53.995 --> 00:13:55.591 and leads to exquisite sensitivity to

NOTE Confidence: 0.814541399478912

00:13:55.591 --> 00:13:57.469 class of drugs called nampt inhibitors.

NOTE Confidence: 0.814541399478912

00:13:57.470 --> 00:13:59.324 Now these drugs have actually been

NOTE Confidence: 0.814541399478912

00:13:59.324 --> 00:14:00.950 tested extensively in clinical trials,

NOTE Confidence: 0.814541399478912

00:14:00.950 --> 00:14:02.046 and many of them.

NOTE Confidence: 0.814541399478912

00:14:02.046 --> 00:14:03.416 Have been shelved or stymied

NOTE Confidence: 0.814541399478912

00:14:03.416 --> 00:14:05.117 because of lack of good biomarkers,

NOTE Confidence: 0.814541399478912

00:14:05.120 --> 00:14:06.662 and we actually believe we have

NOTE Confidence: 0.814541399478912

00:14:06.662 --> 00:14:08.020 those biomarkers now and again.

NOTE Confidence: 0.814541399478912

00:14:08.020 --> 00:14:10.116 Leveraging the yellow CR in the Blatnik Fund,

NOTE Confidence: 0.814541399478912

00:14:10.120 --> 00:14:11.698 which we can get to later

NOTE Confidence: 0.814541399478912

00:14:11.698 --> 00:14:12.487 in Connecticut innovations.

NOTE Confidence: 0.814541399478912

00:14:12.490 --> 00:14:14.634 A local state backed VC and the pitch

NOTE Confidence: 0.814541399478912

00:14:14.634 --> 00:14:15.910 program developed by Craig Cruz,

NOTE Confidence: 0.814541399478912

00:14:15.910 --> 00:14:17.744 we've been able to start a company,

NOTE Confidence: 0.814541399478912

00:14:17.750 --> 00:14:19.298 developed a new class of nampt

NOTE Confidence: 0.814541399478912

00:14:19.298 --> 00:14:20.907 inhibitors and we hope to bring

NOTE Confidence: 0.814541399478912

00:14:20.907 --> 00:14:22.479 those in the clinical trials soon.

NOTE Confidence: 0.814541399478912

00:14:22.480 --> 00:14:23.182 So with that,

NOTE Confidence: 0.814541399478912

00:14:23.182 --> 00:14:24.820 that's just the flavor of what we

NOTE Confidence: 0.814541399478912

00:14:24.876 --> 00:14:26.580 do and really looking forward to

NOTE Confidence: 0.814541399478912

00:14:26.580 --> 00:14:28.269 the discussion today and thank you.

NOTE Confidence: 0.777699947357178

00:14:36.790 --> 00:14:41.100 Thanks, Ron G much appreciated.

NOTE Confidence: 0.777699947357178

00:14:41.100 --> 00:14:42.850 Will save again. Collect questions

NOTE Confidence: 0.777699947357178

00:14:42.850 --> 00:14:43.900 throughout the presentation.

NOTE Confidence: 0.777699947357178

00:14:43.900 --> 00:14:46.796 So now we'd like to move on to

NOTE Confidence: 0.777699947357178

00:14:46.796 --> 00:14:48.448 the presentation of CD10 CD.

NOTE Confidence: 0.904331922531128

00:15:21.070 --> 00:15:22.074 Can you please turn on

NOTE Confidence: 0.904331922531128

00:15:22.074 --> 00:15:23.080 your video if you're able.

NOTE Confidence: 0.849910497665405

00:15:47.120 --> 00:15:51.090 Siri, can you unmute and open your video?

NOTE Confidence: 0.842703580856323

00:15:53.680 --> 00:15:55.182 Tim, maybe we could advance

NOTE Confidence: 0.842703580856323

00:15:55.182 --> 00:15:57.030 to Craig slides and give City

NOTE Confidence: 0.842703580856323

00:15:57.096 --> 00:15:59.530 a chance and we can come back a city in a

NOTE Confidence: 0.842703580856323

00:15:59.530 --> 00:16:01.828 moment. Sounds like a good idea.

NOTE Confidence: 0.842703580856323

00:16:01.830 --> 00:16:04.974 So again, we'll come back to see Chan,

NOTE Confidence: 0.842703580856323

00:16:04.980 --> 00:16:08.868 but let's move on to Craig Cruise while

NOTE Confidence: 0.842703580856323

00:16:08.868 --> 00:16:12.730 we try to workout CDs kinks. Great

NOTE Confidence: 0.783548891544342

00:16:12.730 --> 00:16:17.093 by the way I go. Thanks Tim.

NOTE Confidence: 0.783548891544342

00:16:17.093 --> 00:16:19.837 So I am the John C Malone professor

NOTE Confidence: 0.783548891544342

00:16:19.837 --> 00:16:22.084 of Emccd and joint appointment

NOTE Confidence: 0.783548891544342

00:16:22.084 --> 00:16:24.814 in pharmacology as well as in

NOTE Confidence: 0.783548891544342

00:16:24.896 --> 00:16:27.242 chemistry and I'll be talking a

NOTE Confidence: 0.783548891544342

00:16:27.242 --> 00:16:30.016 bit about my role in running the

NOTE Confidence: 0.783548891544342

00:16:30.016 --> 00:16:32.026 Yale Center for Electro Discovery,

NOTE Confidence: 0.783548891544342

00:16:32.030 --> 00:16:35.806 which is the small molecule an RNA eye

NOTE Confidence: 0.783548891544342

00:16:35.806 --> 00:16:38.637 screening center that is here at yeah.

NOTE Confidence: 0.783548891544342

00:16:38.640 --> 00:16:40.700 Excite please.

NOTE Confidence: 0.783548891544342

00:16:40.700 --> 00:16:43.724 So I've been here for 25 years working at

NOTE Confidence: 0.783548891544342

00:16:43.724 --> 00:16:46.746 the interface of chemistry and biology.

NOTE Confidence: 0.783548891544342

00:16:46.750 --> 00:16:48.362 When I started here,

NOTE Confidence: 0.783548891544342

00:16:48.362 --> 00:16:50.780 it was primarily focused on motive,

NOTE Confidence: 0.783548891544342

00:16:50.780 --> 00:16:52.790 action studies of natural products,

NOTE Confidence: 0.783548891544342

00:16:52.790 --> 00:16:55.208 and this is 1 molecule that

NOTE Confidence: 0.783548891544342

00:16:55.208 --> 00:16:56.820 came from those efforts.

NOTE Confidence: 0.783548891544342

00:16:56.820 --> 00:17:00.036 It is a derivative of a microbial Organism,

NOTE Confidence: 0.783548891544342

00:17:00.040 --> 00:17:01.772 derived Organism, excuse me,

NOTE Confidence: 0.783548891544342

00:17:01.772 --> 00:17:03.937 compound that is a antitumor

NOTE Confidence: 0.783548891544342

00:17:03.937 --> 00:17:05.690 compound that is a producer,

NOTE Confidence: 0.783548891544342

00:17:05.690 --> 00:17:08.371 monitor and so my lab identify the

NOTE Confidence: 0.783548891544342

00:17:08.371 --> 00:17:10.929 mode of action of this molecule,

NOTE Confidence: 0.783548891544342

00:17:10.930 --> 00:17:12.554 did some additional chemistry.

NOTE Confidence: 0.783548891544342

00:17:12.554 --> 00:17:14.990 I found it my first company.

NOTE Confidence: 0.783548891544342

00:17:14.990 --> 00:17:21.406 Pretty Alex 17 years ago that turned this.

NOTE Confidence: 0.783548891544342

00:17:21.410 --> 00:17:24.679 Yale finding into a drug candidate and

NOTE Confidence: 0.783548891544342

00:17:24.679 --> 00:17:27.808 this was approved for relapsed refractory

NOTE Confidence: 0.783548891544342

00:17:27.808 --> 00:17:31.090 multiple myeloma in 20 twenty 2012.

NOTE Confidence: 0.783548891544342

00:17:31.090 --> 00:17:31.481 Pretty,

NOTE Confidence: 0.783548891544342

00:17:31.481 --> 00:17:33.827 Alex was purchased by Onyx and

NOTE Confidence: 0.783548891544342

00:17:33.827 --> 00:17:35.787 ultimately by Amgen and Kyprolis

NOTE Confidence: 0.783548891544342

00:17:35.787 --> 00:17:38.286 now does over a billion dollars in

NOTE Confidence: 0.783548891544342

00:17:38.286 --> 00:17:40.838 sales for again refract refractory

NOTE Confidence: 0.783548891544342

00:17:40.838 --> 00:17:42.428 relapsed multiple myeloma,

NOTE Confidence: 0.783548891544342

00:17:42.430 --> 00:17:45.412 but since then next slide I've been

NOTE Confidence: 0.783548891544342

00:17:45.412 --> 00:17:48.308 working on the flip side of that.

NOTE Confidence: 0.783548891544342

00:17:48.310 --> 00:17:49.990 Not blocking degradation but

NOTE Confidence: 0.783548891544342

00:17:49.990 --> 00:17:51.250 actually inducing degradation,

NOTE Confidence: 0.783548891544342

00:17:51.250 --> 00:17:54.220 and so my last played a key role in

NOTE Confidence: 0.783548891544342

00:17:54.220 --> 00:17:56.738 developing this new field of targeted

NOTE Confidence: 0.783548891544342

00:17:56.738 --> 00:17:58.853 protein degradation where we can

NOTE Confidence: 0.783548891544342

00:17:58.929 --> 00:18:01.799 through induced proximity drag proteins.

NOTE Confidence: 0.783548891544342

00:18:01.800 --> 00:18:04.920 To the quality control machinery of the cell,

NOTE Confidence: 0.783548891544342

00:18:04.920 --> 00:18:06.456 inducing its degradation.

NOTE Confidence: 0.783548891544342

00:18:06.456 --> 00:18:11.299 And I've been working on it for 20 years now,

NOTE Confidence: 0.783548891544342

00:18:11.300 --> 00:18:13.939 but a key part of this transition

NOTE Confidence: 0.783548891544342

00:18:13.939 --> 00:18:16.142 in terms of translational impact

NOTE Confidence: 0.783548891544342

00:18:16.142 --> 00:18:19.106 was the founding of our Venice

NOTE Confidence: 0.783548891544342

00:18:19.106 --> 00:18:21.690 here in New Haven in 2013.

NOTE Confidence: 0.783548891544342

00:18:21.690 --> 00:18:24.714 This is from their IPO in 2018.

NOTE Confidence: 0.783548891544342

00:18:24.720 --> 00:18:26.885 They now have two clinical

NOTE Confidence: 0.783548891544342

00:18:26.885 --> 00:18:28.184 candidates in trials,

NOTE Confidence: 0.783548891544342

00:18:28.190 --> 00:18:31.214 one for breast and went for prostate,

NOTE Confidence: 0.783548891544342

00:18:31.220 --> 00:18:32.084 and Moreover,

NOTE Confidence: 0.783548891544342

00:18:32.084 --> 00:18:34.676 at least for their leading one,

NOTE Confidence: 0.783548891544342

00:18:34.680 --> 00:18:37.320 the prostate enable been able to

NOTE Confidence: 0.783548891544342

00:18:37.320 --> 00:18:39.080 demonstrate that this technology.

NOTE Confidence: 0.783548891544342

00:18:39.080 --> 00:18:41.642 Works in humans with respect to

NOTE Confidence: 0.783548891544342

00:18:41.642 --> 00:18:43.350 actually targeting and decreasing

NOTE Confidence: 0.783548891544342

00:18:43.421 --> 00:18:45.457 surrogate markers for prostate,

NOTE Confidence: 0.783548891544342

00:18:45.460 --> 00:18:48.718 and so those quite quite exciting.

NOTE Confidence: 0.783548891544342

00:18:48.720 --> 00:18:51.072 And I continue to play a role

NOTE Confidence: 0.783548891544342

00:18:51.072 --> 00:18:52.830 in advising our business,

NOTE Confidence: 0.783548891544342

00:18:52.830 --> 00:18:55.486 but I wanted to spend just a little

NOTE Confidence: 0.783548891544342

00:18:55.486 --> 00:18:57.781 bit of time talking about another

NOTE Confidence: 0.783548891544342

00:18:57.781 --> 00:19:01.060 hat that I wear on the next slide.

NOTE Confidence: 0.783548891544342

00:19:01.060 --> 00:19:03.304 And that is the Yale Center

NOTE Confidence: 0.783548891544342

00:19:03.304 --> 00:19:04.426 for Molecular Discovery,

NOTE Confidence: 0.783548891544342

00:19:04.430 --> 00:19:06.300 founded in 17 years ago.

NOTE Confidence: 0.783548891544342

00:19:06.300 --> 00:19:08.680 And this is the really the nexos

NOTE Confidence: 0.783548891544342

00:19:08.680 --> 00:19:10.166 of translational research at

NOTE Confidence: 0.783548891544342

00:19:10.166 --> 00:19:12.186 Yale with respect to developing

NOTE Confidence: 0.783548891544342

00:19:12.186 --> 00:19:13.398 assays screening compounds,

NOTE Confidence: 0.783548891544342

00:19:13.400 --> 00:19:16.920 you can go on to the next slide.

NOTE Confidence: 0.783548891544342

00:19:16.920 --> 00:19:19.167 And so we have the resources where

NOTE Confidence: 0.783548891544342

00:19:19.167 --> 00:19:21.480 we have small molecule compounds.

NOTE Confidence: 0.783548891544342

00:19:21.480 --> 00:19:24.140 We have RNA Sir and a collection,

NOTE Confidence: 0.783548891544342

00:19:24.140 --> 00:19:27.808 so you can go back to sleep.

NOTE Confidence: 0.783548891544342

00:19:27.810 --> 00:19:31.670 Now forward and so we have a

NOTE Confidence: 0.783548891544342

00:19:31.670 --> 00:19:34.424 team of professionals that are

NOTE Confidence: 0.783548891544342

00:19:34.424 --> 00:19:37.179 helping the Yale researchers to

NOTE Confidence: 0.783548891544342

00:19:37.179 --> 00:19:39.381 translate their academic findings

NOTE Confidence: 0.783548891544342

00:19:39.381 --> 00:19:42.136 into assay and thin screening.

NOTE Confidence: 0.783548891544342

00:19:42.140 --> 00:19:43.210 Small molecules.

NOTE Confidence: 0.783548891544342

00:19:43.210 --> 00:19:46.420 As I using robotics and then

NOTE Confidence: 0.783548891544342

00:19:46.420 --> 00:19:49.340 helping to interpret those assays

NOTE Confidence: 0.783548891544342

00:19:49.340 --> 00:19:52.838 and those results with the whole

NOTE Confidence: 0.783548891544342

00:19:52.838 --> 00:19:55.909 point of coming up with impact.

NOTE Confidence: 0.844229400157928

00:19:55.910 --> 00:19:58.700 And that is defined by

NOTE Confidence: 0.844229400157928

00:19:58.700 --> 00:20:01.490 papers as defined by grants.

NOTE Confidence: 0.844229400157928

00:20:01.490 --> 00:20:04.094 But it's also defined by starting companies,

NOTE Confidence: 0.844229400157928

00:20:04.100 --> 00:20:06.158 so where we stand now is that

NOTE Confidence: 0.844229400157928

00:20:06.158 --> 00:20:08.200 we have the infrastructure.

NOTE Confidence: 0.844229400157928

00:20:08.200 --> 00:20:11.184 We have the network, we have the resources,

NOTE Confidence: 0.844229400157928

00:20:11.190 --> 00:20:14.150 but we want to reach out to establish

NOTE Confidence: 0.844229400157928

00:20:14.150 --> 00:20:16.778 more industrial partners to help guide us.

NOTE Confidence: 0.844229400157928

00:20:16.780 --> 00:20:18.994 Help prioritize, help help direct where

NOTE Confidence: 0.844229400157928

00:20:18.994 --> 00:20:21.260 we should be focusing our efforts.

NOTE Confidence: 0.844229400157928

00:20:21.260 --> 00:20:23.498 You know what are the unmet

NOTE Confidence: 0.844229400157928

00:20:23.498 --> 00:20:24.617 needs an industry?

NOTE Confidence: 0.844229400157928

00:20:24.620 --> 00:20:26.485 What are the new indications

NOTE Confidence: 0.844229400157928

00:20:26.485 --> 00:20:28.350 that we're not aware of,

NOTE Confidence: 0.844229400157928

00:20:28.350 --> 00:20:30.588 and so we're really like to

NOTE Confidence: 0.844229400157928

00:20:30.588 --> 00:20:32.080 serve as a bridge?

NOTE Confidence: 0.844229400157928

00:20:32.080 --> 00:20:33.968 If you will, between?

NOTE Confidence: 0.844229400157928

00:20:33.968 --> 00:20:36.328 The diverse collection of cancer

NOTE Confidence: 0.844229400157928

00:20:36.328 --> 00:20:39.016 researchers at Yale and the greater World.

NOTE Confidence: 0.844229400157928

00:20:39.020 --> 00:20:39.938 And so.

NOTE Confidence: 0.844229400157928

00:20:39.938 --> 00:20:40.856 With that,

NOTE Confidence: 0.844229400157928

00:20:40.856 --> 00:20:44.429 I'll stop and turn it back to Tim.

NOTE Confidence: 0.760839998722076

00:20:49.540 --> 00:20:50.742 Thanks Greg.

NOTE Confidence: 0.760839998722076

00:20:50.742 --> 00:20:54.949 So I think we have City chance.

NOTE Confidence: 0.760839998722076

00:20:54.950 --> 00:20:56.174 Logistics worked out.

NOTE Confidence: 0.760839998722076

00:20:56.174 --> 00:20:58.622 An will go back to City

NOTE Confidence: 0.760839998722076

00:20:58.622 --> 00:21:00.610 Chance Presentation, City.

NOTE Confidence: 0.847268036433628

00:21:01.180 --> 00:21:05.808 Can everyone hear me?

NOTE Confidence: 0.847268036433628

00:21:05.808 --> 00:21:11.740 Good OK thanks. Next slide.

NOTE Confidence: 0.847268036433628

00:21:11.740 --> 00:21:16.770 So are my laps focus by Mary.

NOTE Confidence: 0.847268036433628

00:21:16.770 --> 00:21:19.642 Is cancer email therapy and we are trying

NOTE Confidence: 0.847268036433628

00:21:19.642 --> 00:21:22.737 to use multiple approach to improve

NOTE Confidence: 0.847268036433628

00:21:22.737 --> 00:21:25.607 cancer immunotherapy which is currently.

NOTE Confidence: 0.847268036433628

00:21:25.610 --> 00:21:28.014 A transformative therapeutic modality,

NOTE Confidence: 0.847268036433628

00:21:28.014 --> 00:21:32.594 but still made a having major setbacks by

NOTE Confidence: 0.847268036433628

00:21:32.594 --> 00:21:36.004 more than 70% of patients not responding.

NOTE Confidence: 0.847268036433628

00:21:36.004 --> 00:21:40.369 So the first program for us is to

NOTE Confidence: 0.847268036433628

00:21:40.369 --> 00:21:42.645 discover novel immune checkpoints

NOTE Confidence: 0.847268036433628

00:21:42.645 --> 00:21:45.870 or T cell regulators that are.

NOTE Confidence: 0.847268036433628

00:21:45.870 --> 00:21:48.691 Are important for the team might be

NOTE Confidence: 0.847268036433628

00:21:48.691 --> 00:21:51.548 environment and in order to overcome

NOTE Confidence: 0.847268036433628

00:21:51.548 --> 00:21:53.640 the current therapy resistance.

NOTE Confidence: 0.847268036433628

00:21:53.640 --> 00:21:56.250 An once those new molecules will

NOTE Confidence: 0.847268036433628

00:21:56.250 --> 00:21:59.555 discover we will be able to identify

NOTE Confidence: 0.847268036433628

00:21:59.555 --> 00:22:02.513 the therapeutic strategy for them and

NOTE Confidence: 0.847268036433628

00:22:02.513 --> 00:22:05.732 then the second program to engineer

NOTE Confidence: 0.847268036433628

00:22:05.732 --> 00:22:08.921 immune cells themselves like car T

NOTE Confidence: 0.847268036433628

00:22:08.921 --> 00:22:11.676 cells and develop therapeutic strategy

NOTE Confidence: 0.847268036433628

00:22:11.676 --> 00:22:15.394 to infuse those cells back to patients

NOTE Confidence: 0.847268036433628

00:22:15.394 --> 00:22:18.238 and as a cell therapy modality.

NOTE Confidence: 0.847268036433628

00:22:18.240 --> 00:22:20.816 In the final one would be program

NOTE Confidence: 0.847268036433628

00:22:20.816 --> 00:22:23.338 based on cell and gene therapy,

NOTE Confidence: 0.847268036433628

00:22:23.340 --> 00:22:26.468 and in this case we call it Meiji,

NOTE Confidence: 0.847268036433628

00:22:26.470 --> 00:22:31.160 which I'll elaborate later on next slide.

NOTE Confidence: 0.847268036433628

00:22:31.160 --> 00:22:34.758 So Major is a new class of

NOTE Confidence: 0.847268036433628

00:22:34.758 --> 00:22:35.786 cancer immunotherapy.

NOTE Confidence: 0.847268036433628

00:22:35.790 --> 00:22:39.894 We believe even though he said early stage,

NOTE Confidence: 0.847268036433628

00:22:39.900 --> 00:22:42.465 it is coin as Multiplex

NOTE Confidence: 0.847268036433628

00:22:42.465 --> 00:22:44.517 activation of endogenous genes,

NOTE Confidence: 0.847268036433628

00:22:44.520 --> 00:22:47.915 as immunotherapy may I maging so we

NOTE Confidence: 0.847268036433628

00:22:47.915 --> 00:22:52.099 think this is a new strategy as compared

NOTE Confidence: 0.847268036433628

00:22:52.099 --> 00:22:55.320 to order over the existing ones,

NOTE Confidence: 0.847268036433628

00:22:55.320 --> 00:22:56.748 because cancer cells.

NOTE Confidence: 0.847268036433628

00:22:56.748 --> 00:23:00.080 They have a lot of signals that

NOTE Confidence: 0.847268036433628

00:23:00.174 --> 00:23:03.049 are considered non self meaning.

NOTE Confidence: 0.847268036433628

00:23:03.050 --> 00:23:04.638 Mutations that distinguish them

NOTE Confidence: 0.847268036433628

00:23:04.638 --> 00:23:06.226 from the normal cells.

NOTE Confidence: 0.847268036433628

00:23:06.230 --> 00:23:09.009 But in order to find and kill

NOTE Confidence: 0.847268036433628

00:23:09.009 --> 00:23:10.200 the cancer cells,

NOTE Confidence: 0.847268036433628

00:23:10.200 --> 00:23:12.874 we better off amplify such signals in

NOTE Confidence: 0.847268036433628

00:23:12.874 --> 00:23:16.177 one of the most efficient way we did.

NOTE Confidence: 0.847268036433628

00:23:16.180 --> 00:23:18.406 Figure out is by crisper activation,

NOTE Confidence: 0.847268036433628

00:23:18.410 --> 00:23:21.018 just crank up all the non self signal

NOTE Confidence: 0.847268036433628

00:23:21.018 --> 00:23:23.789 so the immune system can see the

NOTE Confidence: 0.847268036433628

00:23:23.789 --> 00:23:26.267 cancer cells clearly and then come

NOTE Confidence: 0.847268036433628

00:23:26.267 --> 00:23:28.445 to destroy the cancer cells and

NOTE Confidence: 0.847268036433628

00:23:28.445 --> 00:23:32.248 take off the new cycle next slide.

NOTE Confidence: 0.847268036433628

00:23:32.250 --> 00:23:34.658 And then we have done a few proof

NOTE Confidence: 0.847268036433628

00:23:34.658 --> 00:23:36.376 of principle experiments and so

NOTE Confidence: 0.847268036433628

00:23:36.376 --> 00:23:38.805 that these works quite well in the

NOTE Confidence: 0.847268036433628

00:23:38.879 --> 00:23:40.979 preclinical models across multiple

NOTE Confidence: 0.847268036433628

00:23:40.979 --> 00:23:43.395 cancer types, including a pressman,

NOTE Confidence: 0.847268036433628

00:23:43.395 --> 00:23:45.215 normal pancreatic cancer types.

NOTE Confidence: 0.847268036433628

00:23:45.220 --> 00:23:45.700 And.

NOTE Confidence: 0.847268036433628

00:23:45.700 --> 00:23:48.580 We hope to continue to translate

NOTE Confidence: 0.847268036433628

00:23:48.580 --> 00:23:51.277 these knew fair treatment modalities

NOTE Confidence: 0.847268036433628

00:23:51.277 --> 00:23:55.337 and use them either alone or in

NOTE Confidence: 0.847268036433628

00:23:55.337 --> 00:23:58.547 combination with what already available.

NOTE Confidence: 0.847268036433628

00:23:58.550 --> 00:23:59.080 Thanks.

NOTE Confidence: 0.882630407810211

00:24:04.870 --> 00:24:07.420 I guess that he. Next,

NOTE Confidence: 0.882630407810211

00:24:07.420 --> 00:24:10.300 we'll go to Offei Rogers and

NOTE Confidence: 0.859200593303232

00:24:10.404 --> 00:24:12.588 listen to the presentation

NOTE Confidence: 0.859200593303232

00:24:12.588 --> 00:24:14.710 of her work, right?

NOTE Confidence: 0.888866543769836

00:24:16.750 --> 00:24:18.736 Thank you Tim. So I am an

NOTE Confidence: 0.888866543769836

00:24:18.736 --> 00:24:19.840 associate professor in the

NOTE Confidence: 0.888866543769836

00:24:19.909 --> 00:24:22.044 Department of Therapeutic Radiology and

NOTE Confidence: 0.888866543769836

00:24:22.044 --> 00:24:24.512 my lab focuses on understanding DNA

NOTE Confidence: 0.888866543769836

00:24:24.512 --> 00:24:26.672 damage response and so I like to tell

NOTE Confidence: 0.888866543769836

00:24:26.672 --> 00:24:29.351 you a little bit about how we've been

NOTE Confidence: 0.888866543769836

00:24:29.351 --> 00:24:31.560 using that interest to develop a novel.

NOTE Confidence: 0.906250298023224

00:24:34.340 --> 00:24:35.620 Next slide, please.

NOTE Confidence: 0.842569947242737

00:24:37.900 --> 00:24:39.985 So Uncle Gene Amplification is

NOTE Confidence: 0.842569947242737

00:24:39.985 --> 00:24:42.501 considered to play major roles not

NOTE Confidence: 0.842569947242737

00:24:42.501 --> 00:24:44.667 only in the formation of cancers.

NOTE Confidence: 0.842569947242737

00:24:44.670 --> 00:24:46.258 By amplifying genes that

NOTE Confidence: 0.842569947242737

00:24:46.258 --> 00:24:47.449 provide glued advantages,

NOTE Confidence: 0.842569947242737

00:24:47.450 --> 00:24:49.440 such as increased cell proliferation,

NOTE Confidence: 0.842569947242737

00:24:49.440 --> 00:24:51.044 angiogenesis, and decreased apoptosis,

NOTE Confidence: 0.842569947242737

00:24:51.044 --> 00:24:53.899 but also in later progression to states

NOTE Confidence: 0.842569947242737

00:24:53.899 --> 00:24:56.239 of that accesses by amplifying genes

NOTE Confidence: 0.842569947242737

00:24:56.239 --> 00:24:58.199 that facilitate migration and invasion.

NOTE Confidence: 0.842569947242737

00:24:58.200 --> 00:25:00.622 So it's not a surprise that gene

NOTE Confidence: 0.842569947242737

00:25:00.622 --> 00:25:02.167 amplification has become an

NOTE Confidence: 0.842569947242737

00:25:02.167 --> 00:25:04.382 important therapeutic target in the

NOTE Confidence: 0.842569947242737

00:25:04.382 --> 00:25:06.154 development of precision medicine,

NOTE Confidence: 0.842569947242737

00:25:06.160 --> 00:25:08.165 and so the current drug

NOTE Confidence: 0.842569947242737

00:25:08.165 --> 00:25:10.170 development strategy has been to.

NOTE Confidence: 0.842569947242737

00:25:10.170 --> 00:25:12.035 Target the overexpress protein products

NOTE Confidence: 0.842569947242737

00:25:12.035 --> 00:25:15.070 that are produced due to gene amplification,

NOTE Confidence: 0.842569947242737

00:25:15.070 --> 00:25:17.506 which has resulted in major drug

NOTE Confidence: 0.842569947242737

00:25:17.510 --> 00:25:19.556 breakthroughs such as Herceptin and

NOTE Confidence: 0.842569947242737

00:25:19.556 --> 00:25:21.188 other tyrosine kinase inhibitors,

NOTE Confidence: 0.842569947242737

00:25:21.190 --> 00:25:25.270 and so our lab as I said to you before,

NOTE Confidence: 0.842569947242737

00:25:25.270 --> 00:25:27.305 is really interested in understanding

NOTE Confidence: 0.842569947242737

00:25:27.305 --> 00:25:28.526 DNA damage response,

NOTE Confidence: 0.842569947242737

00:25:28.530 --> 00:25:31.372 and we have taken an approach to

NOTE Confidence: 0.842569947242737

00:25:31.372 --> 00:25:33.501 manipulate the DNA damage response

NOTE Confidence: 0.842569947242737

00:25:33.501 --> 00:25:37.284 network in order to find a novel way to

NOTE Confidence: 0.842569947242737

00:25:37.284 --> 00:25:40.396 treat these types of cancers so the cell.

NOTE Confidence: 0.842569947242737

00:25:40.400 --> 00:25:45.125 Has already in place DNA damage response.

NOTE Confidence: 0.842569947242737

00:25:45.130 --> 00:25:48.034 Mechanisms in order to conserve genomic

NOTE Confidence: 0.842569947242737

00:25:48.034 --> 00:25:51.777 integrity and our goal is to hope to

NOTE Confidence: 0.842569947242737

00:25:51.777 --> 00:25:53.927 manipulate this network by forcing

NOTE Confidence: 0.842569947242737

00:25:53.927 --> 00:25:56.352 cancer cells to go towards pathway

NOTE Confidence: 0.842569947242737

00:25:56.352 --> 00:25:59.200 on the pathway on the right following

NOTE Confidence: 0.842569947242737

00:25:59.200 --> 00:26:01.990 excessive DNA damage to activate a

NOTE Confidence: 0.842569947242737

00:26:01.990 --> 00:26:05.025 pop ptosis as opposed to normal cells

NOTE Confidence: 0.842569947242737

00:26:05.025 --> 00:26:07.970 which can choose to repair DNA damage.

NOTE Confidence: 0.842569947242737

00:26:07.970 --> 00:26:11.098 And so by hijacking the cell zone machinery,

NOTE Confidence: 0.842569947242737

00:26:11.100 --> 00:26:13.683 our goal is to reduce the normal

NOTE Confidence: 0.842569947242737

00:26:13.683 --> 00:26:15.629 tissue toxicity that might be

NOTE Confidence: 0.842569947242737

00:26:15.629 --> 00:26:17.927 experienced by these kind of drugs

NOTE Confidence: 0.842569947242737

00:26:17.927 --> 00:26:20.089 and prevent off target effects.

NOTE Confidence: 0.842569947242737

00:26:20.090 --> 00:26:23.590 So next slide please.

NOTE Confidence: 0.842569947242737

00:26:23.590 --> 00:26:24.622 So our.

NOTE Confidence: 0.842569947242737

00:26:24.622 --> 00:26:27.718 Focus has been to directly convert

NOTE Confidence: 0.842569947242737

00:26:27.718 --> 00:26:30.351 the amplified DNA into DNA damage

NOTE Confidence: 0.842569947242737

00:26:30.351 --> 00:26:34.057 and so by doing so we have designed

NOTE Confidence: 0.842569947242737

00:26:34.057 --> 00:26:37.417 oligonucleotides that can bind to

NOTE Confidence: 0.842569947242737

00:26:37.417 --> 00:26:40.799 specific sequences within the amplified gene,

NOTE Confidence: 0.842569947242737

00:26:40.799 --> 00:26:43.970 which is then forms a triplex structure

NOTE Confidence: 0.842569947242737

00:26:44.055 --> 00:26:46.593 that is recognized by the cell's

NOTE Confidence: 0.842569947242737

00:26:46.593 --> 00:26:48.899 DNA damage and through replication

NOTE Confidence: 0.842569947242737

00:26:48.899 --> 00:26:52.127 stress leads to excessive DNA damage,

NOTE Confidence: 0.842569947242737

00:26:52.130 --> 00:26:52.606 specifically,

NOTE Confidence: 0.842569947242737

00:26:52.606 --> 00:26:54.986 at the amplified regions this

NOTE Confidence: 0.842569947242737

00:26:54.986 --> 00:26:56.414 excessive DNA damage.

NOTE Confidence: 0.842569947242737

00:26:56.420 --> 00:26:58.928 Then can activate a DNA damage

NOTE Confidence: 0.842569947242737

00:26:58.928 --> 00:27:01.897 response as a result of all this

NOTE Confidence: 0.842569947242737

00:27:01.897 --> 00:27:03.907 damage leading to the activation

NOTE Confidence: 0.842569947242737

00:27:03.907 --> 00:27:06.770 of a P53 independent pathway,

NOTE Confidence: 0.842569947242737

00:27:06.770 --> 00:27:09.451 and so we believe that this drug

NOTE Confidence: 0.842569947242737

00:27:09.451 --> 00:27:11.534 design platform can actually have

NOTE Confidence: 0.842569947242737

00:27:11.534 --> 00:27:14.096 far reaching approaches due to the

NOTE Confidence: 0.842569947242737

00:27:14.096 --> 00:27:17.124 fact that there are over 500,000

NOTE Confidence: 0.842569947242737

00:27:17.124 --> 00:27:19.216 unique triplex targeted sequences

NOTE Confidence: 0.842569947242737

00:27:19.216 --> 00:27:21.030 throughout the human genome,

NOTE Confidence: 0.842569947242737

00:27:21.030 --> 00:27:23.690 and in fact there are more than

NOTE Confidence: 0.842569947242737

00:27:23.690 --> 00:27:26.292 460 amplified genes are cross

NOTE Confidence: 0.842569947242737

00:27:26.292 --> 00:27:28.428 14 different cancer subtypes.

NOTE Confidence: 0.842569947242737

00:27:28.430 --> 00:27:31.069 So we believe that we can specifically

NOTE Confidence: 0.842569947242737

00:27:31.069 --> 00:27:34.079 use this drug design platform to target

NOTE Confidence: 0.842569947242737

00:27:34.079 --> 00:27:36.779 many different types of cancers that

NOTE Confidence: 0.842569947242737

00:27:36.855 --> 00:27:39.760 are characterized by gene amplification.

NOTE Confidence: 0.842569947242737

00:27:39.760 --> 00:27:40.768 And thank you.

NOTE Confidence: 0.839542080055584

00:27:46.620 --> 00:27:48.560 Thanks very, very interesting.

NOTE Confidence: 0.839542080055584

00:27:48.560 --> 00:27:52.655 So now we move on to the final

NOTE Confidence: 0.839542080055584

00:27:52.655 --> 00:27:55.365 speaker who's joined our panel

NOTE Confidence: 0.839542080055584

00:27:55.365 --> 00:27:58.330 today and that's Josh Blinker.

NOTE Confidence: 0.839542080055584

00:27:58.330 --> 00:28:01.246 Josh comes from outside of Yale,

NOTE Confidence: 0.839542080055584

00:28:01.250 --> 00:28:04.618 but he certainly is part of the community

NOTE Confidence: 0.839542080055584

00:28:04.618 --> 00:28:07.718 living in Connecticut Ann and starting

NOTE Confidence: 0.839542080055584

00:28:07.718 --> 00:28:10.982 his last company here in Connecticut.

NOTE Confidence: 0.839542080055584

00:28:10.990 --> 00:28:14.399 So we're thrilled to have him here.

NOTE Confidence: 0.839542080055584

00:28:14.400 --> 00:28:17.292 Josh can really speak to today's

NOTE Confidence: 0.839542080055584

00:28:17.292 --> 00:28:20.249 topic from a number of angles.

NOTE Confidence: 0.839542080055584

00:28:20.250 --> 00:28:22.680 You know, given his background,

NOTE Confidence: 0.839542080055584

00:28:22.680 --> 00:28:25.590 so he's a trained medical oncologist.

NOTE Confidence: 0.839542080055584

00:28:25.590 --> 00:28:28.010 He's worked at the FDA.

NOTE Confidence: 0.839542080055584

00:28:28.010 --> 00:28:30.692 He's worked in venture capital and

NOTE Confidence: 0.839542080055584

00:28:30.692 --> 00:28:33.567 then most recently he's started his

NOTE Confidence: 0.839542080055584

00:28:33.567 --> 00:28:35.571 own incredibly highly successful

NOTE Confidence: 0.839542080055584

00:28:35.571 --> 00:28:38.200 company locks in one Cology,

NOTE Confidence: 0.839542080055584

00:28:38.200 --> 00:28:41.110 which recently was acquired by Lily.

NOTE Confidence: 0.839542080055584

00:28:41.110 --> 00:28:44.274 So now he sits inside Eli Lilly

NOTE Confidence: 0.839542080055584

00:28:44.274 --> 00:28:47.787 and is really one of the senior

NOTE Confidence: 0.839542080055584

00:28:47.787 --> 00:28:50.352 managers there in charge of.

NOTE Confidence: 0.839542080055584

00:28:50.360 --> 00:28:53.120 Well, is strategy and oncology,

NOTE Confidence: 0.839542080055584

00:28:53.120 --> 00:28:54.102 so again,

NOTE Confidence: 0.839542080055584

00:28:54.102 --> 00:28:57.048 we're really pleased to have Josh

NOTE Confidence: 0.839542080055584

00:28:57.048 --> 00:28:59.944 here today and he'll just offer

NOTE Confidence: 0.839542080055584

00:28:59.944 --> 00:29:04.147 some comments on what he sees is the

NOTE Confidence: 0.839542080055584

00:29:04.147 --> 00:29:06.911 challenges and opportunities and

NOTE Confidence: 0.839542080055584

00:29:06.911 --> 00:29:09.675 developing novel cancer Therapeutics

NOTE Confidence: 0.839542080055584

00:29:09.680 --> 00:29:12.440 an in regard to collaborations

NOTE Confidence: 0.839542080055584

00:29:12.440 --> 00:29:14.648 of companies and academia,

NOTE Confidence: 0.839542080055584

00:29:14.650 --> 00:29:15.610 Josh?

NOTE Confidence: 0.839542080055584

00:29:15.610 --> 00:29:16.570 Thanks

NOTE Confidence: 0.753304362297058

00:29:16.570 --> 00:29:18.715 Tim for the con introduction

NOTE Confidence: 0.753304362297058

00:29:18.715 --> 00:29:20.860 and having me here I.

NOTE Confidence: 0.753304362297058

00:29:20.860 --> 00:29:24.759 Prepared, prepared like two sets of remarks.

NOTE Confidence: 0.753304362297058

00:29:24.760 --> 00:29:27.192 And I think one of them may be

NOTE Confidence: 0.753304362297058

00:29:27.192 --> 00:29:28.730 appropriate for this session.

NOTE Confidence: 0.753304362297058

00:29:28.730 --> 00:29:30.390 I might save the other,

NOTE Confidence: 0.753304362297058

00:29:30.390 --> 00:29:33.369 but I'll try to get them to quickly Tim.

NOTE Confidence: 0.753304362297058

00:29:33.370 --> 00:29:36.349 And if you want me to elaborate on anything,

NOTE Confidence: 0.753304362297058

00:29:36.350 --> 00:29:39.320 please interrupt me or come back at the end.

NOTE Confidence: 0.753304362297058

00:29:39.320 --> 00:29:41.602 But one set of remarks I thought

NOTE Confidence: 0.753304362297058

00:29:41.602 --> 00:29:43.575 might be interesting and relevant to

NOTE Confidence: 0.753304362297058

00:29:43.575 --> 00:29:45.731 the attendees is the topic of what

NOTE Confidence: 0.753304362297058

00:29:45.796 --> 00:29:47.866 are the types of relationships and

NOTE Confidence: 0.753304362297058

00:29:47.866 --> 00:29:49.804 academic lab can have with industry?

NOTE Confidence: 0.753304362297058

00:29:49.804 --> 00:29:52.020 And what are the sort of risk rewards

NOTE Confidence: 0.753304362297058

00:29:52.082 --> 00:29:54.217 and implications of those relationships?

NOTE Confidence: 0.753304362297058

00:29:54.220 --> 00:29:55.162 And I really.

NOTE Confidence: 0.753304362297058

00:29:55.162 --> 00:29:58.343 Break them into sort of 3 three buckets with

NOTE Confidence: 0.753304362297058

00:29:58.343 --> 00:30:01.067 sort of increasing levels of intensity.

NOTE Confidence: 0.753304362297058

00:30:01.070 --> 00:30:03.702 I think at the in the sort of

NOTE Confidence: 0.753304362297058

00:30:03.702 --> 00:30:05.320 lightest intensity relationship,

NOTE Confidence: 0.753304362297058

00:30:05.320 --> 00:30:06.094 said is,

NOTE Confidence: 0.753304362297058

00:30:06.094 --> 00:30:08.803 I'll call it the advisor expert model,

NOTE Confidence: 0.753304362297058

00:30:08.810 --> 00:30:11.736 where the goal of the relationship with

NOTE Confidence: 0.753304362297058

00:30:11.736 --> 00:30:14.298 industry is really to raise awareness

NOTE Confidence: 0.753304362297058

00:30:14.298 --> 00:30:17.175 or detract resources in a global sense

NOTE Confidence: 0.753304362297058

00:30:17.247 --> 00:30:20.100 to a problem set that you or your lab

NOTE Confidence: 0.753304362297058

00:30:20.100 --> 00:30:22.350 thinks is important to human disease.

NOTE Confidence: 0.753304362297058

00:30:22.350 --> 00:30:25.510 And you can have this influenced by say.

NOTE Confidence: 0.753304362297058

00:30:25.510 --> 00:30:26.406 Riding free,

NOTE Confidence: 0.753304362297058

00:30:26.406 --> 00:30:29.094 free advice even or providing paid

NOTE Confidence: 0.753304362297058

00:30:29.094 --> 00:30:31.907 expert advice as a retained consultant.

NOTE Confidence: 0.753304362297058

00:30:31.910 --> 00:30:34.712 Or maybe being a scientific advisory

NOTE Confidence: 0.753304362297058

00:30:34.712 --> 00:30:37.925 member to accompany or small company or

NOTE Confidence: 0.753304362297058

00:30:37.925 --> 00:30:40.865 large company or guest lecturer in a

NOTE Confidence: 0.753304362297058

00:30:40.944 --> 00:30:43.746 large pharma setting is another example

NOTE Confidence: 0.753304362297058

00:30:43.746 --> 00:30:46.536 and the output that you're expected

NOTE Confidence: 0.753304362297058

00:30:46.536 --> 00:30:49.742 to supply whether there is sort of.

NOTE Confidence: 0.753304362297058

00:30:49.750 --> 00:30:51.278 Compensation return or not

NOTE Confidence: 0.753304362297058

00:30:51.278 --> 00:30:52.806 is basically your ideas.

NOTE Confidence: 0.753304362297058

00:30:52.810 --> 00:30:55.378 Alot of your remarks are going to likely

NOTE Confidence: 0.753304362297058

00:30:55.378 --> 00:30:57.790 refer to public domain information,

NOTE Confidence: 0.753304362297058

00:30:57.790 --> 00:30:59.962 but it's really your expertise and

NOTE Confidence: 0.753304362297058

00:30:59.962 --> 00:31:02.934 again the goal from both sides is just

NOTE Confidence: 0.753304362297058

00:31:02.934 --> 00:31:05.106 to bring awareness and education to

NOTE Confidence: 0.753304362297058

00:31:05.181 --> 00:31:07.635 perhaps a biology set of questions

NOTE Confidence: 0.753304362297058

00:31:07.635 --> 00:31:09.663 that needs your particular input,

NOTE Confidence: 0.753304362297058

00:31:09.663 --> 00:31:12.344 so that's that's level one that's light.

NOTE Confidence: 0.753304362297058

00:31:12.350 --> 00:31:13.517 That's no strings.

NOTE Confidence: 0.753304362297058

00:31:13.517 --> 00:31:16.940 That's kind of easy to come and go with,

NOTE Confidence: 0.753304362297058

00:31:16.940 --> 00:31:19.677 and I suspect many of you have

NOTE Confidence: 0.753304362297058

00:31:19.677 --> 00:31:20.459 already engaged.

NOTE Confidence: 0.753304362297058

00:31:20.460 --> 00:31:22.880 In that type of relationship.

NOTE Confidence: 0.753304362297058

00:31:22.880 --> 00:31:24.950 One level up from that.

NOTE Confidence: 0.753304362297058

00:31:24.950 --> 00:31:26.614 Is probably the media's,

NOTE Confidence: 0.753304362297058

00:31:26.614 --> 00:31:29.575 then I'll just call it for lack

NOTE Confidence: 0.753304362297058

00:31:29.575 --> 00:31:32.214 of a better sort of bucket term,

NOTE Confidence: 0.753304362297058

00:31:32.220 --> 00:31:35.300 let's call it some kind of sponsored

NOTE Confidence: 0.753304362297058

00:31:35.300 --> 00:31:37.047 research agreement that covers

NOTE Confidence: 0.753304362297058

00:31:37.047 --> 00:31:39.483 you and your lab or your group.

NOTE Confidence: 0.753304362297058

00:31:39.490 --> 00:31:41.510 And in probably involves your,

NOTE Confidence: 0.753304362297058

00:31:41.510 --> 00:31:43.425 you know your University signing

NOTE Confidence: 0.753304362297058

00:31:43.425 --> 00:31:46.359 off and in this type of agreement,

NOTE Confidence: 0.753304362297058

00:31:46.360 --> 00:31:48.340 the expectation is that your lab

NOTE Confidence: 0.753304362297058

00:31:48.340 --> 00:31:50.983 or know how is providing some kind

NOTE Confidence: 0.753304362297058

00:31:50.983 --> 00:31:53.058 of assay expertise where there's

NOTE Confidence: 0.753304362297058

00:31:53.058 --> 00:31:55.719 a data readout expectation that.

NOTE Confidence: 0.753304362297058

00:31:55.720 --> 00:31:56.692 That is awesome.

NOTE Confidence: 0.753304362297058

00:31:56.692 --> 00:31:58.312 What's proprietary you know between

NOTE Confidence: 0.753304362297058

00:31:58.312 --> 00:32:00.259 you and the industrial partner.

NOTE Confidence: 0.753304362297058

00:32:00.260 --> 00:32:02.696 And I've seen this transpire in both.

NOTE Confidence: 0.753304362297058

00:32:02.700 --> 00:32:05.143 What I'll call an external model and

NOTE Confidence: 0.753304362297058

00:32:05.143 --> 00:32:07.240 an internal model, the external model.

NOTE Confidence: 0.753304362297058

00:32:07.240 --> 00:32:07.940 There's a,

NOTE Confidence: 0.753304362297058

00:32:07.940 --> 00:32:09.680 there's a transference of the

NOTE Confidence: 0.753304362297058

00:32:09.680 --> 00:32:11.788 assay to the partner, they run,

NOTE Confidence: 0.753304362297058

00:32:11.788 --> 00:32:12.496 the assay,

NOTE Confidence: 0.753304362297058

00:32:12.496 --> 00:32:15.260 they perhaps share the results back with you,

NOTE Confidence: 0.753304362297058

00:32:15.260 --> 00:32:17.570 but your academic lab mission is not

NOTE Confidence: 0.753304362297058

00:32:17.570 --> 00:32:20.498 asked to be amended to supply the data.

NOTE Confidence: 0.753304362297058

00:32:20.500 --> 00:32:23.111 Ultimately it sits on the part of

NOTE Confidence: 0.753304362297058

00:32:23.111 --> 00:32:25.038 the industrial sponsor to do that,

NOTE Confidence: 0.753304362297058

00:32:25.040 --> 00:32:27.128 but you've enabled the tech transfer

NOTE Confidence: 0.753304362297058

00:32:27.128 --> 00:32:28.172 of that assay.

NOTE Confidence: 0.753304362297058

00:32:28.180 --> 00:32:32.555 And then on the internal relationship your.

NOTE Confidence: 0.8607497215271

00:32:32.560 --> 00:32:34.814 You're really the one running the assay,

NOTE Confidence: 0.8607497215271

00:32:34.820 --> 00:32:37.179 and therefore you're kind of on the

NOTE Confidence: 0.8607497215271

00:32:37.179 --> 00:32:39.192 hook for deliverables and you have

NOTE Confidence: 0.8607497215271

00:32:39.192 --> 00:32:40.757 to balance the academic mission

NOTE Confidence: 0.8607497215271

00:32:40.757 --> 00:32:42.532 with the Industrial Partnership and

NOTE Confidence: 0.8607497215271

00:32:42.532 --> 00:32:45.059 how to staff that and resource it.

NOTE Confidence: 0.8607497215271

00:32:45.060 --> 00:32:47.544 But either way that the goal

NOTE Confidence: 0.8607497215271

00:32:47.544 --> 00:32:49.750 here is to create data,

NOTE Confidence: 0.8607497215271

00:32:49.750 --> 00:32:52.725 not just your ideas and those data.

NOTE Confidence: 0.8607497215271

00:32:52.730 --> 00:32:55.280 Again, our internal or externally generated,

NOTE Confidence: 0.8607497215271

00:32:55.280 --> 00:32:58.664 and then the third level is probably the most

NOTE Confidence: 0.8607497215271

00:32:58.664 --> 00:33:01.669 intense that's co-founder or cofounder role,

NOTE Confidence: 0.8607497215271

00:33:01.670 --> 00:33:03.374 where it might subsume

NOTE Confidence: 0.8607497215271

00:33:03.374 --> 00:33:05.078 the other two categories.

NOTE Confidence: 0.8607497215271

00:33:05.080 --> 00:33:07.205 There might be a sponsored

NOTE Confidence: 0.8607497215271

00:33:07.205 --> 00:33:08.055 research component.

NOTE Confidence: 0.8607497215271

00:33:08.060 --> 00:33:10.616 There might be an advice component,

NOTE Confidence: 0.8607497215271

00:33:10.620 --> 00:33:11.470 but really,

NOTE Confidence: 0.8607497215271

00:33:11.470 --> 00:33:14.445 you're really putting your kind of currency,

NOTE Confidence: 0.8607497215271

00:33:14.450 --> 00:33:15.749 your personal currency,

NOTE Confidence: 0.8607497215271

00:33:15.749 --> 00:33:17.914 behind a set of ideas.

NOTE Confidence: 0.8607497215271

00:33:17.920 --> 00:33:21.004 And there's some expectation

NOTE Confidence: 0.8607497215271

00:33:21.004 --> 00:33:23.317 that that commitment.

NOTE Confidence: 0.8607497215271

00:33:23.320 --> 00:33:26.001 With all its conflicts and my next

NOTE Confidence: 0.8607497215271

00:33:26.001 --> 00:33:28.587 set of remarks tries to handle

NOTE Confidence: 0.8607497215271

00:33:28.587 --> 00:33:30.837 some of those conflict issues.

NOTE Confidence: 0.8607497215271

00:33:30.840 --> 00:33:31.740 But really,

NOTE Confidence: 0.8607497215271

00:33:31.740 --> 00:33:34.440 the behavior involves you know your

NOTE Confidence: 0.8607497215271

00:33:34.440 --> 00:33:37.108 personal sort of stake in this thing,

NOTE Confidence: 0.8607497215271

00:33:37.110 --> 00:33:39.618 and you might be involved in

NOTE Confidence: 0.8607497215271

00:33:39.618 --> 00:33:41.290 mediating conversations with check,

NOTE Confidence: 0.8607497215271

00:33:41.290 --> 00:33:42.962 transfer or investors or

NOTE Confidence: 0.8607497215271

00:33:42.962 --> 00:33:45.052 entrepreneurs as they come around.

NOTE Confidence: 0.8607497215271

00:33:45.060 --> 00:33:47.150 That idea or pharma executives.

NOTE Confidence: 0.8607497215271

00:33:47.150 --> 00:33:49.235 If it's a big pharma

NOTE Confidence: 0.8607497215271

00:33:49.235 --> 00:33:50.486 relationship or subsidiary,

NOTE Confidence: 0.8607497215271

00:33:50.490 --> 00:33:52.590 so I think that's the

NOTE Confidence: 0.8607497215271

00:33:52.590 --> 00:33:54.690 most intense and I think.

NOTE Confidence: 0.8607497215271

00:33:54.690 --> 00:33:56.766 It it has its own tradeoffs,

NOTE Confidence: 0.8607497215271

00:33:56.770 --> 00:33:58.690 but but with that I'll pause

NOTE Confidence: 0.8607497215271

00:33:58.690 --> 00:34:00.789 and see if Tim you'd like

NOTE Confidence: 0.8607497215271

00:34:00.789 --> 00:34:02.649 me to stop or elaborate.

NOTE Confidence: 0.831209242343903

00:34:04.960 --> 00:34:06.796 Josh, I think you're gonna run.

NOTE Confidence: 0.831209242343903

00:34:06.800 --> 00:34:08.990 Why don't you spend another minute

NOTE Confidence: 0.831209242343903

00:34:08.990 --> 00:34:11.174 or two elaborating and then will

NOTE Confidence: 0.831209242343903

00:34:11.174 --> 00:34:13.136 then next look for some panel

NOTE Confidence: 0.831209242343903

00:34:13.136 --> 00:34:15.059 reaction to your comments so can

NOTE Confidence: 0.831209242343903

00:34:15.059 --> 00:34:18.100 tune on a little bit more. Alright.

NOTE Confidence: 0.840795814990997

00:34:18.610 --> 00:34:22.075 It might be too much to handle

NOTE Confidence: 0.840795814990997

00:34:22.075 --> 00:34:24.560 the complexities of you know.

NOTE Confidence: 0.840795814990997

00:34:24.560 --> 00:34:28.408 I'd like to have sort of a dedicated

NOTE Confidence: 0.840795814990997

00:34:28.408 --> 00:34:31.720 sensor set of remarks about the

NOTE Confidence: 0.840795814990997

00:34:31.720 --> 00:34:35.092 frictions that I see as academics.

NOTE Confidence: 0.840795814990997

00:34:35.100 --> 00:34:36.930 Uh. Is academics?

NOTE Confidence: 0.840795814990997

00:34:36.930 --> 00:34:41.200 Really set up one of these three

NOTE Confidence: 0.840795814990997

00:34:41.327 --> 00:34:44.987 relationships and how do they?

NOTE Confidence: 0.840795814990997

00:34:44.990 --> 00:34:47.954 I'm just being distracted by some

NOTE Confidence: 0.840795814990997

00:34:47.954 --> 00:34:49.930 inappropriate comments on my.

NOTE Confidence: 0.840795814990997

00:34:49.930 --> 00:34:51.805 Screen, maybe I'll ask the

NOTE Confidence: 0.840795814990997

00:34:51.805 --> 00:34:53.680 moderator to look into that.

NOTE Confidence: 0.840795814990997

00:34:53.680 --> 00:34:55.184 My apologies were taking

NOTE Confidence: 0.840795814990997

00:34:55.184 --> 00:34:58.580 care of that now, OK.

NOTE Confidence: 0.840795814990997

00:34:58.580 --> 00:35:00.505 You know, I think I think it

NOTE Confidence: 0.840795814990997

00:35:00.505 --> 00:35:02.454 all of these relationships sets

NOTE Confidence: 0.840795814990997

00:35:02.454 --> 00:35:04.558 involve some soul searching,

NOTE Confidence: 0.840795814990997

00:35:04.560 --> 00:35:07.178 which I think happens at 2 levels.

NOTE Confidence: 0.840795814990997

00:35:07.180 --> 00:35:09.430 That happens at the personal level.

NOTE Confidence: 0.840795814990997

00:35:09.430 --> 00:35:11.668 Like what am I comfortable with?

NOTE Confidence: 0.840795814990997

00:35:11.670 --> 00:35:14.654 How do I want to use my time?

NOTE Confidence: 0.840795814990997

00:35:14.660 --> 00:35:16.530 How do I feel comfortable,

NOTE Confidence: 0.840795814990997

00:35:16.530 --> 00:35:18.564 uncomfortable with the idea of industry

NOTE Confidence: 0.840795814990997

00:35:18.564 --> 00:35:21.019 being part of my academic mission?

NOTE Confidence: 0.840795814990997

00:35:21.020 --> 00:35:23.264 And then I think there's also

NOTE Confidence: 0.840795814990997

00:35:23.264 --> 00:35:25.136 a time management, you know,

NOTE Confidence: 0.840795814990997

00:35:25.136 --> 00:35:27.747 sort of implication to some of this.

NOTE Confidence: 0.840795814990997

00:35:27.750 --> 00:35:31.925 How do how do I want to? Spend my time.

NOTE Confidence: 0.840795814990997

00:35:31.925 --> 00:35:35.149 Do I like the idea of being around a company?

NOTE Confidence: 0.840795814990997

00:35:35.150 --> 00:35:37.778 Do I like the idea of being in the

NOTE Confidence: 0.840795814990997

00:35:37.778 --> 00:35:40.416 halls of a large pharma periodically?

NOTE Confidence: 0.840795814990997

00:35:40.420 --> 00:35:43.760 So you know, I think.

NOTE Confidence: 0.840795814990997

00:35:43.760 --> 00:35:46.315 I think it all looks like roses.

NOTE Confidence: 0.840795814990997

00:35:46.320 --> 00:35:47.020 I think.

NOTE Confidence: 0.840795814990997

00:35:47.020 --> 00:35:49.470 I think the the worst assumption set

NOTE Confidence: 0.840795814990997

00:35:49.470 --> 00:35:52.088 to go in with is like OH industry

NOTE Confidence: 0.840795814990997

00:35:52.088 --> 00:35:54.349 is this sort of undisciplined,

NOTE Confidence: 0.840795814990997

00:35:54.350 --> 00:35:55.842 unlimited source of capital

NOTE Confidence: 0.840795814990997

00:35:55.842 --> 00:35:57.707 that's just going to augment

NOTE Confidence: 0.840795814990997

00:35:57.707 --> 00:35:59.817 the academic mission of my lab.

NOTE Confidence: 0.840795814990997

00:35:59.820 --> 00:36:01.938 I think that's the most simplistic

NOTE Confidence: 0.840795814990997

00:36:01.938 --> 00:36:03.350 and quite honestly unhelpful

NOTE Confidence: 0.840795814990997

00:36:03.414 --> 00:36:04.930 for both parties mentality,

NOTE Confidence: 0.840795814990997

00:36:04.930 --> 00:36:07.120 and it's a very common mentality.

NOTE Confidence: 0.840795814990997

00:36:07.120 --> 00:36:09.680 I encounter an I don't, I don't.

NOTE Confidence: 0.840795814990997

00:36:09.680 --> 00:36:12.600 I think it's sort of a dishonest partnership.

NOTE Confidence: 0.840795814990997

00:36:12.600 --> 00:36:14.080 If that's the thesis,

NOTE Confidence: 0.840795814990997

00:36:14.080 --> 00:36:15.190 because it misunderstands.

NOTE Confidence: 0.840795814990997

00:36:15.190 --> 00:36:17.710 What I think the true value of the

NOTE Confidence: 0.840795814990997

00:36:17.710 --> 00:36:19.360 partnership was intended to be,

NOTE Confidence: 0.840795814990997

00:36:19.360 --> 00:36:22.249 and so happy to unpack that a little more.

NOTE Confidence: 0.840795814990997

00:36:22.250 --> 00:36:24.818 But I want to say it out loud,

NOTE Confidence: 0.840795814990997

00:36:24.820 --> 00:36:26.425 because if one listening to

NOTE Confidence: 0.840795814990997

00:36:26.425 --> 00:36:27.709 this had that expectation,

NOTE Confidence: 0.840795814990997

00:36:27.710 --> 00:36:29.660 I think it's really worth another

NOTE Confidence: 0.840795814990997

00:36:29.660 --> 00:36:31.326 set of discussions that maybe

NOTE Confidence: 0.840795814990997

00:36:31.326 --> 00:36:32.846 the panel wants to unpack.

NOTE Confidence: 0.776738524436951

00:36:39.640 --> 00:36:44.476 Great thanks Josh. So that's yeah.

NOTE Confidence: 0.776738524436951

00:36:44.480 --> 00:36:47.469 A great entry into our panel discussion

NOTE Confidence: 0.776738524436951

00:36:47.469 --> 00:36:51.097 so we could just ask all the panelists,

NOTE Confidence: 0.776738524436951

00:36:51.100 --> 00:36:54.670 open up their mikes and turn on

NOTE Confidence: 0.776738524436951

00:36:54.670 --> 00:36:58.915 their videos and. Will move into.

NOTE Confidence: 0.776738524436951

00:36:58.915 --> 00:37:03.160 The discussion session. Of the meeting.

NOTE Confidence: 0.776738524436951

00:37:03.160 --> 00:37:06.730 So again reminder to the audience it.

NOTE Confidence: 0.776738524436951

00:37:06.730 --> 00:37:09.265 Please bring forward any questions

NOTE Confidence: 0.776738524436951

00:37:09.265 --> 00:37:12.340 you want into the chat room.

NOTE Confidence: 0.776738524436951

00:37:12.340 --> 00:37:16.420 Again, we'd very much like to hear those,

NOTE Confidence: 0.776738524436951

00:37:16.420 --> 00:37:19.972 so let me maybe just start out by

NOTE Confidence: 0.776738524436951

00:37:19.972 --> 00:37:23.225 asking the panelists just to react

NOTE Confidence: 0.776738524436951

00:37:23.225 --> 00:37:26.615 a little bit to Josh's comments.

NOTE Confidence: 0.776738524436951

00:37:26.620 --> 00:37:30.516 And in terms of your experiences in terms

NOTE Confidence: 0.776738524436951

00:37:30.516 --> 00:37:33.798 of interactions with investors about tech.

NOTE Confidence: 0.776738524436951

00:37:33.800 --> 00:37:36.348 For Pharma and maybe comment a little

NOTE Confidence: 0.776738524436951

00:37:36.348 --> 00:37:39.267 bit on how you thought about that.

NOTE Confidence: 0.776738524436951

00:37:39.270 --> 00:37:42.000 As you've sort of entered into those

NOTE Confidence: 0.776738524436951

00:37:42.000 --> 00:37:44.316 relationships and how you've managed some

NOTE Confidence: 0.776738524436951

00:37:44.316 --> 00:37:47.490 of those issues and some of those tensions.

NOTE Confidence: 0.815146148204803

00:37:51.350 --> 00:37:53.419 I I, I think that

NOTE Confidence: 0.815146148204803

00:37:53.420 --> 00:37:55.891 Josh should bring up a good point

NOTE Confidence: 0.815146148204803

00:37:55.891 --> 00:37:58.797 in terms of just expectations on the

NOTE Confidence: 0.815146148204803

00:37:58.797 --> 00:38:01.952 faculty's part in terms of what they

NOTE Confidence: 0.815146148204803

00:38:01.952 --> 00:38:04.976 hope to get out of these relationships.

NOTE Confidence: 0.815146148204803

00:38:04.980 --> 00:38:08.020 I like to think that that isn't that

NOTE Confidence: 0.815146148204803

00:38:08.020 --> 00:38:11.166 big of a problem with these days.

NOTE Confidence: 0.815146148204803

00:38:11.170 --> 00:38:14.474 It has been a problem in the past,

NOTE Confidence: 0.815146148204803

00:38:14.480 --> 00:38:16.560 but OCR and the entrepreneurial

NOTE Confidence: 0.815146148204803

00:38:16.560 --> 00:38:19.850 ecosystem at Yale does a really good job.

NOTE Confidence: 0.815146148204803

00:38:19.850 --> 00:38:22.769 I feel in terms of educating faculty.

NOTE Confidence: 0.815146148204803

00:38:22.770 --> 00:38:24.840 And helping them set expectations,

NOTE Confidence: 0.815146148204803

00:38:24.840 --> 00:38:26.906 figure out what's possible and

NOTE Confidence: 0.815146148204803

00:38:26.906 --> 00:38:29.804 so at least compared to when I

NOTE Confidence: 0.815146148204803

00:38:29.804 --> 00:38:31.880 started again 25 years ago,

NOTE Confidence: 0.815146148204803

00:38:31.880 --> 00:38:34.638 I find that the younger faculty that

NOTE Confidence: 0.815146148204803

00:38:34.638 --> 00:38:37.800 are now thinking about these types of

NOTE Confidence: 0.815146148204803

00:38:37.800 --> 00:38:40.180 partnerships are much more sophisticated

NOTE Confidence: 0.815146148204803

00:38:40.180 --> 00:38:43.586 in terms of what they need to prove with

NOTE Confidence: 0.815146148204803

00:38:43.586 --> 00:38:46.778 respect to what they bring to the table,

NOTE Confidence: 0.815146148204803

00:38:46.780 --> 00:38:49.264 so I'm sure that there will

NOTE Confidence: 0.815146148204803

00:38:49.264 --> 00:38:50.506 always be exceptions,

NOTE Confidence: 0.815146148204803

00:38:50.510 --> 00:38:52.158 but I've been impressed.

NOTE Confidence: 0.77983535528183

00:38:53.880 --> 00:38:56.790 Thanks Greg. And Elsa Ranjit,

NOTE Confidence: 0.77983535528183

00:38:56.790 --> 00:38:59.022 any comments in a youth? Sort of.

NOTE Confidence: 0.77983535528183

00:38:59.022 --> 00:39:01.488 Been involved in some of these

NOTE Confidence: 0.77983535528183

00:39:01.488 --> 00:39:02.869 situations, so yeah, it's

NOTE Confidence: 0.862630367279053

00:39:02.870 --> 00:39:05.138 a really great great question and I've

NOTE Confidence: 0.862630367279053

00:39:05.138 --> 00:39:07.699 been involved in a lot of different levels,

NOTE Confidence: 0.862630367279053

00:39:07.700 --> 00:39:09.625 including the companies that I've

NOTE Confidence: 0.862630367279053

00:39:09.625 --> 00:39:11.550 started and also companies have

NOTE Confidence: 0.862630367279053

00:39:11.612 --> 00:39:13.474 reached out to me and there really

NOTE Confidence: 0.862630367279053

00:39:13.474 --> 00:39:15.666 is a sweet spot I found. I'm I've.

NOTE Confidence: 0.862630367279053

00:39:15.666 --> 00:39:17.334 I've found that some smaller companies

NOTE Confidence: 0.862630367279053

00:39:17.334 --> 00:39:19.289 in larger companies really understand,

NOTE Confidence: 0.862630367279053

00:39:19.290 --> 00:39:20.900 as does the academic side.

NOTE Confidence: 0.862630367279053

00:39:20.900 --> 00:39:23.329 You know, the balance in the symbiosis

NOTE Confidence: 0.862630367279053

00:39:23.329 --> 00:39:25.589 of what each party can offer an

NOTE Confidence: 0.862630367279053

00:39:25.589 --> 00:39:27.990 you know if you can get it right,

NOTE Confidence: 0.862630367279053

00:39:27.990 --> 00:39:29.660 you can, really, you know.

NOTE Confidence: 0.862630367279053

00:39:29.660 --> 00:39:31.616 The academic and offer expertise or

NOTE Confidence: 0.862630367279053

00:39:31.616 --> 00:39:33.828 think about things the way the farmer,

NOTE Confidence: 0.862630367279053

00:39:33.830 --> 00:39:35.114 farmer, biotech side wouldn't

NOTE Confidence: 0.862630367279053

00:39:35.114 --> 00:39:36.719 necessarily an really vice versa.

NOTE Confidence: 0.862630367279053

00:39:36.720 --> 00:39:39.609 So I think it's there's an art to it,

NOTE Confidence: 0.862630367279053

00:39:39.610 --> 00:39:41.536 and I think it's actually quite

NOTE Confidence: 0.862630367279053

00:39:41.536 --> 00:39:42.820 important to recognize really.

NOTE Confidence: 0.862630367279053

00:39:42.820 --> 00:39:45.388 A lot of comments that Josh said so.

NOTE Confidence: 0.750617980957031

00:39:47.980 --> 00:39:50.325 But my Sanji, who said that anyone

NOTE Confidence: 0.750617980957031

00:39:50.325 --> 00:39:52.870 else with any comments or thoughts?

NOTE Confidence: 0.750617980957031

00:39:52.870 --> 00:39:55.450 I mean, I think it's important

NOTE Confidence: 0.750617980957031

00:39:55.450 --> 00:39:58.250 guidance and really these interactions,

NOTE Confidence: 0.750617980957031

00:39:58.250 --> 00:39:59.699 like all interactions,

NOTE Confidence: 0.750617980957031

00:39:59.699 --> 00:40:02.597 require trust and familiarity and and

NOTE Confidence: 0.750617980957031

00:40:02.597 --> 00:40:05.097 really are based on relationships.

NOTE Confidence: 0.750617980957031

00:40:05.100 --> 00:40:07.956 That was a part of the

NOTE Confidence: 0.750617980957031

00:40:07.956 --> 00:40:10.470 purpose of meetings like this.

NOTE Confidence: 0.750617980957031

00:40:10.470 --> 00:40:13.194 Again, is to build those relationships

NOTE Confidence: 0.750617980957031

00:40:13.194 --> 00:40:16.340 again to sort of navigate those.

NOTE Confidence: 0.750617980957031

00:40:16.340 --> 00:40:18.512 Those inherently or potentially

NOTE Confidence: 0.750617980957031

00:40:18.512 --> 00:40:21.227 tricky issues between an academic

NOTE Confidence: 0.750617980957031

00:40:21.227 --> 00:40:23.220 scientist and an investor or.

NOTE Confidence: 0.750617980957031

00:40:23.220 --> 00:40:27.036 Industry. Um? Let me say so.

NOTE Confidence: 0.750617980957031

00:40:27.040 --> 00:40:28.948 We have some questions coming in,

NOTE Confidence: 0.750617980957031

00:40:28.950 --> 00:40:30.565 so let's move to some

NOTE Confidence: 0.750617980957031

00:40:30.565 --> 00:40:31.857 questions from the audience.

NOTE Confidence: 0.750617980957031

00:40:31.860 --> 00:40:36.207 The first one I'll just read out.

NOTE Confidence: 0.750617980957031

00:40:36.210 --> 00:40:37.635 As an investor,

NOTE Confidence: 0.750617980957031

00:40:37.635 --> 00:40:40.010 I'm intrigued by the YMCD.

NOTE Confidence: 0.750617980957031

00:40:40.010 --> 00:40:43.628 Is this facility and the professionals

NOTE Confidence: 0.750617980957031

00:40:43.628 --> 00:40:46.680 working there accessible to people

NOTE Confidence: 0.750617980957031

00:40:46.680 --> 00:40:49.968 start up companies outside of Yale?

NOTE Confidence: 0.750617980957031

00:40:49.970 --> 00:40:50.570 Yeah,

NOTE Confidence: 0.853338360786438

00:40:50.570 --> 00:40:55.370 no I can. So the answer is yes,

NOTE Confidence: 0.853338360786438

00:40:55.370 --> 00:40:59.570 we have mechanisms in place that allow

NOTE Confidence: 0.853338360786438

00:40:59.570 --> 00:41:01.973 the screening technology, robotics,

NOTE Confidence: 0.853338360786438

00:41:01.973 --> 00:41:04.988 the compounds they actually development.

NOTE Confidence: 0.853338360786438

00:41:04.990 --> 00:41:08.118 At at at prices that are of course

NOTE Confidence: 0.853338360786438

00:41:08.118 --> 00:41:09.919 consistent with hail policy.

NOTE Confidence: 0.853338360786438

00:41:09.920 --> 00:41:11.980 But yes, it is possible.

NOTE Confidence: 0.853338360786438

00:41:11.980 --> 00:41:14.638 In fact, several startups Yale based

NOTE Confidence: 0.853338360786438

00:41:14.638 --> 00:41:18.081 startups use this as a way to augment in

NOTE Confidence: 0.853338360786438

00:41:18.081 --> 00:41:20.689 a virtual way some of their challenges

NOTE Confidence: 0.853338360786438

00:41:20.689 --> 00:41:23.485 of just getting off the ground.

NOTE Confidence: 0.853338360786438

00:41:23.490 --> 00:41:27.183 And so it really I think, is nice bridge

NOTE Confidence: 0.853338360786438

00:41:27.183 --> 00:41:29.649 again to translational work from you.

NOTE Confidence: 0.878869962692261

00:41:31.840 --> 00:41:34.780 Thanks Greg. Another question, can

NOTE Confidence: 0.878588080406189

00:41:34.780 --> 00:41:36.988 I interrupt one second I I want to

NOTE Confidence: 0.878588080406189

00:41:36.988 --> 00:41:39.187 apologize to the panel and the audience.

NOTE Confidence: 0.878588080406189

00:41:39.190 --> 00:41:40.570 There was obviously some individuals

NOTE Confidence: 0.878588080406189

00:41:40.570 --> 00:41:41.950 who are disruptive and posting

NOTE Confidence: 0.878588080406189

00:41:41.992 --> 00:41:43.308 it totally inappropriate things,

NOTE Confidence: 0.878588080406189

00:41:43.310 --> 00:41:45.207 and I know the Kathy Lynch and

NOTE Confidence: 0.878588080406189

00:41:45.207 --> 00:41:47.420 her team are working to remove it,

NOTE Confidence: 0.878588080406189

00:41:47.420 --> 00:41:49.697 so I just want to apologize for what is

NOTE Confidence: 0.878588080406189

00:41:49.697 --> 00:41:52.414 a great forum and I'm sorry to interrupt,

NOTE Confidence: 0.878588080406189

00:41:52.420 --> 00:41:54.478 but I just wanted to explain that.

NOTE Confidence: 0.870635986328125

00:41:55.500 --> 00:41:57.520 Appreciated Charlie and and

NOTE Confidence: 0.870635986328125

00:41:57.520 --> 00:42:00.550 we will carry on for sure.

NOTE Confidence: 0.870635986328125

00:42:00.550 --> 00:42:03.413 Make sure we pick up the the

NOTE Confidence: 0.870635986328125

00:42:03.413 --> 00:42:05.363 appropriate questions from the chat

NOTE Confidence: 0.870635986328125

00:42:05.363 --> 00:42:07.923 room so one of these phase was for

NOTE Confidence: 0.870635986328125

00:42:08.002 --> 00:42:10.603 you and I don't know if you saw it,

NOTE Confidence: 0.870635986328125

00:42:10.610 --> 00:42:11.834 but I think again,

NOTE Confidence: 0.870635986328125

00:42:11.834 --> 00:42:14.456 people find you know the basis of your

NOTE Confidence: 0.870635986328125

00:42:14.456 --> 00:42:16.598 approach and the potential scale of

NOTE Confidence: 0.870635986328125

00:42:16.598 --> 00:42:18.938 your approach to be really interesting.

NOTE Confidence: 0.870635986328125

00:42:18.940 --> 00:42:21.369 So the question really was framed around,

NOTE Confidence: 0.870635986328125

00:42:21.370 --> 00:42:23.320 you know, potential downsides of

NOTE Confidence: 0.870635986328125

00:42:23.320 --> 00:42:25.919 this in regard to toxicities and how

NOTE Confidence: 0.870635986328125

00:42:25.919 --> 00:42:27.956 that might be able to be managed,

NOTE Confidence: 0.870635986328125

00:42:27.960 --> 00:42:30.512 but maybe could you just how you think

NOTE Confidence: 0.870635986328125

00:42:30.512 --> 00:42:32.719 about that in terms of measuring

NOTE Confidence: 0.870635986328125

00:42:32.719 --> 00:42:34.599 the toxicities and also maybe.

NOTE Confidence: 0.870635986328125

00:42:34.600 --> 00:42:35.364 On delivery,

NOTE Confidence: 0.870635986328125

00:42:35.364 --> 00:42:38.038 so how would you think about delivering

NOTE Confidence: 0.870635986328125

00:42:38.038 --> 00:42:40.538 these therapeutics to target tissues?

NOTE Confidence: 0.870635986328125

00:42:40.540 --> 00:42:40.870 Yes,

NOTE Confidence: 0.882716655731201

00:42:40.870 --> 00:42:43.310 I think the beauty of our approach is

NOTE Confidence: 0.882716655731201

00:42:43.310 --> 00:42:45.219 the limitation of having toxicities.

NOTE Confidence: 0.882716655731201

00:42:45.220 --> 00:42:48.156 So you might imagine if we decide on

NOTE Confidence: 0.882716655731201

00:42:48.156 --> 00:42:50.269 oligonucleotide to bind to a specific

NOTE Confidence: 0.882716655731201

00:42:50.269 --> 00:42:52.887 sequence within a gene that in a normal

NOTE Confidence: 0.882716655731201

00:42:52.887 --> 00:42:55.573 cell you would only have one or two copies,

NOTE Confidence: 0.882716655731201

00:42:55.573 --> 00:42:58.290 and I'll use her too. As an example,

NOTE Confidence: 0.882716655731201

00:42:58.290 --> 00:43:01.124 a normal cell you would only have one

NOTE Confidence: 0.882716655731201

00:43:01.124 --> 00:43:03.588 or two copies of the her two gene,

NOTE Confidence: 0.882716655731201

00:43:03.590 --> 00:43:06.040 meaning there would be only two binding

NOTE Confidence: 0.882716655731201

00:43:06.040 --> 00:43:08.596 events within that normal cell at the most,

NOTE Confidence: 0.882716655731201

00:43:08.600 --> 00:43:10.676 and that this kind of DNA.

NOTE Confidence: 0.882716655731201

00:43:10.680 --> 00:43:12.955 Damage would be effectively repaired

NOTE Confidence: 0.882716655731201

00:43:12.955 --> 00:43:15.640 by DNA damage response pathways that

NOTE Confidence: 0.882716655731201

00:43:15.640 --> 00:43:17.650 we know can recognize and repair

NOTE Confidence: 0.882716655731201

00:43:17.650 --> 00:43:19.459 this type of DNA damage.

NOTE Confidence: 0.882716655731201

00:43:19.460 --> 00:43:19.858 Conversely,

NOTE Confidence: 0.882716655731201

00:43:19.858 --> 00:43:22.644 in a cell that has gene amplification,

NOTE Confidence: 0.882716655731201

00:43:22.650 --> 00:43:25.038 there would be multiple binding events.

NOTE Confidence: 0.882716655731201

00:43:25.040 --> 00:43:27.784 The induction of excessive DNA damage that

NOTE Confidence: 0.882716655731201

00:43:27.784 --> 00:43:30.229 would then overwhelmed the repair capacity,

NOTE Confidence: 0.882716655731201

00:43:30.230 --> 00:43:33.776 and so the cell will then choose as an

NOTE Confidence: 0.882716655731201

00:43:33.776 --> 00:43:36.220 alternative to activate a pop ptosis.

NOTE Confidence: 0.882716655731201

00:43:36.220 --> 00:43:38.916 So I think that that is the beauty

NOTE Confidence: 0.882716655731201

00:43:38.916 --> 00:43:41.069 of our approach because.

NOTE Confidence: 0.882716655731201

00:43:41.070 --> 00:43:43.290 It takes advantage of the cells

NOTE Confidence: 0.882716655731201

00:43:43.290 --> 00:43:45.172 genomic integrity and those pathways

NOTE Confidence: 0.882716655731201

00:43:45.172 --> 00:43:47.503 that put in place to maintain that

NOTE Confidence: 0.882716655731201

00:43:47.503 --> 00:43:49.300 so normal cells can repair.

NOTE Confidence: 0.882716655731201

00:43:49.300 --> 00:43:52.164 They will survive and they will be fine,

NOTE Confidence: 0.882716655731201

00:43:52.170 --> 00:43:54.200 while the amplified cancer genes

NOTE Confidence: 0.882716655731201

00:43:54.200 --> 00:43:56.230 would have excessive DNA damage

NOTE Confidence: 0.882716655731201

00:43:56.300 --> 00:43:58.394 and they would should choose to

NOTE Confidence: 0.882716655731201

00:43:58.394 --> 00:44:00.240 activate their own cell death.

NOTE Confidence: 0.882716655731201

00:44:00.240 --> 00:44:03.216 In regards with regards to delivery,

NOTE Confidence: 0.882716655731201

00:44:03.220 --> 00:44:05.632 we have been working with Doctor

NOTE Confidence: 0.882716655731201

00:44:05.632 --> 00:44:09.054 Mark Salzman an have been able to

NOTE Confidence: 0.882716655731201

00:44:09.054 --> 00:44:11.362 use nanoparticles to affectively

NOTE Confidence: 0.882716655731201

00:44:11.362 --> 00:44:13.093 deliver these oligonucleotides

NOTE Confidence: 0.882716655731201

00:44:13.174 --> 00:44:15.150 to specifically to tumors,

NOTE Confidence: 0.882716655731201

00:44:15.150 --> 00:44:18.629 and we've been very successful with this.

NOTE Confidence: 0.882716655731201

00:44:18.630 --> 00:44:19.920 Using the nanoparticles,

NOTE Confidence: 0.882716655731201

00:44:19.920 --> 00:44:22.500 we have very good uptake of

NOTE Confidence: 0.882716655731201

00:44:22.500 --> 00:44:25.090 our oligonucleotides to tumors.

NOTE Confidence: 0.876111924648285

00:44:27.320 --> 00:44:29.124 Alright, thanks very much,

NOTE Confidence: 0.876111924648285

00:44:29.124 --> 00:44:30.888 I appreciate that. Yeah,

NOTE Confidence: 0.876111924648285

00:44:30.888 --> 00:44:33.336 next question comes from the inside.

NOTE Confidence: 0.876111924648285

00:44:33.340 --> 00:44:37.840 Think is is again a bit of a follow up on.

NOTE Confidence: 0.876111924648285

00:44:37.840 --> 00:44:39.808 You know, the potential

NOTE Confidence: 0.876111924648285

00:44:39.808 --> 00:44:41.284 academia industry tensions.

NOTE Confidence: 0.876111924648285

00:44:41.290 --> 00:44:43.906 So you know, maybe the question we go

NOTE Confidence: 0.876111924648285

00:44:43.906 --> 00:44:46.795 to out to each of the academic pies.

NOTE Confidence: 0.876111924648285

00:44:46.800 --> 00:44:50.040 How do you manage? You know,

NOTE Confidence: 0.876111924648285

00:44:50.040 --> 00:44:51.925 sort of euryale responsibilities of

NOTE Confidence: 0.876111924648285

00:44:51.925 --> 00:44:53.433 training and developing students.

NOTE Confidence: 0.876111924648285

00:44:53.440 --> 00:44:55.624 PHD's post docs, you know with issues

NOTE Confidence: 0.876111924648285

00:44:55.624 --> 00:44:58.338 that pertain to your corporate relationships.

NOTE Confidence: 0.876111924648285

00:44:58.340 --> 00:45:00.699 Maybe talk a little bit about how

NOTE Confidence: 0.876111924648285

00:45:00.699 --> 00:45:02.914 you all just manage those issues

NOTE Confidence: 0.876111924648285

00:45:02.914 --> 00:45:05.532 within your lab in terms of who

NOTE Confidence: 0.876111924648285

00:45:05.611 --> 00:45:07.626 you know isn't my pretentious

NOTE Confidence: 0.876111924648285

00:45:07.626 --> 00:45:10.019 sort of who's involved in purely

NOTE Confidence: 0.876111924648285

00:45:10.019 --> 00:45:12.233 or academic work versus who might

NOTE Confidence: 0.876111924648285

00:45:12.233 --> 00:45:14.549 be involved in an industry work.

NOTE Confidence: 0.876111924648285

00:45:14.550 --> 00:45:17.934 So let me just open that up for anyone.

NOTE Confidence: 0.819121718406677

00:45:20.740 --> 00:45:22.929 Great, I'll jump in first. You

NOTE Confidence: 0.819121718406677

00:45:22.930 --> 00:45:25.184 know, actually 1 one thing that I've

NOTE Confidence: 0.819121718406677

00:45:25.184 --> 00:45:27.705 learned in the recent years is that you

NOTE Confidence: 0.819121718406677

00:45:27.705 --> 00:45:30.311 know a lot of trainees have different

NOTE Confidence: 0.819121718406677

00:45:30.311 --> 00:45:32.419 aspirations in different interests,

NOTE Confidence: 0.819121718406677

00:45:32.420 --> 00:45:34.250 and you know it's not.

NOTE Confidence: 0.819121718406677

00:45:34.250 --> 00:45:36.075 You know you'll have graduate

NOTE Confidence: 0.819121718406677

00:45:36.075 --> 00:45:37.170 students and postdocs,

NOTE Confidence: 0.819121718406677

00:45:37.170 --> 00:45:39.360 especially in these times that aren't.

NOTE Confidence: 0.819121718406677

00:45:39.360 --> 00:45:41.915 You know, may have an academic focus

NOTE Confidence: 0.819121718406677

00:45:41.915 --> 00:45:44.105 for their career, may have pharma,

NOTE Confidence: 0.819121718406677

00:45:44.105 --> 00:45:45.200 biotech, startup consulting,

NOTE Confidence: 0.819121718406677

00:45:45.200 --> 00:45:47.748 venture capital and actually now often will.

NOTE Confidence: 0.819121718406677

00:45:47.750 --> 00:45:49.940 When I have career development discussions,

NOTE Confidence: 0.819121718406677

00:45:49.940 --> 00:45:52.166 I actually first ask my trainees.

NOTE Confidence: 0.819121718406677

00:45:52.170 --> 00:45:53.886 Where do you want to be?

NOTE Confidence: 0.819121718406677

00:45:53.890 --> 00:45:55.801 And you know there's no no judgment

NOTE Confidence: 0.819121718406677

00:45:55.801 --> 00:45:58.259 about where you know every part of this

NOTE Confidence: 0.819121718406677

00:45:58.259 --> 00:45:59.839 life science development process is

NOTE Confidence: 0.819121718406677

00:45:59.896 --> 00:46:01.952 very important and it will help me know

NOTE Confidence: 0.819121718406677

00:46:01.952 --> 00:46:04.180 what you want to do in your career,

NOTE Confidence: 0.819121718406677

00:46:04.180 --> 00:46:05.896 because that actually also helps me.

NOTE Confidence: 0.819121718406677

00:46:05.900 --> 00:46:07.616 How much to involve some of

NOTE Confidence: 0.819121718406677

00:46:07.616 --> 00:46:08.760 our trainees when appropriate?

NOTE Confidence: 0.819121718406677

00:46:08.760 --> 00:46:10.470 Obviously, in some of some of

NOTE Confidence: 0.819121718406677

00:46:10.470 --> 00:46:12.474 the work that we do outside of,

NOTE Confidence: 0.819121718406677

00:46:12.474 --> 00:46:13.904 you know outside of Yale,

NOTE Confidence: 0.819121718406677

00:46:13.910 --> 00:46:15.863 I think that that you know I'll

NOTE Confidence: 0.819121718406677

00:46:15.863 --> 00:46:18.200 leave it at that as a first comma,

NOTE Confidence: 0.819121718406677

00:46:18.200 --> 00:46:19.340 but let some other

NOTE Confidence: 0.853162527084351

00:46:19.340 --> 00:46:20.480 folks comment as well.

NOTE Confidence: 0.878905236721039

00:46:22.210 --> 00:46:23.898 Anyone else wanna add?

NOTE Confidence: 0.837155401706696

00:46:28.560 --> 00:46:32.181 I can simply say that way I enter

NOTE Confidence: 0.837155401706696

00:46:32.181 --> 00:46:33.540 these collaborations partnerships.

NOTE Confidence: 0.837155401706696

00:46:33.540 --> 00:46:35.810 I always make it clear.

NOTE Confidence: 0.837155401706696

00:46:35.810 --> 00:46:39.128 And of course, Yale requires that work

NOTE Confidence: 0.837155401706696

00:46:39.128 --> 00:46:43.055 that's done in my lab has to be published.

NOTE Confidence: 0.837155401706696

00:46:43.060 --> 00:46:45.320 A bowl with. Of course.

NOTE Confidence: 0.837155401706696

00:46:45.320 --> 00:46:48.491 The write write reviews and checks and

NOTE Confidence: 0.837155401706696

00:46:48.491 --> 00:46:52.114 balances, but it has to be in theory,

NOTE Confidence: 0.837155401706696

00:46:52.120 --> 00:46:54.380 publishable. But to Rungis point,

NOTE Confidence: 0.837155401706696

00:46:54.380 --> 00:46:56.954 you know, I find that there's

NOTE Confidence: 0.837155401706696

00:46:56.954 --> 00:46:59.390 a wide spectrum of people.

NOTE Confidence: 0.837155401706696

00:46:59.390 --> 00:47:01.802 Wanting to sample industry and in

NOTE Confidence: 0.837155401706696

00:47:01.802 --> 00:47:04.611 fact I think that's a big knock

NOTE Confidence: 0.837155401706696

00:47:04.611 --> 00:47:06.843 against academia right now is that

NOTE Confidence: 0.837155401706696

00:47:06.843 --> 00:47:09.983 we are don't do enough to offer

NOTE Confidence: 0.837155401706696

00:47:09.983 --> 00:47:11.775 them real world opportunities,

NOTE Confidence: 0.837155401706696

00:47:11.780 --> 00:47:14.440 so I find that these relationships that

NOTE Confidence: 0.837155401706696

00:47:14.440 --> 00:47:17.174 I have with the private sector actually

NOTE Confidence: 0.837155401706696

00:47:17.174 --> 00:47:20.869 help my lab in terms of recruiting people,

NOTE Confidence: 0.837155401706696

00:47:20.870 --> 00:47:24.419 people that want to learn how industry

NOTE Confidence: 0.837155401706696

00:47:24.419 --> 00:47:26.779 works and specifically you know

NOTE Confidence: 0.837155401706696

00:47:26.779 --> 00:47:29.397 what type of skill sets they need

NOTE Confidence: 0.837155401706696

00:47:29.397 --> 00:47:32.436 to or can pick up while in my lab.

NOTE Confidence: 0.837155401706696

00:47:32.440 --> 00:47:35.167 And so I find that it is a really

NOTE Confidence: 0.837155401706696

00:47:35.167 --> 00:47:36.190 nice balance,

NOTE Confidence: 0.837155401706696

00:47:36.190 --> 00:47:38.577 but I haven't had a problem in

NOTE Confidence: 0.837155401706696

00:47:38.577 --> 00:47:39.600 terms of students.

NOTE Confidence: 0.837155401706696

00:47:39.600 --> 00:47:41.293 And maybe it's because there's

NOTE Confidence: 0.837155401706696

00:47:41.293 --> 00:47:42.262 a selection there.

NOTE Confidence: 0.837155401706696

00:47:42.262 --> 00:47:44.200 They come to my lab wanting

NOTE Confidence: 0.837155401706696

00:47:44.264 --> 00:47:46.418 specifically to gain that skill set.

NOTE Confidence: 0.787414908409119

00:47:47.820 --> 00:47:51.600 Yeah, great anyway I'll just add.

NOTE Confidence: 0.787414908409119

00:47:51.600 --> 00:47:53.816 You know local here in involved a bit

NOTE Confidence: 0.787414908409119

00:47:53.816 --> 00:47:56.129 to speak to that hunger and interest.

NOTE Confidence: 0.787414908409119

00:47:56.130 --> 00:47:58.314 You know we had came in with both

NOTE Confidence: 0.787414908409119

00:47:58.314 --> 00:48:00.360 Yale and UConn have started at.

NOTE Confidence: 0.787414908409119

00:48:00.360 --> 00:48:02.265 Yeah, what's called the Yale

NOTE Confidence: 0.787414908409119

00:48:02.265 --> 00:48:03.408 Canaan Fellowship program.

NOTE Confidence: 0.787414908409119

00:48:03.410 --> 00:48:05.881 Which really you know is open to

NOTE Confidence: 0.787414908409119

00:48:05.881 --> 00:48:09.015 MD or PhD students who are really

NOTE Confidence: 0.787414908409119

00:48:09.015 --> 00:48:11.991 interested in in the more corporate

NOTE Confidence: 0.787414908409119

00:48:12.083 --> 00:48:14.453 side of this bit and startup

NOTE Confidence: 0.787414908409119

00:48:14.453 --> 00:48:16.890 biotechs or on the investment side.

NOTE Confidence: 0.787414908409119

00:48:16.890 --> 00:48:19.440 And again the interest in that

NOTE Confidence: 0.787414908409119

00:48:19.440 --> 00:48:21.803 program is exquisite and that

NOTE Confidence: 0.787414908409119

00:48:21.803 --> 00:48:24.188 the talent is frankly outrageous.

NOTE Confidence: 0.787414908409119

00:48:24.190 --> 00:48:27.662 So again, I think there are certainly

NOTE Confidence: 0.787414908409119

00:48:27.662 --> 00:48:30.623 are large segments of the new

NOTE Confidence: 0.787414908409119

00:48:30.623 --> 00:48:33.383 world of Chinese who overly Archana

NOTE Confidence: 0.787414908409119

00:48:33.383 --> 00:48:35.976 learn this other side of the.

NOTE Confidence: 0.787414908409119

00:48:35.980 --> 00:48:38.204 Up the universe early on in their careers,

NOTE Confidence: 0.787414908409119

00:48:38.210 --> 00:48:40.219 and I think it's great because I

NOTE Confidence: 0.787414908409119

00:48:40.219 --> 00:48:42.535 think the less this is sort of a 2

NOTE Confidence: 0.787414908409119

00:48:42.535 --> 00:48:44.440 sided game and the more it's just

NOTE Confidence: 0.787414908409119

00:48:44.440 --> 00:48:46.270 the continuum and I think that

NOTE Confidence: 0.787414908409119

00:48:46.270 --> 00:48:48.164 much more productive it will be in

NOTE Confidence: 0.787414908409119

00:48:48.164 --> 00:48:49.930 frankly needs to be a continuum.

NOTE Confidence: 0.787414908409119

00:48:49.930 --> 00:48:51.073 Obviously with appropriate

NOTE Confidence: 0.787414908409119

00:48:51.073 --> 00:48:52.216 precautions to protect.

NOTE Confidence: 0.787414908409119

00:48:52.220 --> 00:48:53.540 You know academic integrity,

NOTE Confidence: 0.787414908409119

00:48:53.540 --> 00:48:54.530 but you know,

NOTE Confidence: 0.787414908409119

00:48:54.530 --> 00:48:56.180 I think the world would

NOTE Confidence: 0.787414908409119

00:48:56.180 --> 00:48:57.830 be a far better place.

NOTE Confidence: 0.787414908409119

00:48:57.830 --> 00:48:59.382 You know more seamless.

NOTE Confidence: 0.787414908409119

00:48:59.382 --> 00:49:03.088 We can sort of make make this for people.

NOTE Confidence: 0.787414908409119

00:49:03.090 --> 00:49:04.380 Throwback to you,

NOTE Confidence: 0.807492434978485

00:49:04.380 --> 00:49:05.679 I mean you

NOTE Confidence: 0.807492434978485

00:49:05.680 --> 00:49:06.970 can you as

NOTE Confidence: 0.807492434978485

00:49:06.970 --> 00:49:07.956 I've mentioned,

NOTE Confidence: 0.807492434978485

00:49:07.956 --> 00:49:11.407 have you know real wide aperture and?

NOTE Confidence: 0.807492434978485

00:49:11.410 --> 00:49:14.695 In terms of what you know what you've gone,

NOTE Confidence: 0.807492434978485

00:49:14.700 --> 00:49:16.932 you know your work experiences and

NOTE Confidence: 0.807492434978485

00:49:16.932 --> 00:49:19.177 your success is I'm just curious

NOTE Confidence: 0.807492434978485

00:49:19.177 --> 00:49:20.897 now as you sit inside,

NOTE Confidence: 0.807492434978485

00:49:20.900 --> 00:49:23.192 you know one of the largest

NOTE Confidence: 0.807492434978485

00:49:23.192 --> 00:49:25.215 pharma companies and you really

NOTE Confidence: 0.807492434978485

00:49:25.215 --> 00:49:27.295 have oversight in terms of.

NOTE Confidence: 0.807492434978485

00:49:27.300 --> 00:49:29.484 In a lot of their strategic

NOTE Confidence: 0.807492434978485

00:49:29.484 --> 00:49:30.576 thinking around oncology,

NOTE Confidence: 0.807492434978485

00:49:30.580 --> 00:49:33.513 maybe just share you know with the

NOTE Confidence: 0.807492434978485

00:49:33.513 --> 00:49:36.169 panelist as well as the audience.

NOTE Confidence: 0.807492434978485

00:49:36.170 --> 00:49:38.697 You know how will is thinking about

NOTE Confidence: 0.807492434978485

00:49:38.697 --> 00:49:40.421 their oncologist strategy and what

NOTE Confidence: 0.807492434978485

00:49:40.421 --> 00:49:42.451 might be similar in in regards to

NOTE Confidence: 0.807492434978485

00:49:42.451 --> 00:49:44.397 Lillie with other major companies.

NOTE Confidence: 0.807492434978485

00:49:44.400 --> 00:49:47.144 But also, you know what might be different,

NOTE Confidence: 0.807492434978485

00:49:47.150 --> 00:49:47.768 you know,

NOTE Confidence: 0.807492434978485

00:49:47.768 --> 00:49:49.931 sort of with a focus on where

NOTE Confidence: 0.807492434978485

00:49:49.931 --> 00:49:52.008 you see the ball moving and

NOTE Confidence: 0.807492434978485

00:49:52.008 --> 00:49:54.350 back to sort of Craig's opening,

NOTE Confidence: 0.807492434978485

00:49:54.350 --> 00:49:56.135 comments are really trying to

NOTE Confidence: 0.807492434978485

00:49:56.135 --> 00:49:57.920 give people an understanding of

NOTE Confidence: 0.807492434978485

00:49:57.979 --> 00:49:59.614 what the big oncology franchises

NOTE Confidence: 0.807492434978485

00:49:59.614 --> 00:50:01.550 are going to be looking for.

NOTE Confidence: 0.807492434978485

00:50:01.550 --> 00:50:03.774 You know five and 10 years down the

NOTE Confidence: 0.807492434978485

00:50:03.774 --> 00:50:06.010 road when investigators work starts.

NOTE Confidence: 0.807492434978485

00:50:06.010 --> 00:50:07.039 Starts coming online.

NOTE Confidence: 0.804287970066071

00:50:09.160 --> 00:50:12.484 Yeah, I mean big formal environments

NOTE Confidence: 0.804287970066071

00:50:12.484 --> 00:50:14.146 are complicated places.

NOTE Confidence: 0.804287970066071

00:50:14.150 --> 00:50:16.000 I think they're they're confusing

NOTE Confidence: 0.804287970066071

00:50:16.000 --> 00:50:18.558 from the outside to try to interpret

NOTE Confidence: 0.804287970066071

00:50:18.558 --> 00:50:20.784 that were confusing to me when I

NOTE Confidence: 0.804287970066071

00:50:20.784 --> 00:50:22.929 was working at a small company,

NOTE Confidence: 0.804287970066071

00:50:22.930 --> 00:50:26.080 and they must be confusing to many of you.

NOTE Confidence: 0.804287970066071

00:50:26.080 --> 00:50:27.190 Is sometime collaborators,

NOTE Confidence: 0.804287970066071

00:50:27.190 --> 00:50:29.410 and I think there's like three

NOTE Confidence: 0.804287970066071

00:50:29.410 --> 00:50:31.695 or two or three reasons for that.

NOTE Confidence: 0.804287970066071

00:50:31.700 --> 00:50:33.842 One reason is large farmers are

NOTE Confidence: 0.804287970066071

00:50:33.842 --> 00:50:36.007 constructed and what they'll call most

NOTE Confidence: 0.804287970066071

00:50:36.007 --> 00:50:38.017 of them as a matrixed organization.

NOTE Confidence: 0.804287970066071

00:50:38.020 --> 00:50:39.988 So that means there are these

NOTE Confidence: 0.804287970066071

00:50:39.988 --> 00:50:41.300 technical disciplines that are

NOTE Confidence: 0.804287970066071

00:50:41.362 --> 00:50:43.277 somewhat independent of each other.

NOTE Confidence: 0.804287970066071

00:50:43.280 --> 00:50:44.560 So the commercial group.

NOTE Confidence: 0.804287970066071

00:50:44.560 --> 00:50:46.160 Is the commercial group the

NOTE Confidence: 0.804287970066071

00:50:46.160 --> 00:50:47.390 Biology discovery group?

NOTE Confidence: 0.804287970066071

00:50:47.390 --> 00:50:49.400 Is the biology discovery of the

NOTE Confidence: 0.804287970066071

00:50:49.400 --> 00:50:51.339 pharmaceutics people are their own group?

NOTE Confidence: 0.804287970066071

00:50:51.340 --> 00:50:52.895 The business development or their

NOTE Confidence: 0.804287970066071

00:50:52.895 --> 00:50:54.862 own group and they might report

NOTE Confidence: 0.804287970066071

00:50:54.862 --> 00:50:56.278 up into common structures,

NOTE Confidence: 0.804287970066071

00:50:56.280 --> 00:50:58.583 but if you as an outsider or

NOTE Confidence: 0.804287970066071

00:50:58.583 --> 00:50:59.570 interacting with somebody,

NOTE Confidence: 0.804287970066071

00:50:59.570 --> 00:51:02.194 it's really hard to from their business card.

NOTE Confidence: 0.804287970066071

00:51:02.200 --> 00:51:04.042 Sort of know what political entity

NOTE Confidence: 0.804287970066071

00:51:04.042 --> 00:51:06.149 they represent in the larger company,

NOTE Confidence: 0.804287970066071

00:51:06.150 --> 00:51:08.383 so you may think that you have

NOTE Confidence: 0.804287970066071

00:51:08.383 --> 00:51:10.749 the ear of a company or not,

NOTE Confidence: 0.804287970066071

00:51:10.750 --> 00:51:12.634 but it's really hard to know

NOTE Confidence: 0.804287970066071

00:51:12.634 --> 00:51:14.312 what political sort of dynamics

NOTE Confidence: 0.804287970066071

00:51:14.312 --> 00:51:16.424 are going on behind the scenes.

NOTE Confidence: 0.804287970066071

00:51:16.430 --> 00:51:19.062 That may or may not allow that person

NOTE Confidence: 0.804287970066071

00:51:19.062 --> 00:51:21.714 to deliver on what you're talking about

NOTE Confidence: 0.804287970066071

00:51:21.714 --> 00:51:24.050 or delivering the way you'd hope,

NOTE Confidence: 0.804287970066071

00:51:24.050 --> 00:51:28.050 and so one of the things I've tried to do it.

NOTE Confidence: 0.804287970066071

00:51:28.050 --> 00:51:30.706 Lily is break that down as much as

NOTE Confidence: 0.804287970066071

00:51:30.706 --> 00:51:32.968 possible and make our portfolio is

NOTE Confidence: 0.804287970066071

00:51:32.968 --> 00:51:35.254 coherent as possible all the way

NOTE Confidence: 0.804287970066071

00:51:35.334 --> 00:51:37.494 from target ID to first approval

NOTE Confidence: 0.804287970066071

00:51:37.494 --> 00:51:39.646 and not have these gating technical

NOTE Confidence: 0.804287970066071

00:51:39.646 --> 00:51:42.470 go no goes where at any moment the

NOTE Confidence: 0.804287970066071

00:51:42.541 --> 00:51:45.012 rug could be pulled out and that's

NOTE Confidence: 0.804287970066071

00:51:45.012 --> 00:51:47.319 the problem with the matrix model.

NOTE Confidence: 0.804287970066071

00:51:47.320 --> 00:51:50.575 Is that they often can lead to

NOTE Confidence: 0.804287970066071

00:51:50.575 --> 00:51:53.022 incoherent decision making, I think.

NOTE Confidence: 0.804287970066071

00:51:53.022 --> 00:51:55.126 A second so I,

NOTE Confidence: 0.804287970066071

00:51:55.130 --> 00:51:57.176 I think two other themes worth

NOTE Confidence: 0.804287970066071

00:51:57.176 --> 00:51:58.540 mentioning is the commercial

NOTE Confidence: 0.804287970066071

00:51:58.600 --> 00:52:00.220 entities at these companies.

NOTE Confidence: 0.804287970066071

00:52:00.220 --> 00:52:02.365 The ones who are marketing

NOTE Confidence: 0.804287970066071

00:52:02.365 --> 00:52:04.510 approved products have a lot

NOTE Confidence: 0.804287970066071

00:52:04.596 --> 00:52:06.934 of say on what happens in R&D.

NOTE Confidence: 0.804287970066071

00:52:06.940 --> 00:52:09.572 They have this idea of what moves

NOTE Confidence: 0.804287970066071

00:52:09.572 --> 00:52:12.175 the needle and they still see

NOTE Confidence: 0.804287970066071

00:52:12.175 --> 00:52:14.953 the world through the lens of

NOTE Confidence: 0.804287970066071

00:52:14.953 --> 00:52:16.750 conventionally defined markets.

NOTE Confidence: 0.804287970066071

00:52:16.750 --> 00:52:19.249 Lung cancer is bigger than you know,

NOTE Confidence: 0.804287970066071

00:52:19.250 --> 00:52:21.035 Melanoma and Melanoma is bigger

NOTE Confidence: 0.804287970066071

00:52:21.035 --> 00:52:22.106 than you know.

NOTE Confidence: 0.804287970066071

00:52:22.110 --> 00:52:23.178 Neuroendocrine tumors anurans

NOTE Confidence: 0.804287970066071

00:52:23.178 --> 00:52:25.314 bigger than some even rare orphan,

NOTE Confidence: 0.804287970066071

00:52:25.320 --> 00:52:27.462 so they're going to see the

NOTE Confidence: 0.804287970066071

00:52:27.462 --> 00:52:28.890 world commercially an like.

NOTE Confidence: 0.804287970066071

00:52:28.890 --> 00:52:31.026 They'll use this like troubling phrase.

NOTE Confidence: 0.804287970066071

00:52:31.030 --> 00:52:33.166 You know what moves the needle?

NOTE Confidence: 0.804287970066071

00:52:33.170 --> 00:52:35.240 Can we make a billion dollars

NOTE Confidence: 0.804287970066071

00:52:35.240 --> 00:52:37.100 on this drug a year?

NOTE Confidence: 0.804287970066071

00:52:37.100 --> 00:52:39.780 Can we make 5 billion dollars a year

NOTE Confidence: 0.804287970066071

00:52:39.780 --> 00:52:42.806 on this drug if it's just 200 million?

NOTE Confidence: 0.804287970066071

00:52:42.810 --> 00:52:45.666 We don't even want to hear about it,

NOTE Confidence: 0.804287970066071

00:52:45.670 --> 00:52:46.765 so there's this.

NOTE Confidence: 0.804287970066071

00:52:46.765 --> 00:52:48.225 In many large farmers,

NOTE Confidence: 0.804287970066071

00:52:48.230 --> 00:52:49.376 this disproportionate commercial

NOTE Confidence: 0.804287970066071

00:52:49.376 --> 00:52:51.286 voice that affects strategic thinking

NOTE Confidence: 0.804287970066071

00:52:51.286 --> 00:52:53.267 and that voice is not futuristic,

NOTE Confidence: 0.804287970066071

00:52:53.270 --> 00:52:55.790 it's backward looking at sort of water,

NOTE Confidence: 0.804287970066071

00:52:55.790 --> 00:52:57.590 the franchises that already exist

NOTE Confidence: 0.804287970066071

00:52:57.590 --> 00:52:58.670 and are proven.

NOTE Confidence: 0.804287970066071

00:52:58.670 --> 00:53:01.514 And can we can we Bolt on to those

NOTE Confidence: 0.804287970066071

00:53:01.514 --> 00:53:03.410 existing franchises in ways that

NOTE Confidence: 0.804287970066071

00:53:03.410 --> 00:53:06.117 sort of feel familiar so as to

NOTE Confidence: 0.804287970066071

00:53:06.117 --> 00:53:08.385 fill in holes from patent cliffs.

NOTE Confidence: 0.804287970066071

00:53:08.390 --> 00:53:09.443 And that's not,

NOTE Confidence: 0.804287970066071

00:53:09.443 --> 00:53:11.900 in my opinion the right way to

NOTE Confidence: 0.851582586765289

00:53:11.979 --> 00:53:14.854 look to the future, and then the third.

NOTE Confidence: 0.851582586765289

00:53:14.854 --> 00:53:16.990 I think in companies that have

NOTE Confidence: 0.851582586765289

00:53:17.063 --> 00:53:19.199 more R&D influence at the top.

NOTE Confidence: 0.851582586765289

00:53:19.200 --> 00:53:21.708 They are thinking about futuristic platforms.

NOTE Confidence: 0.851582586765289

00:53:21.710 --> 00:53:23.885 They are thinking about thematic

NOTE Confidence: 0.851582586765289

00:53:23.885 --> 00:53:26.918 bets that they feel they don't want

NOTE Confidence: 0.851582586765289

00:53:26.918 --> 00:53:29.648 to feel like they've missed out on.

NOTE Confidence: 0.851582586765289

00:53:29.650 --> 00:53:32.968 Things like gene therapy, self therapy.

NOTE Confidence: 0.851582586765289

00:53:32.970 --> 00:53:35.560 Or an AI crisper like big delivery,

NOTE Confidence: 0.851582586765289

00:53:35.560 --> 00:53:38.150 big idea, new modality, kind of thinking.

NOTE Confidence: 0.851582586765289

00:53:38.150 --> 00:53:40.974 And then there are a handful of companies

NOTE Confidence: 0.851582586765289

00:53:40.974 --> 00:53:43.565 that are willing to risk capital it

NOTE Confidence: 0.851582586765289

00:53:43.565 --> 00:53:46.289 just not missing fear of missing out.

NOTE Confidence: 0.851582586765289

00:53:46.290 --> 00:53:48.510 They're not going to quote over

NOTE Confidence: 0.851582586765289

00:53:48.510 --> 00:53:49.990 pay for that optionality.

NOTE Confidence: 0.851582586765289

00:53:49.990 --> 00:53:51.362 But in other words,

NOTE Confidence: 0.851582586765289

00:53:51.362 --> 00:53:54.060 in the absence of an approved product,

NOTE Confidence: 0.851582586765289

00:53:54.060 --> 00:53:57.119 but they'll place some bets and I

NOTE Confidence: 0.851582586765289

00:53:57.119 --> 00:54:00.400 think that's sort of 1/3 theme that

NOTE Confidence: 0.851582586765289

00:54:00.400 --> 00:54:03.226 I think can drive some collaboration.

NOTE Confidence: 0.851582586765289

00:54:03.230 --> 00:54:03.660 So

NOTE Confidence: 0.851492524147034

00:54:03.660 --> 00:54:06.680 can I just ask follow up questions?

NOTE Confidence: 0.851492524147034

00:54:06.680 --> 00:54:07.954 Josh, you say.

NOTE Confidence: 0.851492524147034

00:54:07.954 --> 00:54:10.486 Some companies have a greater appetite

NOTE Confidence: 0.851492524147034

00:54:10.486 --> 00:54:13.138 for that type of early platform.

NOTE Confidence: 0.851492524147034

00:54:13.140 --> 00:54:15.726 They don't want to miss out

NOTE Confidence: 0.851492524147034

00:54:15.726 --> 00:54:17.019 type of approach.

NOTE Confidence: 0.851492524147034

00:54:17.020 --> 00:54:18.313 What distinguishes those

NOTE Confidence: 0.851492524147034

00:54:18.313 --> 00:54:20.037 companies from their peers?

NOTE Confidence: 0.839808404445648

00:54:21.050 --> 00:54:22.538 Some of its corporate

NOTE Confidence: 0.839808404445648

00:54:22.538 --> 00:54:24.026 structure and an individual.

NOTE Confidence: 0.839808404445648

00:54:24.030 --> 00:54:25.900 The force of individual personality,

NOTE Confidence: 0.839808404445648

00:54:25.900 --> 00:54:28.240 which is the most surprising and

NOTE Confidence: 0.839808404445648

00:54:28.240 --> 00:54:30.435 Lee satisfies ING answer and give

NOTE Confidence: 0.839808404445648

00:54:30.435 --> 00:54:32.675 you so you know you've been in a

NOTE Confidence: 0.839808404445648

00:54:32.753 --> 00:54:35.218 complicated room of decision makers.

NOTE Confidence: 0.839808404445648

00:54:35.220 --> 00:54:37.866 There are some rooms that are dominated

NOTE Confidence: 0.839808404445648

00:54:37.866 --> 00:54:40.069 by certain voices that and those,

NOTE Confidence: 0.839808404445648

00:54:40.070 --> 00:54:42.308 and that's separate from their title.

NOTE Confidence: 0.839808404445648

00:54:42.310 --> 00:54:44.605 Sometimes an some others have

NOTE Confidence: 0.839808404445648

00:54:44.605 --> 00:54:46.441 org structures that represent

NOTE Confidence: 0.839808404445648

00:54:46.441 --> 00:54:48.983 that you know who's at the top is

NOTE Confidence: 0.839808404445648

00:54:48.983 --> 00:54:51.277 that is the CEO of the company.

NOTE Confidence: 0.839808404445648

00:54:51.280 --> 00:54:53.464 Does he come out of commercial or

NOTE Confidence: 0.839808404445648

00:54:53.464 --> 00:54:56.029 does he come out of research or she?

NOTE Confidence: 0.839808404445648

00:54:56.030 --> 00:54:58.277 It's a very what is the last

NOTE Confidence: 0.839808404445648

00:54:58.277 --> 00:55:00.476 board meeting they had and what

NOTE Confidence: 0.839808404445648

00:55:00.476 --> 00:55:02.421 pressures did the executive team

NOTE Confidence: 0.839808404445648

00:55:02.421 --> 00:55:04.498 feel coming out of that board?

NOTE Confidence: 0.839808404445648

00:55:04.500 --> 00:55:04.838 Meeting?

NOTE Confidence: 0.839808404445648

00:55:04.838 --> 00:55:06.528 Was the board feeling like

NOTE Confidence: 0.839808404445648

00:55:06.528 --> 00:55:08.390 cash poor and risk averse?

NOTE Confidence: 0.839808404445648

00:55:08.390 --> 00:55:10.370 Or was the where they fear

NOTE Confidence: 0.839808404445648

00:55:10.370 --> 00:55:12.107 of missing out because their

NOTE Confidence: 0.839808404445648

00:55:12.107 --> 00:55:14.515 competitor just did a big deal that

NOTE Confidence: 0.839808404445648

00:55:14.515 --> 00:55:16.383 they feel embarrassed that they

NOTE Confidence: 0.839808404445648

00:55:16.383 --> 00:55:18.980 didn't get to look at like these?

NOTE Confidence: 0.839808404445648

00:55:18.980 --> 00:55:20.740 Are these like incredibly soft,

NOTE Confidence: 0.839808404445648

00:55:20.740 --> 00:55:21.432 unknowable things?

NOTE Confidence: 0.839808404445648

00:55:21.432 --> 00:55:23.508 That that prevent me from really

NOTE Confidence: 0.839808404445648

00:55:23.508 --> 00:55:25.486 answering you in a in a coherent way.

NOTE Confidence: 0.842728435993195

00:55:26.020 --> 00:55:29.016 But you know, at you've been on

NOTE Confidence: 0.842728435993195

00:55:29.016 --> 00:55:32.300 the other side of the CEO of A

NOTE Confidence: 0.842728435993195

00:55:32.300 --> 00:55:35.165 of a smaller company that was now

NOTE Confidence: 0.842728435993195

00:55:35.165 --> 00:55:37.745 now you're on the other side.

NOTE Confidence: 0.842728435993195

00:55:37.750 --> 00:55:40.648 How can you as a CEO of a biotech

NOTE Confidence: 0.842728435993195

00:55:40.648 --> 00:55:43.349 position yourself so that you can take

NOTE Confidence: 0.842728435993195

00:55:43.349 --> 00:55:46.193 advantage of some of these unique

NOTE Confidence: 0.842728435993195

00:55:46.193 --> 00:55:48.649 characteristics of the marketplace?

NOTE Confidence: 0.842728435993195

00:55:48.650 --> 00:55:51.158 Can you create a market without

NOTE Confidence: 0.842728435993195

00:55:51.158 --> 00:55:53.669 losing the bird in the hand?

NOTE Confidence: 0.866403996944427

00:55:56.330 --> 00:55:58.020 What do you mean by

NOTE Confidence: 0.866403996944427

00:55:58.020 --> 00:55:59.710 burden when you're when you

NOTE Confidence: 0.866403996944427

00:55:59.710 --> 00:56:01.400 want to sell yourself right?

NOTE Confidence: 0.866403996944427

00:56:01.400 --> 00:56:04.104 If you get an Overture, how do you

NOTE Confidence: 0.866403996944427

00:56:04.104 --> 00:56:06.470 make sure that your company is is?

NOTE Confidence: 0.866403996944427

00:56:06.470 --> 00:56:09.166 What is the market value of your company?

NOTE Confidence: 0.866403996944427

00:56:09.170 --> 00:56:11.536 If you only have one interested party?

NOTE Confidence: 0.844939947128296

00:56:14.110 --> 00:56:16.030 Well, if you look at like

NOTE Confidence: 0.844939947128296

00:56:16.030 --> 00:56:17.630 Form 14 SEC documents that

NOTE Confidence: 0.844939947128296

00:56:17.705 --> 00:56:19.305 describe the anatomy of most

NOTE Confidence: 0.844939947128296

00:56:19.305 --> 00:56:21.885 M and a deals 70% of them are

NOTE Confidence: 0.844939947128296

00:56:21.885 --> 00:56:23.660 one party deals, there's all.

NOTE Confidence: 0.844939947128296

00:56:23.660 --> 00:56:25.660 There's not a competitive process.

NOTE Confidence: 0.844939947128296

00:56:25.660 --> 00:56:28.036 So that's just that's just how it goes.

NOTE Confidence: 0.844939947128296

00:56:28.040 --> 00:56:30.068 The majority of the time there's

NOTE Confidence: 0.844939947128296

00:56:30.068 --> 00:56:32.169 only one party at the table.

NOTE Confidence: 0.844939947128296

00:56:32.170 --> 00:56:34.105 The second assumption I always

NOTE Confidence: 0.844939947128296

00:56:34.105 --> 00:56:36.434 make is every company that's pre

NOTE Confidence: 0.844939947128296

00:56:36.434 --> 00:56:38.730 commercial is for sale at all times.

NOTE Confidence: 0.844939947128296

00:56:38.730 --> 00:56:41.626 So like the notion that like there's this

NOTE Confidence: 0.844939947128296

00:56:41.626 --> 00:56:44.387 board of Directors or investor base,

NOTE Confidence: 0.844939947128296

00:56:44.390 --> 00:56:47.214 that's hoping that's holding out, you know,

NOTE Confidence: 0.844939947128296

00:56:47.214 --> 00:56:49.224 most credible offers are considered,

NOTE Confidence: 0.844939947128296

00:56:49.230 --> 00:56:50.610 and it usually taken,

NOTE Confidence: 0.844939947128296

00:56:50.610 --> 00:56:53.735 so I don't really see this sort of

NOTE Confidence: 0.844939947128296

00:56:53.735 --> 00:56:55.699 waiting for perfection mentality.

NOTE Confidence: 0.844939947128296

00:56:55.700 --> 00:56:56.909 Everybody's for sale.

NOTE Confidence: 0.844939947128296

00:56:56.909 --> 00:56:58.924 If you're a public company,

NOTE Confidence: 0.844939947128296

00:56:58.930 --> 00:57:01.594 your prices listed on the ticker

NOTE Confidence: 0.844939947128296

00:57:01.594 --> 00:57:03.791 everyday there's some takeover premium

NOTE Confidence: 0.844939947128296

00:57:03.791 --> 00:57:06.199 that needs to be added to that.

NOTE Confidence: 0.844939947128296

00:57:06.200 --> 00:57:09.488 Whether that's a 20% premium or 100% premium.

NOTE Confidence: 0.844939947128296

00:57:09.488 --> 00:57:12.694 Is sort of up to the multiparty

NOTE Confidence: 0.844939947128296

00:57:12.694 --> 00:57:15.689 dynamic that you alluded to earlier,

NOTE Confidence: 0.844939947128296

00:57:15.690 --> 00:57:18.612 or the swagger of your banker

NOTE Confidence: 0.844939947128296

00:57:18.612 --> 00:57:22.509 and your CEO or just the lacquer?

NOTE Confidence: 0.844939947128296

00:57:22.510 --> 00:57:24.365 Black of discipline or intense

NOTE Confidence: 0.844939947128296

00:57:24.365 --> 00:57:25.849 discipline of the counterparty?

NOTE Confidence: 0.844939947128296

00:57:25.850 --> 00:57:27.326 I mean, I can't.

NOTE Confidence: 0.844939947128296

00:57:27.326 --> 00:57:29.171 These are incredibly like human

NOTE Confidence: 0.844939947128296

00:57:29.171 --> 00:57:31.038 one off moments in time,

NOTE Confidence: 0.844939947128296

00:57:31.040 --> 00:57:33.158 like there's again no strategic way

NOTE Confidence: 0.844939947128296

00:57:33.158 --> 00:57:36.237 that I can give you first order advice.

NOTE Confidence: 0.844939947128296

00:57:36.240 --> 00:57:37.652 Just spin my Tim.

NOTE Confidence: 0.844939947128296

00:57:37.652 --> 00:57:40.636 What have you seen is as a board

NOTE Confidence: 0.844939947128296

00:57:40.636 --> 00:57:41.797 member in this.

NOTE Confidence: 0.911381900310516

00:57:42.360 --> 00:57:46.429 And I agree, I think. First of all,

NOTE Confidence: 0.911381900310516

00:57:46.429 --> 00:57:48.667 most most lemonades are one party,

NOTE Confidence: 0.911381900310516

00:57:48.670 --> 00:57:51.937 and as you know, so the notion of this

NOTE Confidence: 0.911381900310516

00:57:51.937 --> 00:57:54.257 competitive processes is not the norm,

NOTE Confidence: 0.911381900310516

00:57:54.260 --> 00:57:56.130 it's it's usually the exception.

NOTE Confidence: 0.911381900310516

00:57:56.130 --> 00:57:59.091 But I do think I do think most boards

NOTE Confidence: 0.911381900310516

00:57:59.091 --> 00:58:02.100 have to be open to respectable offers.

NOTE Confidence: 0.911381900310516

00:58:02.100 --> 00:58:04.338 You know 'cause boards are representing

NOTE Confidence: 0.911381900310516

00:58:04.338 --> 00:58:05.830 the interests of shareholders,

NOTE Confidence: 0.911381900310516

00:58:05.830 --> 00:58:08.476 so I'm going to have a

NOTE Confidence: 0.911381900310516

00:58:08.476 --> 00:58:10.240 responsibility to entertain any.

NOTE Confidence: 0.911381900310516

00:58:10.240 --> 00:58:12.060 Any offer behalf of investors.

NOTE Confidence: 0.911381900310516

00:58:12.060 --> 00:58:15.318 I think it's it's all fair game I guess.

NOTE Confidence: 0.911381900310516

00:58:15.320 --> 00:58:17.498 Just one follow up with Josh.

NOTE Confidence: 0.911381900310516

00:58:17.500 --> 00:58:21.004 So like what would be your advice too?

NOTE Confidence: 0.911381900310516

00:58:21.010 --> 00:58:23.090 You know the panelists here,

NOTE Confidence: 0.911381900310516

00:58:23.090 --> 00:58:24.746 or an academic sitting

NOTE Confidence: 0.911381900310516

00:58:24.746 --> 00:58:26.816 in the audience if they,

NOTE Confidence: 0.911381900310516

00:58:26.820 --> 00:58:29.788 if they wanted to really check for real

NOTE Confidence: 0.911381900310516

00:58:29.788 --> 00:58:32.473 interest in their technology within a

NOTE Confidence: 0.911381900310516

00:58:32.473 --> 00:58:35.536 big pharma company, what would you say?

NOTE Confidence: 0.911381900310516

00:58:35.536 --> 00:58:37.858 Is that the key?

NOTE Confidence: 0.911381900310516

00:58:37.860 --> 00:58:39.954 To making sure that whatever that

NOTE Confidence: 0.911381900310516

00:58:39.954 --> 00:58:41.964 interaction is will give a person

NOTE Confidence: 0.911381900310516

00:58:41.964 --> 00:58:43.896 quality feedback is is there a way

NOTE Confidence: 0.911381900310516

00:58:43.896 --> 00:58:45.964 to get that or is it you think

NOTE Confidence: 0.911381900310516

00:58:45.964 --> 00:58:48.185 it's a little bit of a hit or

NOTE Confidence: 0.911381900310516

00:58:48.185 --> 00:58:49.955 miss in a large farm environment?

NOTE Confidence: 0.911381900310516

00:58:49.955 --> 00:58:50.250 Yeah,

NOTE Confidence: 0.911381900310516

00:58:50.250 --> 00:58:52.048 and then let's do large farm

NOTE Confidence: 0.911381900310516

00:58:52.048 --> 00:58:54.358 and then go down to you know

NOTE Confidence: 0.911381900310516

00:58:54.358 --> 00:58:56.468 how biotech might be different?

NOTE Confidence: 0.911381900310516

00:58:56.470 --> 00:58:56.900 It's

NOTE Confidence: 0.904070317745209

00:58:56.900 --> 00:59:01.418 it's important to have a champion in in R&D.

NOTE Confidence: 0.904070317745209

00:59:01.420 --> 00:59:03.128 Who has influence in?

NOTE Confidence: 0.904070317745209

00:59:03.128 --> 00:59:06.131 In the company and can drive to

NOTE Confidence: 0.904070317745209

00:59:06.131 --> 00:59:08.581 a deal and I think it's always

NOTE Confidence: 0.904070317745209

00:59:08.581 --> 00:59:11.508 best to have R&D level champions.

NOTE Confidence: 0.904070317745209

00:59:11.510 --> 00:59:13.729 I mean there are other sources of

NOTE Confidence: 0.904070317745209

00:59:13.729 --> 00:59:15.291 capital and large farmers like

NOTE Confidence: 0.904070317745209

00:59:15.291 --> 00:59:17.475 a lot of them have some kind of

NOTE Confidence: 0.904070317745209

00:59:17.544 --> 00:59:19.409 sort of internal venture fund,

NOTE Confidence: 0.904070317745209

00:59:19.410 --> 00:59:21.110 or they'll make strategic passive

NOTE Confidence: 0.904070317745209

00:59:21.110 --> 00:59:22.810 investments that sort of without

NOTE Confidence: 0.904070317745209

00:59:22.869 --> 00:59:24.465 real buy in from R&D sometimes,

NOTE Confidence: 0.904070317745209

00:59:24.470 --> 00:59:27.143 or like token by in so I think those

NOTE Confidence: 0.904070317745209

00:59:27.143 --> 00:59:30.046 are usually the two parties that most.

NOTE Confidence: 0.904070317745209

00:59:30.050 --> 00:59:31.965 Small companies interact with either

NOTE Confidence: 0.904070317745209

00:59:31.965 --> 00:59:34.603 the you know the the VC group

NOTE Confidence: 0.904070317745209

00:59:34.603 --> 00:59:36.565 within the company or the R&D.

NOTE Confidence: 0.904070317745209

00:59:36.570 --> 00:59:38.950 I think if you're in a series

NOTE Confidence: 0.904070317745209

00:59:38.950 --> 00:59:40.751 of meetings where the seniority

NOTE Confidence: 0.904070317745209

00:59:40.751 --> 00:59:43.229 of the attendees is not going up

NOTE Confidence: 0.904070317745209

00:59:43.229 --> 00:59:44.890 or staying the same,

NOTE Confidence: 0.904070317745209

00:59:44.890 --> 00:59:47.596 you're not seeing things in writing.

NOTE Confidence: 0.904070317745209

00:59:47.600 --> 00:59:49.840 You don't feel like you're on a

NOTE Confidence: 0.904070317745209

00:59:49.840 --> 00:59:51.653 timeline like the diligence field

NOTE Confidence: 0.904070317745209

00:59:51.653 --> 00:59:53.613 goal post keeps shifting around

NOTE Confidence: 0.904070317745209

00:59:53.613 --> 00:59:56.098 on like what the next steps are.

NOTE Confidence: 0.904070317745209

00:59:56.100 --> 00:59:58.924 I think those are all subtle clues that

NOTE Confidence: 0.904070317745209

00:59:58.930 --> 01:00:01.402 it's kind of going sideways and then,

NOTE Confidence: 0.904070317745209

01:00:01.402 --> 01:00:02.818 on the other hand,

NOTE Confidence: 0.904070317745209

01:00:02.820 --> 01:00:04.920 if you really seeing like a focused

NOTE Confidence: 0.904070317745209

01:00:04.920 --> 01:00:07.122 effort to get something done and

NOTE Confidence: 0.904070317745209

01:00:07.122 --> 01:00:09.187 you're seeing consistency of voice,

NOTE Confidence: 0.904070317745209

01:00:09.190 --> 01:00:10.960 not just in your conversation,

NOTE Confidence: 0.904070317745209

01:00:10.960 --> 01:00:12.730 but with Yale Tech Transfer,

NOTE Confidence: 0.904070317745209

01:00:12.730 --> 01:00:14.150 that's an encouraging sign.

NOTE Confidence: 0.86003053188324

01:00:15.720 --> 01:00:16.462 Great, thanks.

NOTE Confidence: 0.86003053188324

01:00:16.462 --> 01:00:18.688 So we're going to shift some

NOTE Confidence: 0.86003053188324

01:00:18.688 --> 01:00:20.714 questions from the audience. Again.

NOTE Confidence: 0.86003053188324

01:00:20.714 --> 01:00:23.018 Just remind the audience that again,

NOTE Confidence: 0.86003053188324

01:00:23.020 --> 01:00:24.940 we've disabled the chat room,

NOTE Confidence: 0.86003053188324

01:00:24.940 --> 01:00:28.004 so if you want to ask a question,

NOTE Confidence: 0.86003053188324

01:00:28.010 --> 01:00:30.747 raise your hand and then the people

NOTE Confidence: 0.86003053188324

01:00:30.747 --> 01:00:33.098 supporting the logistics will engage with

NOTE Confidence: 0.86003053188324

01:00:33.098 --> 01:00:35.695 you and will get your question answered.

NOTE Confidence: 0.86003053188324

01:00:35.700 --> 01:00:39.130 Irmo Glaser has a question.

NOTE Confidence: 0.86003053188324

01:00:39.130 --> 01:00:40.747 Asked if you can open the mic.

NOTE Confidence: 0.857857882976532

01:00:49.320 --> 01:00:53.680 And yet Go ahead your mikes,

NOTE Confidence: 0.857857882976532

01:00:53.680 --> 01:00:57.170 open anything. No, not yet. Gamma,

NOTE Confidence: 0.857857882976532

01:00:57.170 --> 01:01:03.050 it looks like your Mike still baby muted.

NOTE Confidence: 0.914929866790771

01:01:07.070 --> 01:01:11.320 OK, try now. Thank you very much.

NOTE Confidence: 0.931177705526352

01:01:11.320 --> 01:01:15.935 I like to. No. Whether

NOTE Confidence: 0.931177705526352

01:01:15.935 --> 01:01:17.509 there are guidelines, I

NOTE Confidence: 0.863902449607849

01:01:17.510 --> 01:01:20.040 am like a an investor.

NOTE Confidence: 0.863902449607849

01:01:20.040 --> 01:01:22.470 Just looking around if

NOTE Confidence: 0.865689635276794

01:01:22.470 --> 01:01:27.310 there are guidelines as to. How

NOTE Confidence: 0.897919267416

01:01:27.310 --> 01:01:31.760 do they? The pitch people.

NOTE Confidence: 0.846987843513489

01:01:31.760 --> 01:01:35.600 Speech to investors to make sure that

NOTE Confidence: 0.846987843513489

01:01:35.600 --> 01:01:38.900 all the basic Yale ethical considerations

NOTE Confidence: 0.846987843513489

01:01:38.900 --> 01:01:40.538 are in place.

NOTE Confidence: 0.846987843513489

01:01:40.540 --> 01:01:42.740 In other words, how

NOTE Confidence: 0.846987843513489

01:01:42.740 --> 01:01:44.390 do we know

NOTE Confidence: 0.846987843513489

01:01:44.390 --> 01:01:47.130 that the information they are

NOTE Confidence: 0.846987843513489

01:01:47.130 --> 01:01:48.780 giving us 100%?

NOTE Confidence: 0.589290702342987

01:01:49.480 --> 01:01:54.705 Size base are not. Dangit by the the

NOTE Confidence: 0.589290702342987

01:01:54.705 --> 01:01:59.020 interest in getting funding. To be very

NOTE Confidence: 0.80892539024353

01:01:59.020 --> 01:02:02.205 blunt, great yeah, thanks for the question.

NOTE Confidence: 0.80892539024353

01:02:02.210 --> 01:02:04.946 Thinking jump useless to you around.

NOTE Confidence: 0.80892539024353

01:02:04.950 --> 01:02:08.847 Maybe you can speak a little bit about sort

NOTE Confidence: 0.80892539024353

01:02:08.847 --> 01:02:13.148 of the venues use for this purposes as well

NOTE Confidence: 0.80892539024353

01:02:13.150 --> 01:02:17.254 as sort of the curation of what goes in.

NOTE Confidence: 0.80892539024353

01:02:17.260 --> 01:02:19.540 Sure, thanks Tim. So gramma.

NOTE Confidence: 0.80892539024353

01:02:19.540 --> 01:02:21.320 Thanks for your question.

NOTE Confidence: 0.80892539024353

01:02:21.320 --> 01:02:23.990 So when we have faculty pitching

NOTE Confidence: 0.80892539024353

01:02:24.074 --> 01:02:26.379 to investors or two companies,

NOTE Confidence: 0.80892539024353

01:02:26.380 --> 01:02:29.176 they're generally working very closely with.

NOTE Confidence: 0.80892539024353

01:02:29.180 --> 01:02:31.010 The with OCR with my colleagues

NOTE Confidence: 0.80892539024353

01:02:31.010 --> 01:02:33.309 here in the Tech Transfer Office.

NOTE Confidence: 0.80892539024353

01:02:33.310 --> 01:02:35.536 So for example I had mentioned earlier

NOTE Confidence: 0.80892539024353

01:02:35.536 --> 01:02:38.011 in the chat that there's a pitch

NOTE Confidence: 0.80892539024353

01:02:38.011 --> 01:02:40.189 fest being held in earlier December.

NOTE Confidence: 0.80892539024353

01:02:40.190 --> 01:02:42.194 These are the applicants for our

NOTE Confidence: 0.80892539024353

01:02:42.194 --> 01:02:43.970 Blavatnik Fund for Innovation Awards,

NOTE Confidence: 0.80892539024353

01:02:43.970 --> 01:02:45.992 so these faculty I think there's

NOTE Confidence: 0.80892539024353

01:02:45.992 --> 01:02:48.100 about 30 of them this year.

NOTE Confidence: 0.80892539024353

01:02:48.100 --> 01:02:50.030 Have all applied for this award.

NOTE Confidence: 0.80892539024353

01:02:50.030 --> 01:02:51.530 They're giving 5 minute pitches

NOTE Confidence: 0.80892539024353

01:02:51.530 --> 01:02:53.259 in their coached extensively,

NOTE Confidence: 0.80892539024353

01:02:53.260 --> 01:02:55.318 not only by people in the

NOTE Confidence: 0.80892539024353

01:02:55.320 --> 01:02:56.358 tech transfer office,

NOTE Confidence: 0.80892539024353

01:02:56.360 --> 01:02:58.466 but also by a board of

NOTE Confidence: 0.80892539024353

01:02:58.466 --> 01:02:59.519 reviewers which includes.

NOTE Confidence: 0.80892539024353

01:02:59.520 --> 01:03:01.580 Investors and also people from

NOTE Confidence: 0.80892539024353

01:03:01.580 --> 01:03:04.163 corporate VC funds as well as

NOTE Confidence: 0.80892539024353

01:03:04.163 --> 01:03:06.851 people in the pharma and biotech

NOTE Confidence: 0.80892539024353

01:03:06.851 --> 01:03:08.680 community are entrepreneur in

NOTE Confidence: 0.80892539024353

01:03:08.680 --> 01:03:10.725 residence network and you know,

NOTE Confidence: 0.80892539024353

01:03:10.730 --> 01:03:14.112 I think we all expect that Yale faculty

NOTE Confidence: 0.80892539024353

01:03:14.112 --> 01:03:16.919 are going to adhere to the highest

NOTE Confidence: 0.80892539024353

01:03:16.919 --> 01:03:18.663 standards of scientific integrity

NOTE Confidence: 0.80892539024353

01:03:18.663 --> 01:03:21.617 when there's any kind of conflict of

NOTE Confidence: 0.80892539024353

01:03:21.694 --> 01:03:24.089 interest management plan in place,

NOTE Confidence: 0.80892539024353

01:03:24.090 --> 01:03:26.778 faculty are expected to make those

NOTE Confidence: 0.80892539024353

01:03:26.778 --> 01:03:28.570 those financial interests known

NOTE Confidence: 0.80892539024353

01:03:28.639 --> 01:03:30.879 publicly when in publications or.

NOTE Confidence: 0.80892539024353

01:03:30.880 --> 01:03:32.068 Nations or the like.

NOTE Confidence: 0.80892539024353

01:03:32.068 --> 01:03:34.470 So I hope that answers your question.

NOTE Confidence: 0.794482810930772

01:03:36.880 --> 01:03:39.904 Thanks John. I think there's been a

NOTE Confidence: 0.794482810930772

01:03:39.904 --> 01:03:42.389 couple mentions of the Botnick program

NOTE Confidence: 0.794482810930772

01:03:42.389 --> 01:03:45.929 I think runs you had it in the slides.

NOTE Confidence: 0.794482810930772

01:03:45.930 --> 01:03:47.766 I think some of the panels

NOTE Confidence: 0.794482810930772

01:03:47.766 --> 01:03:49.380 have been involved in this.

NOTE Confidence: 0.794482810930772

01:03:49.380 --> 01:03:51.838 I think John you just mentioned, maybe John.

NOTE Confidence: 0.794482810930772

01:03:51.838 --> 01:03:53.826 I don't know if you'd be best

NOTE Confidence: 0.794482810930772

01:03:53.826 --> 01:03:56.037 or even Ranji just to speak a

NOTE Confidence: 0.794482810930772

01:03:56.037 --> 01:03:57.860 little bit about that program.

NOTE Confidence: 0.794482810930772

01:03:57.860 --> 01:04:00.044 'cause again I think it's one of the

NOTE Confidence: 0.794482810930772

01:04:00.044 --> 01:04:02.259 key parts of the infrastructure here.

NOTE Confidence: 0.794482810930772

01:04:02.260 --> 01:04:03.825 Trying to help sure bridge

NOTE Confidence: 0.794482810930772

01:04:03.825 --> 01:04:04.764 academia into commercialization.

NOTE Confidence: 0.790457308292389

01:04:05.330 --> 01:04:09.860 Yeah, I can give a little bit of an overview,

NOTE Confidence: 0.790457308292389

01:04:09.860 --> 01:04:12.674 so yells been very lucky and we're

NOTE Confidence: 0.790457308292389

01:04:12.674 --> 01:04:15.968 very grateful to have a generous award

NOTE Confidence: 0.790457308292389

01:04:15.968 --> 01:04:18.468 from the Bubonic Family Foundation.

NOTE Confidence: 0.790457308292389

01:04:18.470 --> 01:04:21.662 This is an award or foundation set up

NOTE Confidence: 0.790457308292389

01:04:21.662 --> 01:04:24.539 by Lindblad Botnek and similar awards

NOTE Confidence: 0.790457308292389

01:04:24.539 --> 01:04:27.521 been made to Harvard into Columbia,

NOTE Confidence: 0.790457308292389

01:04:27.530 --> 01:04:30.248 so yells received a total of,

NOTE Confidence: 0.790457308292389

01:04:30.250 --> 01:04:32.510 I think, $25,000,000 from the

NOTE Confidence: 0.790457308292389

01:04:32.510 --> 01:04:33.866 Bubonic Family Foundation.

NOTE Confidence: 0.790457308292389

01:04:33.870 --> 01:04:36.160 And this is used to.

NOTE Confidence: 0.790457308292389

01:04:36.160 --> 01:04:38.740 Fund projects at Yale that have

NOTE Confidence: 0.790457308292389

01:04:38.740 --> 01:04:40.923 significant potential to have an

NOTE Confidence: 0.790457308292389

01:04:40.923 --> 01:04:43.275 impact on human health and medicine.

NOTE Confidence: 0.790457308292389

01:04:43.280 --> 01:04:46.400 And every year we have a contest amongst

NOTE Confidence: 0.790457308292389

01:04:46.400 --> 01:04:49.284 faculty at Yale who apply for these

NOTE Confidence: 0.790457308292389

01:04:49.284 --> 01:04:52.080 awards there between 100 and $300,000,

NOTE Confidence: 0.790457308292389

01:04:52.080 --> 01:04:54.600 and generally these are quite competitive.

NOTE Confidence: 0.790457308292389

01:04:54.600 --> 01:04:57.610 I would say there are significantly more

NOTE Confidence: 0.790457308292389

01:04:57.610 --> 01:05:00.876 competitive than I jar one award for example,

NOTE Confidence: 0.790457308292389

01:05:00.880 --> 01:05:02.932 and some of these have already

NOTE Confidence: 0.790457308292389

01:05:02.932 --> 01:05:05.441 advanced to the point of having

NOTE Confidence: 0.790457308292389

01:05:05.441 --> 01:05:07.589 significant venture capital investment.

NOTE Confidence: 0.790457308292389

01:05:07.590 --> 01:05:08.946 So for example, city.

NOTE Confidence: 0.790457308292389

01:05:08.946 --> 01:05:10.641 Had launched a company last

NOTE Confidence: 0.790457308292389

01:05:10.641 --> 01:05:12.430 year called Evolved Immune,

NOTE Confidence: 0.790457308292389

01:05:12.430 --> 01:05:14.452 which raised I think something like

NOTE Confidence: 0.790457308292389

01:05:14.452 --> 01:05:16.589 35 or $36,000,000 in and arround,

NOTE Confidence: 0.790457308292389

01:05:16.590 --> 01:05:18.492 and this was based on research

NOTE Confidence: 0.790457308292389

01:05:18.492 --> 01:05:20.962 that was in part funded by the

NOTE Confidence: 0.790457308292389

01:05:20.962 --> 01:05:22.466 Bubonic Award and Ranjit.

NOTE Confidence: 0.790457308292389

01:05:22.470 --> 01:05:24.195 I know you've applied for

NOTE Confidence: 0.790457308292389

01:05:24.195 --> 01:05:25.575 the award this year,

NOTE Confidence: 0.790457308292389

01:05:25.580 --> 01:05:27.686 you could talk perhaps a little

NOTE Confidence: 0.790457308292389

01:05:27.686 --> 01:05:29.499 bit about your experience or

NOTE Confidence: 0.790457308292389

01:05:29.499 --> 01:05:31.194 city talk about your experience

NOTE Confidence: 0.790457308292389

01:05:31.194 --> 01:05:33.278 and in going through the process

NOTE Confidence: 0.790457308292389

01:05:33.278 --> 01:05:35.264 perhaps they are happy to know.

NOTE Confidence: 0.790457308292389

01:05:35.270 --> 01:05:35.620 See

NOTE Confidence: 0.794460475444794

01:05:35.620 --> 01:05:37.748 if you want to go first or

NOTE Confidence: 0.794460475444794

01:05:37.748 --> 01:05:39.490 some not dominate discussion.

NOTE Confidence: 0.794460475444794

01:05:39.490 --> 01:05:42.616 Oh sure, I think the bubonic.

NOTE Confidence: 0.819882035255432

01:05:42.620 --> 01:05:45.230 Our process is extremely rigorous.

NOTE Confidence: 0.819882035255432

01:05:45.230 --> 01:05:48.764 We went through multiple rounds of

NOTE Confidence: 0.819882035255432

01:05:48.764 --> 01:05:51.500 training and multiple rounds of.

NOTE Confidence: 0.819882035255432

01:05:51.500 --> 01:05:53.135 Discussion internally first,

NOTE Confidence: 0.819882035255432

01:05:53.135 --> 01:05:56.950 fully badly the signs and then extensive

NOTE Confidence: 0.819882035255432

01:05:57.033 --> 01:05:59.798 discussion with the other partners.

NOTE Confidence: 0.819882035255432

01:05:59.800 --> 01:06:03.368 And we are fortunate to be funded based

NOTE Confidence: 0.819882035255432

01:06:03.368 --> 01:06:08.260 on the science by the panel of extensive

NOTE Confidence: 0.819882035255432

01:06:08.260 --> 01:06:10.860 community from multiple entities,

NOTE Confidence: 0.819882035255432

01:06:10.860 --> 01:06:12.892 including academic industry venture.

NOTE Confidence: 0.819882035255432

01:06:12.892 --> 01:06:15.940 And then we're able to advance

NOTE Confidence: 0.819882035255432

01:06:16.020 --> 01:06:18.220 science because of the award,

NOTE Confidence: 0.819882035255432

01:06:18.220 --> 01:06:20.312 and then eventually able

NOTE Confidence: 0.819882035255432

01:06:20.312 --> 01:06:22.927 to create a startup so.

NOTE Confidence: 0.819882035255432

01:06:22.930 --> 01:06:23.848 Yeah, yeah I'll

NOTE Confidence: 0.833359837532043

01:06:23.850 --> 01:06:24.765 just. I mean,

NOTE Confidence: 0.833359837532043

01:06:24.765 --> 01:06:26.290 I've absolutely loved the process.

NOTE Confidence: 0.833359837532043

01:06:26.290 --> 01:06:28.593 You know, we started a company called

NOTE Confidence: 0.833359837532043

01:06:28.593 --> 01:06:30.557 Cyber Exca Therapeutics a few years back,

NOTE Confidence: 0.833359837532043

01:06:30.560 --> 01:06:32.506 and that was not through this process

NOTE Confidence: 0.833359837532043

01:06:32.506 --> 01:06:34.944 and I was able to sort of compare

NOTE Confidence: 0.833359837532043

01:06:34.944 --> 01:06:36.960 contrast and the process for Athena,

NOTE Confidence: 0.833359837532043

01:06:36.960 --> 01:06:38.180 which was recently awarded

NOTE Confidence: 0.833359837532043

01:06:38.180 --> 01:06:39.400 above that Nick Grant,

NOTE Confidence: 0.833359837532043

01:06:39.400 --> 01:06:41.840 and we're in the middle of the award.

NOTE Confidence: 0.833359837532043

01:06:41.840 --> 01:06:43.968 I can tell you is it was a

NOTE Confidence: 0.833359837532043

01:06:43.968 --> 01:06:45.200 phenomenal learning experience.

NOTE Confidence: 0.833359837532043

01:06:45.200 --> 01:06:47.738 You know each round of the pitch is not

NOTE Confidence: 0.833359837532043

01:06:47.738 --> 01:06:50.075 only learn how to refine your pitch,

NOTE Confidence: 0.833359837532043

01:06:50.080 --> 01:06:52.089 but also from the VC folks on

NOTE Confidence: 0.833359837532043

01:06:52.089 --> 01:06:54.167 some of these calls would sort of

NOTE Confidence: 0.833359837532043

01:06:54.167 --> 01:06:56.560 give a lot of real time feedback.

NOTE Confidence: 0.833359837532043

01:06:56.560 --> 01:06:57.295 And you know,

NOTE Confidence: 0.833359837532043

01:06:57.295 --> 01:06:59.998 I I kind of think of it as a rapid

NOTE Confidence: 0.833359837532043

01:06:59.998 --> 01:07:01.523 acting SP IR that's internal

NOTE Confidence: 0.833359837532043

01:07:01.523 --> 01:07:03.200 to the Yelp Community.

NOTE Confidence: 0.833359837532043

01:07:03.200 --> 01:07:05.616 And so I think it's a great opportunity.

NOTE Confidence: 0.833359837532043

01:07:05.620 --> 01:07:08.150 It allows you to do a little bit of the

NOTE Confidence: 0.833359837532043

01:07:08.217 --> 01:07:10.744 risking still inside the walls of Yale.

NOTE Confidence: 0.833359837532043

01:07:10.750 --> 01:07:11.970 Before that, you know,

NOTE Confidence: 0.833359837532043

01:07:11.970 --> 01:07:14.080 startup really takes off into the air.

NOTE Confidence: 0.833359837532043

01:07:14.080 --> 01:07:14.684 So yeah,

NOTE Confidence: 0.833359837532043

01:07:14.684 --> 01:07:17.170 really a big fan.

NOTE Confidence: 0.817241728305817

01:07:17.170 --> 01:07:18.862 Yeah yeah, I'll just add from

NOTE Confidence: 0.817241728305817

01:07:18.862 --> 01:07:20.674 being part of some of those

NOTE Confidence: 0.817241728305817

01:07:20.674 --> 01:07:22.528 values for those in the audience.

NOTE Confidence: 0.817241728305817

01:07:22.530 --> 01:07:24.014 Maybe not as familiar

NOTE Confidence: 0.817241728305817

01:07:24.014 --> 01:07:25.498 with the ecosystem here.

NOTE Confidence: 0.817241728305817

01:07:25.500 --> 01:07:28.307 You know there there are multiple venues,

NOTE Confidence: 0.817241728305817

01:07:28.310 --> 01:07:30.320 whether it's provodnik pitch and

NOTE Confidence: 0.817241728305817

01:07:30.320 --> 01:07:33.260 even you know precursors of those.

NOTE Confidence: 0.817241728305817

01:07:33.260 --> 01:07:37.606 Where you know vetting goes on by, you know,

NOTE Confidence: 0.817241728305817

01:07:37.606 --> 01:07:40.987 people who you know been there before,

NOTE Confidence: 0.817241728305817

01:07:40.990 --> 01:07:42.922 including scientists, venture capital,

NOTE Confidence: 0.817241728305817

01:07:42.922 --> 01:07:45.337 people who really pressure test

NOTE Confidence: 0.817241728305817

01:07:45.337 --> 01:07:46.786 opportunities. So again,

NOTE Confidence: 0.817241728305817

01:07:46.786 --> 01:07:50.167 I think there's been a nice build,

NOTE Confidence: 0.817241728305817

01:07:50.170 --> 01:07:52.600 an infrastructure around Yale really to

NOTE Confidence: 0.817241728305817

01:07:52.600 --> 01:07:55.398 support that growth and mentoring of

NOTE Confidence: 0.817241728305817

01:07:55.398 --> 01:07:57.610 scientists interested in translating

NOTE Confidence: 0.817241728305817

01:07:57.610 --> 01:07:59.822 their research to commercialization.

NOTE Confidence: 0.817241728305817

01:07:59.830 --> 01:08:02.758 And the quality is high because

NOTE Confidence: 0.817241728305817

01:08:02.758 --> 01:08:04.222 of those interactions.

NOTE Confidence: 0.817241728305817

01:08:04.230 --> 01:08:06.186 I do have a couple questions

NOTE Confidence: 0.817241728305817

01:08:06.186 --> 01:08:07.880 from the audience that were.

NOTE Confidence: 0.817241728305817

01:08:07.880 --> 01:08:10.575 Questions that that came in in advance.

NOTE Confidence: 0.817241728305817

01:08:10.580 --> 01:08:13.660 Let me put the first one out there.

NOTE Confidence: 0.817241728305817

01:08:13.660 --> 01:08:14.766 Maybe maybe.

NOTE Confidence: 0.817241728305817

01:08:14.766 --> 01:08:17.531 Ranjit and Josh just thinking

NOTE Confidence: 0.817241728305817

01:08:17.531 --> 01:08:20.729 about the nature of this question

NOTE Confidence: 0.817241728305817

01:08:20.729 --> 01:08:23.603 it might be addressed by you.

NOTE Confidence: 0.817241728305817

01:08:23.610 --> 01:08:25.101 The question is,

NOTE Confidence: 0.817241728305817

01:08:25.101 --> 01:08:27.089 are rare tumors disadvantaged?

NOTE Confidence: 0.817241728305817

01:08:27.090 --> 01:08:27.836 You know,

NOTE Confidence: 0.817241728305817

01:08:27.836 --> 01:08:30.074 and sort of this translation from

NOTE Confidence: 0.817241728305817

01:08:30.074 --> 01:08:32.290 from science to commercialization,

NOTE Confidence: 0.817241728305817

01:08:32.290 --> 01:08:34.450 and this is someone who's

NOTE Confidence: 0.817241728305817

01:08:34.450 --> 01:08:35.746 interested in units,

NOTE Confidence: 0.817241728305817

01:08:35.750 --> 01:08:37.482 primitive neuroactive dermal tumors.

NOTE Confidence: 0.817241728305817

01:08:37.482 --> 01:08:40.080 So how did Reggie I know?

NOTE Confidence: 0.817241728305817

01:08:40.080 --> 01:08:43.104 You have some interest in these areas?

NOTE Confidence: 0.817241728305817

01:08:43.110 --> 01:08:43.898 And Josh,

NOTE Confidence: 0.817241728305817

01:08:43.898 --> 01:08:47.050 I know you've had certain experience in and

NOTE Confidence: 0.817241728305817

01:08:47.125 --> 01:08:50.464 what might have been considered rare cancers.

NOTE Confidence: 0.817241728305817

01:08:50.470 --> 01:08:53.068 Maybe if you guys can just

NOTE Confidence: 0.83817712465922

01:08:53.070 --> 01:08:54.475 adjust that. Start 'cause I've

NOTE Confidence: 0.83817712465922

01:08:54.475 --> 01:08:56.158 learned so much from Josh and

NOTE Confidence: 0.83817712465922

01:08:56.158 --> 01:08:57.740 my time that I've known him and.

NOTE Confidence: 0.775295495986938

01:08:58.820 --> 01:09:03.620 Yeah, so the first drug I developed at

NOTE Confidence: 0.775295495986938

01:09:03.620 --> 01:09:07.878 box Oncology with was a TRK inhibitor.

NOTE Confidence: 0.775295495986938

01:09:07.880 --> 01:09:10.456 For a population that in the United States

NOTE Confidence: 0.775295495986938

01:09:10.456 --> 01:09:12.739 was probably about 2500 patients a year,

NOTE Confidence: 0.775295495986938

01:09:12.740 --> 01:09:14.987 assuming you could find every last one

NOTE Confidence: 0.775295495986938

01:09:14.987 --> 01:09:17.510 which you certainly couldn't because of the

NOTE Confidence: 0.775295495986938

01:09:17.510 --> 01:09:19.766 state of the diagnostic testing environment.

NOTE Confidence: 0.775295495986938

01:09:19.770 --> 01:09:22.378 So, like I candidly, I think Big Pharma

NOTE Confidence: 0.775295495986938

01:09:22.378 --> 01:09:25.186 is not seeking out those opportunities

NOTE Confidence: 0.775295495986938

01:09:25.186 --> 01:09:27.786 until there's an approved product.

NOTE Confidence: 0.775295495986938

01:09:27.790 --> 01:09:30.316 And then there's just so few.

NOTE Confidence: 0.775295495986938

01:09:30.320 --> 01:09:33.274 There's just so little in the cupboards

NOTE Confidence: 0.775295495986938

01:09:33.274 --> 01:09:35.852 of approved products that they can

NOTE Confidence: 0.775295495986938

01:09:35.852 --> 01:09:37.917 add to their commercial pipeline.

NOTE Confidence: 0.775295495986938

01:09:37.920 --> 01:09:39.935 They get interested after approval

NOTE Confidence: 0.775295495986938

01:09:39.935 --> 01:09:42.765 when they can begin to think about

NOTE Confidence: 0.775295495986938

01:09:42.765 --> 01:09:44.973 pricing and think about time on

NOTE Confidence: 0.775295495986938

01:09:44.973 --> 01:09:47.199 drug and prevalence modeling,

NOTE Confidence: 0.775295495986938

01:09:47.200 --> 01:09:50.600 and maybe they dare to dream once it's.

NOTE Confidence: 0.775295495986938

01:09:50.600 --> 01:09:51.803 It's FDA approved,

NOTE Confidence: 0.775295495986938

01:09:51.803 --> 01:09:54.209 but they almost never green light.

NOTE Confidence: 0.775295495986938

01:09:54.210 --> 01:09:55.215 An interim being,

NOTE Confidence: 0.775295495986938

01:09:55.215 --> 01:09:56.555 like really reductive here,

NOTE Confidence: 0.775295495986938

01:09:56.560 --> 01:09:59.240 and I'm not talking about my own company,

NOTE Confidence: 0.775295495986938

01:09:59.240 --> 01:10:00.910 which now I have some

NOTE Confidence: 0.775295495986938

01:10:00.910 --> 01:10:02.246 influence on their thinking,

NOTE Confidence: 0.775295495986938

01:10:02.250 --> 01:10:04.914 but I think I think most want to see

NOTE Confidence: 0.775295495986938

01:10:04.914 --> 01:10:07.503 that the commercial guys nip that in the

NOTE Confidence: 0.775295495986938

01:10:07.503 --> 01:10:10.630 Bud at a lot of large companies early.

NOTE Confidence: 0.775295495986938

01:10:10.630 --> 01:10:11.632 Let's just say,

NOTE Confidence: 0.775295495986938

01:10:11.632 --> 01:10:12.968 I think in contrast,

NOTE Confidence: 0.775295495986938

01:10:12.970 --> 01:10:15.112 Wall Street gives a lot of value

NOTE Confidence: 0.775295495986938

01:10:15.112 --> 01:10:16.660 to the rare company.

NOTE Confidence: 0.775295495986938

01:10:16.660 --> 01:10:18.670 The Wall Street places a premium

NOTE Confidence: 0.775295495986938

01:10:18.670 --> 01:10:20.010 on unlikelihood of success,

NOTE Confidence: 0.775295495986938

01:10:20.010 --> 01:10:22.410 and that's I think why rare tumors are

NOTE Confidence: 0.775295495986938

01:10:22.410 --> 01:10:24.370 exciting and that presumably there.

NOTE Confidence: 0.775295495986938

01:10:24.370 --> 01:10:26.102 Their mechanistically better understood,

NOTE Confidence: 0.775295495986938

01:10:26.102 --> 01:10:27.834 certain maybe more homogeneous

NOTE Confidence: 0.775295495986938

01:10:27.834 --> 01:10:30.104 in their in their their biologic

NOTE Confidence: 0.775295495986938

01:10:30.104 --> 01:10:31.784 drivers and therefore druggable with

NOTE Confidence: 0.775295495986938

01:10:31.784 --> 01:10:33.798 a higher probability of success,

NOTE Confidence: 0.775295495986938

01:10:33.800 --> 01:10:36.944 and so I always probable eyes success over.

NOTE Confidence: 0.775295495986938

01:10:36.950 --> 01:10:39.308 I always value PTS probability technical

NOTE Confidence: 0.775295495986938

01:10:39.308 --> 01:10:40.880 success over commercial potential,

NOTE Confidence: 0.775295495986938

01:10:40.880 --> 01:10:42.840 and I'm weird that way,

NOTE Confidence: 0.775295495986938

01:10:42.840 --> 01:10:45.584 but I think I think Wall Street.

NOTE Confidence: 0.775295495986938

01:10:45.590 --> 01:10:47.948 I think Wall Street gets it,

NOTE Confidence: 0.775295495986938

01:10:47.950 --> 01:10:50.694 they just want to see great data.

NOTE Confidence: 0.775295495986938

01:10:50.700 --> 01:10:52.768 They want to understand.

NOTE Confidence: 0.775295495986938

01:10:52.768 --> 01:10:54.836 Is this a company?

NOTE Confidence: 0.775295495986938

01:10:54.840 --> 01:10:57.220 That's going to be worth greater than

NOTE Confidence: 0.775295495986938

01:10:57.220 --> 01:10:59.850 zero on their leader programs or not.

NOTE Confidence: 0.775295495986938

01:10:59.850 --> 01:11:02.482 An being in a group of programs that

NOTE Confidence: 0.775295495986938

01:11:02.482 --> 01:11:05.300 is on the way to an FDA approval or

NOTE Confidence: 0.775295495986938

01:11:05.300 --> 01:11:09.295 not is a big fork in the road for the

NOTE Confidence: 0.775295495986938

01:11:09.295 --> 01:11:11.306 biotech investing universe out there.

NOTE Confidence: 0.775295495986938

01:11:11.306 --> 01:11:12.738 And small small companies.

NOTE Confidence: 0.775295495986938

01:11:12.740 --> 01:11:13.988 So like you know,

NOTE Confidence: 0.775295495986938

01:11:13.988 --> 01:11:15.548 there's companies out there company

NOTE Confidence: 0.775295495986938

01:11:15.548 --> 01:11:17.582 out there developing amenan inhibitor

NOTE Confidence: 0.775295495986938

01:11:17.582 --> 01:11:19.196 for mixed lineages, leukemia.

NOTE Confidence: 0.775295495986938

01:11:19.196 --> 01:11:19.928 You know,

NOTE Confidence: 0.775295495986938

01:11:19.928 --> 01:11:22.490 there's two companies out there doing it

NOTE Confidence: 0.775295495986938

01:11:22.551 --> 01:11:24.924 an they're able to attract capital and.

NOTE Confidence: 0.775295495986938

01:11:24.930 --> 01:11:27.126 In a following and people are

NOTE Confidence: 0.775295495986938

01:11:27.126 --> 01:11:29.170 excited about being exposed to that.

NOTE Confidence: 0.775295495986938

01:11:29.170 --> 01:11:31.452 That's not a kind of program you'll

NOTE Confidence: 0.775295495986938

01:11:31.452 --> 01:11:33.759 run across in most large pharmas,

NOTE Confidence: 0.775295495986938

01:11:33.760 --> 01:11:35.530 though.

NOTE Confidence: 0.775295495986938

01:11:35.530 --> 01:11:35.850 Yeah,

NOTE Confidence: 0.838542938232422

01:11:35.850 --> 01:11:37.740 and and I'll add, you know,

NOTE Confidence: 0.838542938232422

01:11:37.740 --> 01:11:40.268 as a sort of on the clinical side,

NOTE Confidence: 0.838542938232422

01:11:40.270 --> 01:11:41.855 there's really now and infrastructure

NOTE Confidence: 0.838542938232422

01:11:41.855 --> 01:11:44.420 that's allowing a lot of these rare tumor

NOTE Confidence: 0.838542938232422

01:11:44.420 --> 01:11:46.908 trials to progress much faster. As you know,

NOTE Confidence: 0.838542938232422

01:11:46.908 --> 01:11:48.488 adult pediatric brain tumor doctor.

NOTE Confidence: 0.838542938232422

01:11:48.490 --> 01:11:50.045 We've been working on things

NOTE Confidence: 0.838542938232422

01:11:50.045 --> 01:11:51.960 like IDH mean gliomas in kids,

NOTE Confidence: 0.838542938232422

01:11:51.960 --> 01:11:53.856 which is actually not that common,

NOTE Confidence: 0.838542938232422

01:11:53.860 --> 01:11:56.205 and we now have pretty robust cooperative

NOTE Confidence: 0.838542938232422

01:11:56.205 --> 01:11:58.278 groups that are ready to jump on,

NOTE Confidence: 0.838542938232422

01:11:58.280 --> 01:11:59.860 sort of precision medicine angle.

NOTE Confidence: 0.838542938232422

01:11:59.860 --> 01:12:01.953 Another interesting thing is a lot of

NOTE Confidence: 0.838542938232422

01:12:01.953 --> 01:12:03.969 these foundations are becoming more active.

NOTE Confidence: 0.838542938232422

01:12:03.970 --> 01:12:05.550 The National Brain Tumor Society,

NOTE Confidence: 0.838542938232422

01:12:05.550 --> 01:12:07.797 for instance, is started a venture fund.

NOTE Confidence: 0.838542938232422

01:12:07.800 --> 01:12:09.865 To try to get the more rare

NOTE Confidence: 0.838542938232422

01:12:09.865 --> 01:12:11.250 tumors funded kidney cancer,

NOTE Confidence: 0.838542938232422

01:12:11.250 --> 01:12:13.448 we look at FH Mutant HL RCC.

NOTE Confidence: 0.838542938232422

01:12:13.450 --> 01:12:15.648 This is like 300 cases a year,

NOTE Confidence: 0.838542938232422

01:12:15.650 --> 01:12:17.715 but there's actually now a whole group

NOTE Confidence: 0.838542938232422

01:12:17.715 --> 01:12:20.047 that's trying to fund these smaller trials,

NOTE Confidence: 0.838542938232422

01:12:20.050 --> 01:12:22.210 and then when you throw that together with

NOTE Confidence: 0.838542938232422

01:12:22.210 --> 01:12:24.439 the orphan status priority review vouchers.

NOTE Confidence: 0.838542938232422

01:12:24.440 --> 01:12:26.366 Depending on which which area are

NOTE Confidence: 0.838542938232422

01:12:26.366 --> 01:12:28.678 looking at that there there are pieces

NOTE Confidence: 0.838542938232422

01:12:28.678 --> 01:12:30.925 of the puzzle that are coming together

NOTE Confidence: 0.838542938232422

01:12:30.990 --> 01:12:32.915 that are making this a little bit

NOTE Confidence: 0.826995432376862

01:12:32.920 --> 01:12:33.586 more tractable.

NOTE Confidence: 0.826995432376862

01:12:33.586 --> 01:12:35.251 I think the existential risk

NOTE Confidence: 0.826995432376862

01:12:35.251 --> 01:12:36.884 of everything we just said

NOTE Confidence: 0.826995432376862

01:12:36.884 --> 01:12:38.324 is the drug pricing debate.

NOTE Confidence: 0.826995432376862

01:12:38.330 --> 01:12:42.145 So if if if you example say.

NOTE Confidence: 0.826995432376862

01:12:42.150 --> 01:12:44.678 If we can accept that there is such

NOTE Confidence: 0.826995432376862

01:12:44.678 --> 01:12:47.296 a thing as a $20,000 per month

NOTE Confidence: 0.826995432376862

01:12:47.296 --> 01:12:49.206 or $30,000 per month therapy,

NOTE Confidence: 0.826995432376862

01:12:49.210 --> 01:12:51.262 then we create legislation or mandates

NOTE Confidence: 0.826995432376862

01:12:51.262 --> 01:12:53.090 around price caps and limits.

NOTE Confidence: 0.826995432376862

01:12:53.090 --> 01:12:55.786 I I don't know how the financial model

NOTE Confidence: 0.826995432376862

01:12:55.786 --> 01:12:58.387 works even at the small company level,

NOTE Confidence: 0.826995432376862

01:12:58.390 --> 01:13:00.238 and I'm not seeing enough nuances

NOTE Confidence: 0.826995432376862

01:13:00.238 --> 01:13:02.365 in the public policy debate that's

NOTE Confidence: 0.826995432376862

01:13:02.365 --> 01:13:04.037 really tackling that question.

NOTE Confidence: 0.826995432376862

01:13:04.840 --> 01:13:05.160 Yep.

NOTE Confidence: 0.873570382595062

01:13:07.560 --> 01:13:09.492 Yeah, you still let you look

NOTE Confidence: 0.873570382595062

01:13:09.492 --> 01:13:11.530 at and I would just add.

NOTE Confidence: 0.873570382595062

01:13:11.530 --> 01:13:14.786 You know so so small tumors are great.

NOTE Confidence: 0.873570382595062

01:13:14.790 --> 01:13:17.238 If you really understand the biology,

NOTE Confidence: 0.873570382595062

01:13:17.240 --> 01:13:18.872 'cause the therapies can

NOTE Confidence: 0.873570382595062

01:13:18.872 --> 01:13:20.504 have a tremendous impact.

NOTE Confidence: 0.873570382595062

01:13:20.510 --> 01:13:23.527 I mean, Josh response rates with your

NOTE Confidence: 0.873570382595062

01:13:23.527 --> 01:13:27.036 product's were in the range of 50 sixty, 70%.

NOTE Confidence: 0.873570382595062

01:13:27.036 --> 01:13:29.478 Just remind us 80 percent, 80%.

NOTE Confidence: 0.873570382595062

01:13:29.478 --> 01:13:32.742 And that's not only unheard of in cancer.

NOTE Confidence: 0.873570382595062

01:13:32.750 --> 01:13:33.971 That's unheard of.

NOTE Confidence: 0.873570382595062

01:13:33.971 --> 01:13:36.413 Almost any indication across the industry.

NOTE Confidence: 0.873570382595062

01:13:36.420 --> 01:13:38.862 So when when you have something

NOTE Confidence: 0.873570382595062

01:13:38.862 --> 01:13:40.083 so profoundly impactful,

NOTE Confidence: 0.873570382595062

01:13:40.090 --> 01:13:42.580 you know, just because of the.

NOTE Confidence: 0.873570382595062

01:13:42.580 --> 01:13:44.113 Transformative benefit that

NOTE Confidence: 0.873570382595062

01:13:44.113 --> 01:13:47.179 has to patient that that really

NOTE Confidence: 0.873570382595062

01:13:47.179 --> 01:13:49.991 subscribe value so you know a small

NOTE Confidence: 0.873570382595062

01:13:49.991 --> 01:13:51.975 population with a really potent

NOTE Confidence: 0.873570382595062

01:13:51.975 --> 01:13:54.507 therapy rightfully can be can be

NOTE Confidence: 0.873570382595062

01:13:54.507 --> 01:13:56.668 valued highly and therefore draw,

NOTE Confidence: 0.873570382595062

01:13:56.668 --> 01:13:57.112 certainly,

NOTE Confidence: 0.873570382595062

01:13:57.112 --> 01:13:59.776 do investment is just want enough

NOTE Confidence: 0.873570382595062

01:13:59.776 --> 01:14:01.937 from investors from the small

NOTE Confidence: 0.852439188957214

01:14:01.940 --> 01:14:02.534 biotech community.

NOTE Confidence: 0.852439188957214

01:14:02.534 --> 01:14:05.279 So I will add that there's a way to

NOTE Confidence: 0.852439188957214

01:14:05.279 --> 01:14:07.435 have a strategy where your first solid

NOTE Confidence: 0.852439188957214

01:14:07.435 --> 01:14:09.459 tumor phase one might have all comers

NOTE Confidence: 0.852439188957214

01:14:09.459 --> 01:14:11.655 and you have a dream that your your

NOTE Confidence: 0.852439188957214

01:14:11.655 --> 01:14:13.650 follow on trial is for that population.

NOTE Confidence: 0.852439188957214

01:14:13.650 --> 01:14:15.075 Obviously that's always difficult to

NOTE Confidence: 0.852439188957214

01:14:15.075 --> 01:14:17.640 walk that line, but if there is a way,

NOTE Confidence: 0.852439188957214

01:14:17.640 --> 01:14:19.350 certainly many companies have done it.

NOTE Confidence: 0.852439188957214

01:14:19.350 --> 01:14:21.345 Then you can kind of hedge your

NOTE Confidence: 0.852439188957214

01:14:21.345 --> 01:14:24.780 bets a little bit, but. But

NOTE Confidence: 0.847855269908905

01:14:24.780 --> 01:14:27.538 it still takes an enormous amount of

NOTE Confidence: 0.847855269908905

01:14:27.538 --> 01:14:29.986 capital to develop a rare tumor drug.

NOTE Confidence: 0.847855269908905

01:14:29.986 --> 01:14:32.730 Yeah, our second drug was a.

NOTE Confidence: 0.847855269908905

01:14:32.730 --> 01:14:35.930 You know, targeting 2% of the lung cancer

NOTE Confidence: 0.847855269908905

01:14:35.930 --> 01:14:38.229 community with red alterations and.

NOTE Confidence: 0.847855269908905

01:14:38.230 --> 01:14:40.062 Anne medullary thyroid cancer.

NOTE Confidence: 0.847855269908905

01:14:40.062 --> 01:14:42.352 We were running GNP manufacturing

NOTE Confidence: 0.847855269908905

01:14:42.352 --> 01:14:44.787 campaigns that cost 3040 million dollars.

NOTE Confidence: 0.847855269908905

01:14:44.790 --> 01:14:47.758 Just the manufacturing and then you throw

NOTE Confidence: 0.847855269908905

01:14:47.758 --> 01:14:51.755 on top of that like it takes hundreds of

NOTE Confidence: 0.847855269908905

01:14:51.755 --> 01:14:55.267 millions of dollars to get a drug approved.

NOTE Confidence: 0.847855269908905

01:14:55.270 --> 01:14:58.329 No matter what the market potential is,

NOTE Confidence: 0.847855269908905

01:14:58.330 --> 01:15:00.518 it's just there's these fixed

NOTE Confidence: 0.847855269908905

01:15:00.520 --> 01:15:02.264 costs of compliance, manufacturing,

NOTE Confidence: 0.847855269908905

01:15:02.264 --> 01:15:04.008 pre clinical data management,

NOTE Confidence: 0.847855269908905

01:15:04.010 --> 01:15:06.018 post safety, post marketing,

NOTE Confidence: 0.847855269908905

01:15:06.018 --> 01:15:08.528 safety monitoring like there's just.

NOTE Confidence: 0.847855269908905

01:15:08.530 --> 01:15:10.385 The small product in the big product

NOTE Confidence: 0.847855269908905

01:15:10.385 --> 01:15:12.278 are exposed to the same fixed cost.

NOTE Confidence: 0.847855269908905

01:15:12.280 --> 01:15:13.363 You know issues.

NOTE Confidence: 0.847855269908905

01:15:13.363 --> 01:15:16.309 And so don't assume you can skunk work

NOTE Confidence: 0.847855269908905

01:15:16.309 --> 01:15:19.069 it forever if the drug starts to work,

NOTE Confidence: 0.847855269908905

01:15:19.070 --> 01:15:21.422 you're going to real capital in a

NOTE Confidence: 0.847855269908905

01:15:21.422 --> 01:15:23.119 real management team behind it.

NOTE Confidence: 0.852326154708862

01:15:24.680 --> 01:15:29.214 Yep. Um? So again, open up to

NOTE Confidence: 0.852326154708862

01:15:29.214 --> 01:15:31.760 the audience for any questions,

NOTE Confidence: 0.852326154708862

01:15:31.760 --> 01:15:33.812 raise your hand and we'll get

NOTE Confidence: 0.852326154708862

01:15:33.812 --> 01:15:35.939 you into the meeting and Kathy,

NOTE Confidence: 0.852326154708862

01:15:35.940 --> 01:15:37.842 you make me aware of any

NOTE Confidence: 0.852326154708862

01:15:37.842 --> 01:15:39.790 of those that I'm missing.

NOTE Confidence: 0.852326154708862

01:15:39.790 --> 01:15:43.318 Let me it just make an observation and then

NOTE Confidence: 0.852326154708862

01:15:43.318 --> 01:15:46.874 you know pass on a question to the panel.

NOTE Confidence: 0.852326154708862

01:15:46.880 --> 01:15:50.093 So one thing that I'm struck by

NOTE Confidence: 0.852326154708862

01:15:50.093 --> 01:15:52.379 about Yale compared to other.

NOTE Confidence: 0.852326154708862

01:15:52.380 --> 01:15:55.760 Institutions with worldwide were now

NOTE Confidence: 0.852326154708862

01:15:55.760 --> 01:16:00.494 is that while you know there's an

NOTE Confidence: 0.852326154708862

01:16:00.494 --> 01:16:04.556 incredible depth of talent and science.

NOTE Confidence: 0.852326154708862

01:16:04.560 --> 01:16:07.440 You know around every corner.

NOTE Confidence: 0.852326154708862

01:16:07.440 --> 01:16:10.280 The institution has a smallness to it in

NOTE Confidence: 0.852326154708862

01:16:10.280 --> 01:16:13.307 terms of being able to interact with it,

NOTE Confidence: 0.852326154708862

01:16:13.310 --> 01:16:15.970 which to me is like really unique

NOTE Confidence: 0.852326154708862

01:16:15.970 --> 01:16:18.080 compared to other places I go,

NOTE Confidence: 0.852326154708862

01:16:18.080 --> 01:16:21.016 and I think it's it's A wonderful attribute.

NOTE Confidence: 0.852326154708862

01:16:21.020 --> 01:16:23.995 I see that also in the collaborations

NOTE Confidence: 0.852326154708862

01:16:23.995 --> 01:16:24.845 within Yale.

NOTE Confidence: 0.852326154708862

01:16:24.850 --> 01:16:27.217 So again, I know many of you and I

NOTE Confidence: 0.852326154708862

01:16:27.217 --> 01:16:29.839 see a lot of collaborations going on.

NOTE Confidence: 0.852326154708862

01:16:29.840 --> 01:16:31.088 You know, with within,

NOTE Confidence: 0.852326154708862

01:16:31.088 --> 01:16:32.648 within the walls of Yale,

NOTE Confidence: 0.852326154708862

01:16:32.650 --> 01:16:35.146 and within that the Cancer Center run sheet.

NOTE Confidence: 0.852326154708862

01:16:35.150 --> 01:16:38.190 I think you called some of this out.

NOTE Confidence: 0.852326154708862

01:16:38.190 --> 01:16:40.806 Army Reserve without the lab to the clinic.

NOTE Confidence: 0.852326154708862

01:16:40.810 --> 01:16:43.888 Maybe if you could speak a little bit more

NOTE Confidence: 0.852326154708862

01:16:43.888 --> 01:16:47.003 about that as sort of my angle is you know,

NOTE Confidence: 0.852326154708862

01:16:47.003 --> 01:16:48.568 you know translation is so

NOTE Confidence: 0.852326154708862

01:16:48.568 --> 01:16:50.222 important and markers of translation

NOTE Confidence: 0.852326154708862

01:16:50.222 --> 01:16:51.917 or so important in Ranji.

NOTE Confidence: 0.852326154708862

01:16:51.920 --> 01:16:53.666 You talked about this iteration of

NOTE Confidence: 0.852326154708862

01:16:53.666 --> 01:16:55.867 Lab to the clinic and the importance

NOTE Confidence: 0.852326154708862

01:16:55.867 --> 01:16:57.817 of tissue human tissue tested with

NOTE Confidence: 0.852326154708862

01:16:57.817 --> 01:16:59.768 your drug and interrogating that.

NOTE Confidence: 0.852326154708862

01:16:59.770 --> 01:17:01.078 Understand what's going on.

NOTE Confidence: 0.852326154708862

01:17:01.078 --> 01:17:02.059 So maybe lunch.

NOTE Confidence: 0.852326154708862

01:17:02.060 --> 01:17:03.700 It'll throw it to you,

NOTE Confidence: 0.852326154708862

01:17:03.700 --> 01:17:05.482 but I really would ask others

NOTE Confidence: 0.852326154708862

01:17:05.482 --> 01:17:07.828 really just to talk a little bit

NOTE Confidence: 0.852326154708862

01:17:07.828 --> 01:17:09.648 about some of their collaborations.

NOTE Confidence: 0.852326154708862

01:17:09.650 --> 01:17:10.550 Within the walls,

NOTE Confidence: 0.852326154708862

01:17:10.550 --> 01:17:12.350 email that they think are really

NOTE Confidence: 0.852326154708862

01:17:12.350 --> 01:17:14.127 unique and really haven't enabled.

NOTE Confidence: 0.852326154708862

01:17:14.130 --> 01:17:16.826 You know you to do what you want

NOTE Confidence: 0.842048724492391

01:17:16.830 --> 01:17:19.381 to do. Question and you know, as I mentioned,

NOTE Confidence: 0.842048724492391

01:17:19.381 --> 01:17:21.732 a bit yellow while I was a resident at

NOTE Confidence: 0.842048724492391

01:17:21.732 --> 01:17:23.628 Sloan Kettering for about five years

NOTE Confidence: 0.842048724492391

01:17:23.628 --> 01:17:25.562 and was able to compare experiences

NOTE Confidence: 0.842048724492391

01:17:25.562 --> 01:17:27.715 that at much larger sort of complexes.

NOTE Confidence: 0.842048724492391

01:17:27.715 --> 01:17:29.995 And one of the reasons I came back

NOTE Confidence: 0.842048724492391

01:17:29.995 --> 01:17:32.370 to you was that that spirit at the

NOTE Confidence: 0.842048724492391

01:17:32.370 --> 01:17:34.140 Cancer Center and on the campus.

NOTE Confidence: 0.842048724492391

01:17:34.140 --> 01:17:36.184 It's a very small close knit community,

NOTE Confidence: 0.842048724492391

01:17:36.190 --> 01:17:38.534 but with very, very big ideas and deep

NOTE Confidence: 0.842048724492391

01:17:38.534 --> 01:17:39.847 collaborations and certainly doctor

NOTE Confidence: 0.842048724492391

01:17:39.847 --> 01:17:41.851 fuses really engender that further at

NOTE Confidence: 0.842048724492391

01:17:41.851 --> 01:17:43.765 the center and it's just a wonderful

NOTE Confidence: 0.842048724492391

01:17:43.765 --> 01:17:45.805 place to be and just an example is,

NOTE Confidence: 0.842048724492391

01:17:45.805 --> 01:17:47.515 you know when we found that

NOTE Confidence: 0.842048724492391

01:17:47.515 --> 01:17:49.108 you know I DH mutations.

NOTE Confidence: 0.842048724492391

01:17:49.110 --> 01:17:50.370 Cause PARP inhibitor sensitivity and

NOTE Confidence: 0.842048724492391

01:17:50.370 --> 01:17:52.408 it was sort of the opposite of the

NOTE Confidence: 0.842048724492391

01:17:52.408 --> 01:17:54.109 current approach in the clinic to use

NOTE Confidence: 0.842048724492391

01:17:54.157 --> 01:17:56.124 I DH inhibitors that suppress the mutation.

NOTE Confidence: 0.842048724492391

01:17:56.130 --> 01:17:58.210 We actually say we should exploit the defect.

NOTE Confidence: 0.842048724492391

01:17:58.210 --> 01:18:00.570 We still need to figure out if it's got legs

NOTE Confidence: 0.842048724492391

01:18:00.631 --> 01:18:02.887 in the clinic and that's what we're doing,

NOTE Confidence: 0.842048724492391

01:18:02.890 --> 01:18:04.970 but it was the folks like Pat Larusso,

NOTE Confidence: 0.842048724492391

01:18:04.970 --> 01:18:07.310 Inpo leader, who run Phase one here at Yale,

NOTE Confidence: 0.842048724492391

01:18:07.310 --> 01:18:08.090 and, you know,

NOTE Confidence: 0.842048724492391

01:18:08.090 --> 01:18:09.650 we literally shoot down the Hall.

NOTE Confidence: 0.842048724492391

01:18:09.650 --> 01:18:10.170 You know,

NOTE Confidence: 0.842048724492391

01:18:10.170 --> 01:18:11.990 right when we're getting the paper ready?

NOTE Confidence: 0.842048724492391

01:18:11.990 --> 01:18:13.290 Brought the galley proofs over

NOTE Confidence: 0.842048724492391

01:18:13.290 --> 01:18:15.110 there and I said, well, you know,

NOTE Confidence: 0.842048724492391

01:18:15.110 --> 01:18:16.670 what do you think can we?

NOTE Confidence: 0.842048724492391

01:18:16.670 --> 01:18:18.230 Can we take a lap ribbon?

NOTE Confidence: 0.842048724492391

01:18:18.230 --> 01:18:19.278 Just run a trial?

NOTE Confidence: 0.842048724492391

01:18:19.278 --> 01:18:21.559 And just get this going her in Polydor.

NOTE Confidence: 0.842048724492391

01:18:21.560 --> 01:18:23.738 We sat down and had a Cup of coffee

NOTE Confidence: 0.842048724492391

01:18:23.738 --> 01:18:26.137 and we mapped it out and part of the

NOTE Confidence: 0.842048724492391

01:18:26.137 --> 01:18:28.339 reason it was so successful was that

NOTE Confidence: 0.842048724492391

01:18:28.339 --> 01:18:30.516 it isn't an assembly line type of

NOTE Confidence: 0.842048724492391

01:18:30.516 --> 01:18:32.462 approach and it gets back to Josh's

NOTE Confidence: 0.842048724492391

01:18:32.462 --> 01:18:34.275 comments of at the upper level of

NOTE Confidence: 0.842048724492391

01:18:34.275 --> 01:18:36.119 those people know the deeper science.

NOTE Confidence: 0.842048724492391

01:18:36.120 --> 01:18:36.960 Same thing here.

NOTE Confidence: 0.842048724492391

01:18:36.960 --> 01:18:38.640 If the clinical trials have a

NOTE Confidence: 0.842048724492391

01:18:38.640 --> 01:18:40.040 deep understanding and respect and

NOTE Confidence: 0.842048724492391

01:18:40.040 --> 01:18:41.160 relationship with the science,

NOTE Confidence: 0.842048724492391

01:18:41.160 --> 01:18:42.515 you can have conversations with

NOTE Confidence: 0.842048724492391

01:18:42.515 --> 01:18:43.870 pure basic scientist anyone and

NOTE Confidence: 0.842048724492391

01:18:43.917 --> 01:18:45.077 really integrate that data.

NOTE Confidence: 0.842048724492391

01:18:45.080 --> 01:18:46.984 And so when patent Jeff and I and

NOTE Confidence: 0.842048724492391

01:18:46.984 --> 01:18:48.828 Peter Glaser folks are mapping those

NOTE Confidence: 0.842048724492391

01:18:48.828 --> 01:18:50.468 trials that we're thinking about.

NOTE Confidence: 0.842048724492391

01:18:50.470 --> 01:18:51.970 The on treatment biopsies the PK,

NOTE Confidence: 0.842048724492391

01:18:51.970 --> 01:18:53.776 PD biomarkers and and we're getting

NOTE Confidence: 0.842048724492391

01:18:53.776 --> 01:18:55.708 deep in the science and you know

NOTE Confidence: 0.842048724492391

01:18:55.708 --> 01:18:57.548 Pat as a deep respect for it and

NOTE Confidence: 0.842048724492391

01:18:57.548 --> 01:18:59.465 we kind of go back and forth and no

NOTE Confidence: 0.842048724492391

01:18:59.470 --> 01:19:00.740 ones making assumptions about you

NOTE Confidence: 0.842048724492391

01:19:00.740 --> 01:19:02.469 know the other part of the coin.

NOTE Confidence: 0.842048724492391

01:19:02.470 --> 01:19:03.970 The trial design versus the science,

NOTE Confidence: 0.842048724492391

01:19:03.970 --> 01:19:05.470 and so I'll leave it that.

NOTE Confidence: 0.842048724492391

01:19:05.470 --> 01:19:07.038 But that's just one example of why

NOTE Confidence: 0.842048724492391

01:19:07.038 --> 01:19:08.719 I think things have flourished here.

NOTE Confidence: 0.815398037433624

01:19:10.450 --> 01:19:13.185 I also just add my experience

NOTE Confidence: 0.815398037433624

01:19:13.185 --> 01:19:15.460 with the Yale Cancer Center.

NOTE Confidence: 0.815398037433624

01:19:15.460 --> 01:19:18.638 I'm actually in on the main campus,

NOTE Confidence: 0.815398037433624

01:19:18.640 --> 01:19:20.920 so I teach undergraduates biology.

NOTE Confidence: 0.815398037433624

01:19:20.920 --> 01:19:24.357 So for me the Yale Cancer Center

NOTE Confidence: 0.815398037433624

01:19:24.357 --> 01:19:27.203 has been instrumental in making sure

NOTE Confidence: 0.815398037433624

01:19:27.203 --> 01:19:30.470 that I know what's going on from a.

NOTE Confidence: 0.815398037433624

01:19:30.470 --> 01:19:33.200 From a clinical point of view,

NOTE Confidence: 0.815398037433624

01:19:33.200 --> 01:19:35.740 that the retreats the seminar series.

NOTE Confidence: 0.815398037433624

01:19:35.740 --> 01:19:38.470 The pilot grants that are available to

NOTE Confidence: 0.815398037433624

01:19:38.544 --> 01:19:41.439 faculty to facilitate collaborations among.

NOTE Confidence: 0.815398037433624

01:19:41.440 --> 01:19:43.956 People from different disciplines

NOTE Confidence: 0.815398037433624

01:19:43.956 --> 01:19:47.730 really make for a very tightly

NOTE Confidence: 0.815398037433624

01:19:47.828 --> 01:19:50.579 dense collaborative network.

NOTE Confidence: 0.815398037433624

01:19:50.580 --> 01:19:52.872 But I just wanted, you know,

NOTE Confidence: 0.815398037433624

01:19:52.872 --> 01:19:56.366 put put this 2 two finer points on this

NOTE Confidence: 0.815398037433624

01:19:56.366 --> 01:19:59.152 with respect to my to recent companies.

NOTE Confidence: 0.815398037433624

01:19:59.160 --> 01:20:02.310 When I had this a bit of a crazy

NOTE Confidence: 0.815398037433624

01:20:02.310 --> 01:20:05.123 idea of how to degrade proteins

NOTE Confidence: 0.815398037433624

01:20:05.123 --> 01:20:08.249 an I was thinking about how to.

NOTE Confidence: 0.815398037433624

01:20:08.250 --> 01:20:09.980 Start this company are Venice.

NOTE Confidence: 0.815398037433624

01:20:09.980 --> 01:20:12.255 I knew that I needed to have

NOTE Confidence: 0.815398037433624

01:20:12.255 --> 01:20:13.790 a killer app right?

NOTE Confidence: 0.815398037433624

01:20:13.790 --> 01:20:16.550 And so the beauty of the platform technology.

NOTE Confidence: 0.815398037433624

01:20:16.550 --> 01:20:18.625 It could be applied to

NOTE Confidence: 0.815398037433624

01:20:18.625 --> 01:20:19.870 many different targets.

NOTE Confidence: 0.815398037433624

01:20:19.870 --> 01:20:25.360 And so I sat down with Dan Pitch Black.

NOTE Confidence: 0.815398037433624

01:20:25.360 --> 01:20:27.152 A prostate cancer specialist

NOTE Confidence: 0.815398037433624

01:20:27.152 --> 01:20:29.840 here and with my investor an.

NOTE Confidence: 0.815398037433624

01:20:29.840 --> 01:20:33.790 It was really nice to be able to sit and

NOTE Confidence: 0.815398037433624

01:20:33.892 --> 01:20:37.907 have the investor listen to the end user.

NOTE Confidence: 0.815398037433624

01:20:37.907 --> 01:20:41.490 If you will hear what could be a

NOTE Confidence: 0.815398037433624

01:20:41.490 --> 01:20:43.784 unique application of this technology

NOTE Confidence: 0.815398037433624

01:20:43.784 --> 01:20:47.045 and and I think that that really

NOTE Confidence: 0.815398037433624

01:20:47.045 --> 01:20:50.333 helped me seal the deal in terms of

NOTE Confidence: 0.815398037433624

01:20:50.333 --> 01:20:53.139 getting our business off the ground.

NOTE Confidence: 0.815398037433624

01:20:53.140 --> 01:20:55.245 More recently another platform technology

NOTE Confidence: 0.815398037433624

01:20:55.245 --> 01:20:58.120 company we were thinking about indications.

NOTE Confidence: 0.815398037433624

01:20:58.120 --> 01:21:00.776 I was able to go to the leadership

NOTE Confidence: 0.815398037433624

01:21:00.776 --> 01:21:03.310 of the Cancer Center and say,

NOTE Confidence: 0.815398037433624

01:21:03.310 --> 01:21:03.685 listen,

NOTE Confidence: 0.815398037433624

01:21:03.685 --> 01:21:06.310 would it be possible for me to

NOTE Confidence: 0.815398037433624

01:21:06.310 --> 01:21:08.761 get together three or four basic

NOTE Confidence: 0.815398037433624

01:21:08.761 --> 01:21:10.786 researchers and cancer in this

NOTE Confidence: 0.815398037433624

01:21:10.786 --> 01:21:13.325 area and just to have a sit down?

NOTE Confidence: 0.815398037433624

01:21:13.330 --> 01:21:16.386 Or we could throw out ideas and really

NOTE Confidence: 0.815398037433624

01:21:16.386 --> 01:21:18.323 whiteboard things and really allowed

NOTE Confidence: 0.815398037433624

01:21:18.323 --> 01:21:20.899 for this nascent company to be able

NOTE Confidence: 0.815398037433624

01:21:20.972 --> 01:21:22.980 to have again real world interactions.

NOTE Confidence: 0.815398037433624

01:21:22.980 --> 01:21:26.331 And so it makes for a I think a

NOTE Confidence: 0.815398037433624

01:21:26.331 --> 01:21:28.540 very unique place here at you.

NOTE Confidence: 0.789999485015869

01:21:30.990 --> 01:21:32.940 Fair City, any any comments?

NOTE Confidence: 0.789999485015869

01:21:32.940 --> 01:21:35.892 You know in regard to, you know,

NOTE Confidence: 0.789999485015869

01:21:35.892 --> 01:21:38.760 some of your collaborative experiences. Sure,

NOTE Confidence: 0.836272060871124

01:21:38.760 --> 01:21:41.060 I think your Cancer Center.

NOTE Confidence: 0.836272060871124

01:21:41.060 --> 01:21:44.624 It's a wonderful place in I have so many

NOTE Confidence: 0.836272060871124

01:21:44.624 --> 01:21:47.639 different experts experts in collectively.

NOTE Confidence: 0.836272060871124

01:21:47.640 --> 01:21:50.310 We basically cover the entire

NOTE Confidence: 0.836272060871124

01:21:50.310 --> 01:21:52.980 cancer expertise in this place

NOTE Confidence: 0.836272060871124

01:21:53.077 --> 01:21:55.837 and you can basically find the.

NOTE Confidence: 0.836272060871124

01:21:55.840 --> 01:21:59.450 Conditions and basic scientists in.

NOTE Confidence: 0.836272060871124

01:21:59.450 --> 01:22:00.773 Physician scientists across

NOTE Confidence: 0.836272060871124

01:22:00.773 --> 01:22:03.419 the board and no matter what

NOTE Confidence: 0.836272060871124

01:22:03.419 --> 01:22:05.270 cancer type you trying to?

NOTE Confidence: 0.836272060871124

01:22:05.270 --> 01:22:07.726 Only in order to discuss with.

NOTE Confidence: 0.836272060871124

01:22:07.726 --> 01:22:08.846 Really, truly collaborative

NOTE Confidence: 0.836272060871124

01:22:08.846 --> 01:22:09.920 environment over here.

NOTE Confidence: 0.854514598846436

01:22:12.530 --> 01:22:15.626 In, say, anything that so I would second

NOTE Confidence: 0.854514598846436

01:22:15.630 --> 01:22:17.958 all that has been said before,

NOTE Confidence: 0.854514598846436

01:22:17.960 --> 01:22:20.608 and I think one of the things that

NOTE Confidence: 0.854514598846436

01:22:20.608 --> 01:22:22.585 we've been primarily interested in

NOTE Confidence: 0.854514598846436

01:22:22.585 --> 01:22:25.953 is we know that our strategy can be

NOTE Confidence: 0.854514598846436

01:22:25.953 --> 01:22:28.788 used to treat drug resistance and the

NOTE Confidence: 0.854514598846436

01:22:28.788 --> 01:22:30.734 opportunity to get patient samples

NOTE Confidence: 0.854514598846436

01:22:30.734 --> 01:22:33.380 so that we can make patient derived

NOTE Confidence: 0.854514598846436

01:22:33.457 --> 01:22:35.522 xenograft models has been really

NOTE Confidence: 0.854514598846436

01:22:35.522 --> 01:22:38.374 instrumental for us to kind of see

NOTE Confidence: 0.854514598846436

01:22:38.374 --> 01:22:40.522 whether or not we have functional

NOTE Confidence: 0.854514598846436

01:22:40.522 --> 01:22:42.410 activity in drug resistant tumors.

NOTE Confidence: 0.862850069999695

01:22:43.760 --> 01:22:45.804 That's great, thanks birthday.

NOTE Confidence: 0.862850069999695

01:22:45.804 --> 01:22:49.524 So we do have a question from

NOTE Confidence: 0.862850069999695

01:22:49.524 --> 01:22:53.431 the audience. Alexander Let's

NOTE Confidence: 0.862850069999695

01:22:53.431 --> 01:22:55.258 see if we can get you activated.

NOTE Confidence: 0.862844526767731

01:22:56.300 --> 01:22:57.389 Yeah, hi. Can

NOTE Confidence: 0.862844526767731

01:22:57.390 --> 01:22:58.479 anyone hear me?

NOTE Confidence: 0.862844526767731

01:22:58.480 --> 01:22:59.928 Yeah we can hear.

NOTE Confidence: 0.853764235973358

01:23:01.100 --> 01:23:02.240 OK, thank you.

NOTE Confidence: 0.853764235973358

01:23:02.240 --> 01:23:04.520 Thank you everybody for coming together.

NOTE Confidence: 0.853764235973358

01:23:04.520 --> 01:23:06.420 It's been really, really exciting.

NOTE Confidence: 0.853764235973358

01:23:06.420 --> 01:23:09.840 So my question is open anyone on the panel?

NOTE Confidence: 0.853764235973358

01:23:09.840 --> 01:23:12.120 I'm just curious about the broad

NOTE Confidence: 0.853764235973358

01:23:12.120 --> 01:23:13.260 cultural differences between

NOTE Confidence: 0.853764235973358

01:23:13.260 --> 01:23:14.780 industry and academia specifically.

NOTE Confidence: 0.853764235973358

01:23:14.780 --> 01:23:17.820 Do you ever have or see very successful

NOTE Confidence: 0.853764235973358

01:23:17.820 --> 01:23:19.720 academic scientists and clinicians who,

NOTE Confidence: 0.853764235973358

01:23:19.720 --> 01:23:21.240 for personality reasons experience

NOTE Confidence: 0.853764235973358

01:23:21.240 --> 01:23:23.520 a lot of friction in their

NOTE Confidence: 0.853764235973358

01:23:23.520 --> 01:23:24.660 involvement with industry?

NOTE Confidence: 0.853764235973358

01:23:24.660 --> 01:23:25.420 And Conversely,

NOTE Confidence: 0.853764235973358

01:23:25.420 --> 01:23:27.700 what kinds of personality traits do

NOTE Confidence: 0.853764235973358

01:23:27.700 --> 01:23:29.980 you think predict maybe a smoother

NOTE Confidence: 0.853764235973358

01:23:29.980 --> 01:23:33.240 transition from academia to industry?

NOTE Confidence: 0.805389642715454

01:23:33.240 --> 01:23:41.298 Well, open that up. I love the question.

NOTE Confidence: 0.792907774448395

01:23:41.300 --> 01:23:43.116 Thank you for it.

NOTE Confidence: 0.792907774448395

01:23:43.116 --> 01:23:46.490 I think about it all the time.

NOTE Confidence: 0.792907774448395

01:23:46.490 --> 01:23:51.278 I think a big one of the biggest differences.

NOTE Confidence: 0.792907774448395

01:23:51.280 --> 01:23:57.616 Is the mindset around risk taking?

NOTE Confidence: 0.792907774448395

01:23:57.620 --> 01:24:00.896 In academia, it's OK to like place a lot

NOTE Confidence: 0.792907774448395

01:24:00.896 --> 01:24:04.320 of bets and be wrong most of the time.

NOTE Confidence: 0.792907774448395

01:24:04.320 --> 01:24:06.917 Learn some interesting things along the way.

NOTE Confidence: 0.792907774448395

01:24:06.920 --> 01:24:08.033 Get some publications,

NOTE Confidence: 0.792907774448395

01:24:08.033 --> 01:24:09.517 even if you're wrong.

NOTE Confidence: 0.792907774448395

01:24:09.520 --> 01:24:11.752 I'm referring to even like clinical

NOTE Confidence: 0.792907774448395

01:24:11.752 --> 01:24:13.390 publications, posters that said.

NOTE Confidence: 0.792907774448395

01:24:13.390 --> 01:24:15.910 An industry you're accumulating a track

NOTE Confidence: 0.792907774448395

01:24:15.910 --> 01:24:18.147 record always the things that you,

NOTE Confidence: 0.792907774448395

01:24:18.150 --> 01:24:20.165 the projects that you launch

NOTE Confidence: 0.792907774448395

01:24:20.165 --> 01:24:22.690 and work on have to work.

NOTE Confidence: 0.792907774448395

01:24:22.690 --> 01:24:24.994 You need to see patient results and you

NOTE Confidence: 0.792907774448395

01:24:24.994 --> 01:24:27.069 can't just take Flyers all the time.

NOTE Confidence: 0.792907774448395

01:24:27.070 --> 01:24:28.822 It's kind of like being a

NOTE Confidence: 0.792907774448395

01:24:28.822 --> 01:24:29.990 movie producer in Hollywood.

NOTE Confidence: 0.792907774448395

01:24:29.990 --> 01:24:32.174 Like if you the last movie you make

NOTE Confidence: 0.792907774448395

01:24:32.174 --> 01:24:34.368 if nobody comes with the box office,

NOTE Confidence: 0.792907774448395

01:24:34.370 --> 01:24:36.407 you don't get to make another movie.

NOTE Confidence: 0.792907774448395

01:24:36.410 --> 01:24:38.454 Not saying it says I don't think

NOTE Confidence: 0.792907774448395

01:24:38.454 --> 01:24:40.208 it says reductive is that quite?

NOTE Confidence: 0.792907774448395

01:24:40.210 --> 01:24:42.009 I mean this we have a high

NOTE Confidence: 0.792907774448395

01:24:42.009 --> 01:24:43.710 failure rate in this business,

NOTE Confidence: 0.792907774448395

01:24:43.710 --> 01:24:45.990 but if you're just somebody who places bets

NOTE Confidence: 0.792907774448395

01:24:45.990 --> 01:24:48.100 because it's someone elses money and like.

NOTE Confidence: 0.792907774448395

01:24:48.100 --> 01:24:50.515 There's a very common academic behavior of,

NOTE Confidence: 0.792907774448395

01:24:50.520 --> 01:24:53.070 like, you know, I'm just.

NOTE Confidence: 0.792907774448395

01:24:53.070 --> 01:24:54.354 It's not my money.

NOTE Confidence: 0.792907774448395

01:24:54.354 --> 01:24:55.638 I'll learn some science.

NOTE Confidence: 0.792907774448395

01:24:55.640 --> 01:24:56.600 It's an option.

NOTE Confidence: 0.792907774448395

01:24:56.600 --> 01:24:57.560 Benefit goes well.

NOTE Confidence: 0.792907774448395

01:24:57.560 --> 01:24:58.523 In the upside,

NOTE Confidence: 0.792907774448395

01:24:58.523 --> 01:25:00.128 if it's on the downside,

NOTE Confidence: 0.792907774448395

01:25:00.130 --> 01:25:00.714 who cares?

NOTE Confidence: 0.792907774448395

01:25:00.714 --> 01:25:02.758 I'll move on to the next thing

NOTE Confidence: 0.792907774448395

01:25:02.758 --> 01:25:05.026 like that's a very I'll just say

NOTE Confidence: 0.792907774448395

01:25:05.026 --> 01:25:06.870 that's a more academic mindset,

NOTE Confidence: 0.792907774448395

01:25:06.870 --> 01:25:09.438 and the more industry mindset is like no,

NOTE Confidence: 0.792907774448395

01:25:09.440 --> 01:25:11.813 this I'm bringing all my best relationships

NOTE Confidence: 0.792907774448395

01:25:11.813 --> 01:25:14.256 and credibility to bear on this one project.

NOTE Confidence: 0.792907774448395

01:25:14.260 --> 01:25:15.220 Better, better work,

NOTE Confidence: 0.792907774448395

01:25:15.220 --> 01:25:16.500 better work and patience.

NOTE Confidence: 0.792907774448395

01:25:16.500 --> 01:25:17.174 Better ultimately,

NOTE Confidence: 0.792907774448395

01:25:17.174 --> 01:25:18.522 hopefully become an approved

NOTE Confidence: 0.792907774448395

01:25:18.522 --> 01:25:20.500 product that turns into a marketed

NOTE Confidence: 0.792907774448395

01:25:20.500 --> 01:25:21.955 medicine for patients like that,

NOTE Confidence: 0.792907774448395

01:25:21.960 --> 01:25:23.580 shift in mind is like.

NOTE Confidence: 0.792907774448395

01:25:23.580 --> 01:25:26.199 Very stark and I see a lot of folks

NOTE Confidence: 0.792907774448395

01:25:26.199 --> 01:25:28.756 who come in industry sort of mid

NOTE Confidence: 0.792907774448395

01:25:28.756 --> 01:25:30.970 and late career from academia,

NOTE Confidence: 0.792907774448395

01:25:30.970 --> 01:25:32.992 and they think that they'll come

NOTE Confidence: 0.792907774448395

01:25:32.992 --> 01:25:35.853 in be sort of a non high voice

NOTE Confidence: 0.792907774448395

01:25:35.853 --> 01:25:38.007 of logic and science and reason.

NOTE Confidence: 0.792907774448395

01:25:38.010 --> 01:25:40.229 The resident expert and be sort of

NOTE Confidence: 0.792907774448395

01:25:40.229 --> 01:25:42.767 off the hook on the harder parts of

NOTE Confidence: 0.792907774448395

01:25:42.767 --> 01:25:45.675 being right and on the harder parts of

NOTE Confidence: 0.792907774448395

01:25:45.675 --> 01:25:47.870 actually executing against the plan.

NOTE Confidence: 0.792907774448395

01:25:47.870 --> 01:25:50.678 And those folks don't do as well either,

NOTE Confidence: 0.792907774448395

01:25:50.680 --> 01:25:52.815 so I think both on like being

NOTE Confidence: 0.792907774448395

01:25:52.815 --> 01:25:54.600 right about your convictions.

NOTE Confidence: 0.792907774448395

01:25:54.600 --> 01:25:56.868 As well as being a contributor to

NOTE Confidence: 0.792907774448395

01:25:56.868 --> 01:25:58.430 the execution against the plan,

NOTE Confidence: 0.792907774448395

01:25:58.430 --> 01:26:00.025 those are the two behaviors

NOTE Confidence: 0.792907774448395

01:26:00.025 --> 01:26:01.620 that define success in industry,

NOTE Confidence: 0.792907774448395

01:26:01.620 --> 01:26:03.215 where in academia there needs

NOTE Confidence: 0.792907774448395

01:26:03.215 --> 01:26:04.810 to be room for failure.

NOTE Confidence: 0.792907774448395

01:26:04.810 --> 01:26:07.029 There needs to be room for exploration

NOTE Confidence: 0.792907774448395

01:26:07.029 --> 01:26:08.805 in multiple ideas and moving on

NOTE Confidence: 0.792907774448395

01:26:08.805 --> 01:26:10.590 to the next project to keep the

NOTE Confidence: 0.792907774448395

01:26:10.647 --> 01:26:12.459 academic mission moving forward.

NOTE Confidence: 0.792907774448395

01:26:12.460 --> 01:26:15.020 And I'm not judging one or the other,

NOTE Confidence: 0.792907774448395

01:26:15.020 --> 01:26:16.292 but they're they're not

NOTE Confidence: 0.792907774448395

01:26:16.292 --> 01:26:17.882 interchangeable in terms of behavior.

NOTE Confidence: 0.774172067642212

01:26:23.790 --> 01:26:27.340 Thanks Josh, anyone from the

NOTE Confidence: 0.774172067642212

01:26:27.340 --> 01:26:30.430 panel. Make a comma. Yeah,

NOTE Confidence: 0.875349223613739

01:26:30.430 --> 01:26:32.038 I'll just add 'cause I know

NOTE Confidence: 0.875349223613739

01:26:32.038 --> 01:26:33.450 we're running out of time,

NOTE Confidence: 0.875349223613739

01:26:33.450 --> 01:26:35.144 but you know in in recent years

NOTE Confidence: 0.875349223613739

01:26:35.144 --> 01:26:37.030 I I feel like I'm learning.

NOTE Confidence: 0.875349223613739

01:26:37.030 --> 01:26:38.680 Sometimes the friction 'cause we all.

NOTE Confidence: 0.875349223613739

01:26:38.680 --> 01:26:40.598 I think we've seen it I personally,

NOTE Confidence: 0.875349223613739

01:26:40.600 --> 01:26:42.196 but derive some sort of maybe

NOTE Confidence: 0.875349223613739

01:26:42.196 --> 01:26:44.098 insecurity on what we think. We know.

NOTE Confidence: 0.875349223613739

01:26:44.098 --> 01:26:45.736 What we don't know and this is

NOTE Confidence: 0.875349223613739

01:26:45.736 --> 01:26:47.499 really everyone involved in the drug

NOTE Confidence: 0.875349223613739

01:26:47.499 --> 01:26:49.313 development and I think very important

NOTE Confidence: 0.875349223613739

01:26:49.313 --> 01:26:51.308 principle is that from the process of

NOTE Confidence: 0.875349223613739

01:26:51.308 --> 01:26:53.105 just the molecule to getting it into

NOTE Confidence: 0.875349223613739

01:26:53.105 --> 01:26:55.000 a patient to then caring for that

NOTE Confidence: 0.875349223613739

01:26:55.000 --> 01:26:56.550 patient for several years afterwards.

NOTE Confidence: 0.875349223613739

01:26:56.550 --> 01:26:57.925 Every step of that process

NOTE Confidence: 0.875349223613739

01:26:57.925 --> 01:26:58.750 is enormously complex,

NOTE Confidence: 0.875349223613739

01:26:58.750 --> 01:27:00.200 and I thought I knew.

NOTE Confidence: 0.875349223613739

01:27:00.200 --> 01:27:02.192 A lot is an MD PhD work in

NOTE Confidence: 0.875349223613739

01:27:02.192 --> 01:27:04.089 the lab and in the clinic,

NOTE Confidence: 0.875349223613739

01:27:04.090 --> 01:27:05.475 and with Brexit going in

NOTE Confidence: 0.875349223613739

01:27:05.475 --> 01:27:06.583 the clinic this spring,

NOTE Confidence: 0.875349223613739

01:27:06.590 --> 01:27:07.898 you know unbelievably newfound

NOTE Confidence: 0.875349223613739

01:27:07.898 --> 01:27:09.533 respect for how difficult it

NOTE Confidence: 0.875349223613739

01:27:09.533 --> 01:27:11.399 is to get a drug just into the

NOTE Confidence: 0.875349223613739

01:27:11.399 --> 01:27:12.988 Ind and into a clinical trial.

NOTE Confidence: 0.875349223613739

01:27:12.990 --> 01:27:14.575 So I think really understanding

NOTE Confidence: 0.875349223613739

01:27:14.575 --> 01:27:16.160 and mutual respect often will

NOTE Confidence: 0.875349223613739

01:27:16.212 --> 01:27:17.843 stave off some of some of that

NOTE Confidence: 0.875349223613739

01:27:17.843 --> 01:27:18.830 friction in my opinion.

NOTE Confidence: 0.869390547275543

01:27:20.970 --> 01:27:23.690 Thanks Ron G. OK, so we are running

NOTE Confidence: 0.869390547275543

01:27:23.690 --> 01:27:26.220 up against the Clock here so again,

NOTE Confidence: 0.869390547275543

01:27:26.220 --> 01:27:27.620 thanks for the conversation.

NOTE Confidence: 0.869390547275543

01:27:27.620 --> 01:27:28.670 It's been great,

NOTE Confidence: 0.869390547275543

01:27:28.670 --> 01:27:30.770 sorry bout some of the disruptions,

NOTE Confidence: 0.869390547275543

01:27:30.770 --> 01:27:32.678 but hopefully you know we've been

NOTE Confidence: 0.869390547275543

01:27:32.678 --> 01:27:34.620 able to gather most questions.

NOTE Confidence: 0.869390547275543

01:27:34.620 --> 01:27:36.657 What I'd like to do right now

NOTE Confidence: 0.869390547275543

01:27:36.657 --> 01:27:38.710 is just turn the microphone over

NOTE Confidence: 0.869390547275543

01:27:38.710 --> 01:27:40.918 to Charlie Fuchs again just for

NOTE Confidence: 0.869390547275543

01:27:40.918 --> 01:27:43.366 a few closing remarks from him.

NOTE Confidence: 0.85202544927597

01:27:53.530 --> 01:27:55.220 Charlie please unmute.

NOTE Confidence: 0.892177820205688

01:27:56.190 --> 01:27:58.694 Sorry, sorry I want to thank him for

NOTE Confidence: 0.892177820205688

01:27:58.694 --> 01:28:01.213 running a phenomenal panel and all

NOTE Confidence: 0.892177820205688

01:28:01.213 --> 01:28:03.483 the panelists for great discussion.

NOTE Confidence: 0.892177820205688

01:28:03.490 --> 01:28:05.596 I think it was really instructive

NOTE Confidence: 0.892177820205688

01:28:05.596 --> 01:28:08.220 in terms of the science and frankly

NOTE Confidence: 0.892177820205688

01:28:08.220 --> 01:28:10.880 the challenges of what I think is

NOTE Confidence: 0.892177820205688

01:28:10.957 --> 01:28:13.465 at the forefront of cancer therapy.

NOTE Confidence: 0.892177820205688

01:28:13.470 --> 01:28:16.174 I also want to apologize to all panelists

NOTE Confidence: 0.892177820205688

01:28:16.174 --> 01:28:18.847 and the audience on the disruptions,

NOTE Confidence: 0.892177820205688

01:28:18.850 --> 01:28:21.306 and I can assure you that we are

NOTE Confidence: 0.892177820205688

01:28:21.306 --> 01:28:24.330 going to make sure that we don't

NOTE Confidence: 0.892177820205688

01:28:24.330 --> 01:28:26.194 experience a similar disruption.

NOTE Confidence: 0.892177820205688

01:28:26.200 --> 01:28:28.125 Again, I hope you all will use

NOTE Confidence: 0.892177820205688

01:28:28.125 --> 01:28:30.326 this as an opportunity to advance

NOTE Confidence: 0.892177820205688

01:28:30.326 --> 01:28:32.924 what was been a great conversation,

NOTE Confidence: 0.892177820205688

01:28:32.930 --> 01:28:34.342 because as I say,

NOTE Confidence: 0.892177820205688

01:28:34.342 --> 01:28:36.107 we want to build partnerships.

NOTE Confidence: 0.892177820205688

01:28:36.110 --> 01:28:38.322 I think you've heard today about the

NOTE Confidence: 0.892177820205688

01:28:38.322 --> 01:28:39.667 challenges of those partnerships

NOTE Confidence: 0.892177820205688

01:28:39.667 --> 01:28:41.998 and we want to make them smooth

NOTE Confidence: 0.892177820205688

01:28:41.998 --> 01:28:43.568 and successful because ultimately

NOTE Confidence: 0.892177820205688

01:28:43.568 --> 01:28:45.668 to really advance cancer therapy,

NOTE Confidence: 0.892177820205688

01:28:45.670 --> 01:28:47.788 it's going to require a community,

NOTE Confidence: 0.892177820205688

01:28:47.790 --> 01:28:49.967 so please feel free to reach out

NOTE Confidence: 0.892177820205688

01:28:49.967 --> 01:28:52.040 to me to the panelists.

NOTE Confidence: 0.892177820205688

01:28:52.040 --> 01:28:54.164 We hope this is the beginning

NOTE Confidence: 0.892177820205688

01:28:54.164 --> 01:28:55.226 of a conversation.

NOTE Confidence: 0.892177820205688

01:28:55.230 --> 01:28:58.488 In addition, I hope you'll all join us again.

NOTE Confidence: 0.892177820205688

01:28:58.490 --> 01:28:59.962 On Wednesday, December 9th,

NOTE Confidence: 0.892177820205688

01:28:59.962 --> 01:29:01.066 at 1:00 o'clock,

NOTE Confidence: 0.892177820205688

01:29:01.070 --> 01:29:04.373 when are third in the series of Yale engage,

NOTE Confidence: 0.892177820205688

01:29:04.380 --> 01:29:06.210 cancer will be defining mechanisms

NOTE Confidence: 0.892177820205688

01:29:06.210 --> 01:29:07.674 and biomarkers of sensitivity

NOTE Confidence: 0.892177820205688

01:29:07.674 --> 01:29:09.546 and resistance to anti cancer

NOTE Confidence: 0.892177820205688

01:29:09.546 --> 01:29:10.998 treatments and then finally,

NOTE Confidence: 0.892177820205688

01:29:11.000 --> 01:29:13.944 it just want to once again thank Tim.

NOTE Confidence: 0.892177820205688

01:29:13.950 --> 01:29:16.875 Tim is Tim Shannon is a member of the

NOTE Confidence: 0.892177820205688

01:29:16.875 --> 01:29:19.359 board of our Our Cancer Center and

NOTE Confidence: 0.892177820205688

01:29:19.359 --> 01:29:21.661 has been really a great supporter

NOTE Confidence: 0.892177820205688

01:29:21.661 --> 01:29:24.566 of all that we do and including

NOTE Confidence: 0.892177820205688

01:29:24.566 --> 01:29:26.326 running today's session and Tim,

NOTE Confidence: 0.892177820205688

01:29:26.326 --> 01:29:28.330 I'll turn it over you for

NOTE Confidence: 0.892177820205688

01:29:28.401 --> 01:29:30.137 the final closing remarks.

NOTE Confidence: 0.892177820205688

01:29:30.140 --> 01:29:30.420 Thanks

NOTE Confidence: 0.837284672260284

01:29:30.420 --> 01:29:31.980 Charlie, thanks very much.

NOTE Confidence: 0.837284672260284

01:29:31.980 --> 01:29:34.442 Again, yeah, so just let me extend thanks

NOTE Confidence: 0.837284672260284

01:29:34.442 --> 01:29:36.880 to the audience to our faculty panelists.

NOTE Confidence: 0.837284672260284

01:29:36.880 --> 01:29:39.127 Special thanks to Josh for carving out

NOTE Confidence: 0.837284672260284

01:29:39.127 --> 01:29:41.804 time of his day. Josh, we hope to.

NOTE Confidence: 0.837284672260284

01:29:41.804 --> 01:29:45.410 To see more and more here around Yale again,

NOTE Confidence: 0.837284672260284

01:29:45.410 --> 01:29:47.874 all I can say is you know,

NOTE Confidence: 0.837284672260284

01:29:47.880 --> 01:29:49.998 like most people on the call,

NOTE Confidence: 0.837284672260284

01:29:50.000 --> 01:29:52.100 this is my passion of trying

NOTE Confidence: 0.837284672260284

01:29:52.100 --> 01:29:53.880 to do hard things and.

NOTE Confidence: 0.837284672260284

01:29:53.880 --> 01:29:55.830 You know getting him into

NOTE Confidence: 0.837284672260284

01:29:55.830 --> 01:29:57.390 humans and hopefully making

NOTE Confidence: 0.837284672260284

01:29:57.390 --> 01:29:59.770 a difference in humans lives,

NOTE Confidence: 0.837284672260284

01:29:59.770 --> 01:30:03.559 so it's a great community to be part of.

NOTE Confidence: 0.837284672260284

01:30:03.560 --> 01:30:06.086 Yale's got great things going on.

NOTE Confidence: 0.837284672260284

01:30:06.090 --> 01:30:09.114 It is easy place to engage with so

NOTE Confidence: 0.837284672260284

01:30:09.114 --> 01:30:12.812 you know in reflection of the name of

NOTE Confidence: 0.837284672260284

01:30:12.812 --> 01:30:15.768 the event would encourage all of you.

NOTE Confidence: 0.837284672260284

01:30:15.770 --> 01:30:17.458 Again, we're interested to

NOTE Confidence: 0.837284672260284

01:30:17.458 --> 01:30:19.568 engage with Yale Cancer Center.

NOTE Confidence: 0.837284672260284

01:30:19.570 --> 01:30:21.346 Try to do some important things.

NOTE Confidence: 0.837284672260284

01:30:21.350 --> 01:30:22.241 No thanks everyone,

NOTE Confidence: 0.837284672260284

01:30:22.241 --> 01:30:24.023 and with that will sign off.