

WEBVTT

NOTE duration: "00:09:40.693"

NOTE Confidence: 0.9824236

00:00:00.080 --> 00:00:01.360 I just wanted to,

NOTE Confidence: 0.9788921

00:00:02.480 --> 00:00:03.860 provide sort of a

NOTE Confidence: 0.9531466

00:00:04.720 --> 00:00:06.100 a few slides on

NOTE Confidence: 0.9568077

00:00:06.799 --> 00:00:07.759 where we are and where

NOTE Confidence: 0.9568077

00:00:07.759 --> 00:00:09.440 we're going to in building

NOTE Confidence: 0.9568077

00:00:09.440 --> 00:00:11.059 the future of precision medicine

NOTE Confidence: 0.9568077

00:00:11.280 --> 00:00:12.639 at the Adam Center and

NOTE Confidence: 0.9568077

00:00:12.639 --> 00:00:13.460 and globally.

NOTE Confidence: 0.98371065

00:00:14.255 --> 00:00:15.855 And I'm glad that Luke

NOTE Confidence: 0.98371065

00:00:15.855 --> 00:00:17.215 started us on a on

NOTE Confidence: 0.98371065

00:00:17.215 --> 00:00:19.055 a poetic way because I'm

NOTE Confidence: 0.98371065

00:00:19.055 --> 00:00:20.175 going to continue on a

NOTE Confidence: 0.98371065

00:00:20.175 --> 00:00:21.154 poetic way

NOTE Confidence: 0.91572726

00:00:21.454 --> 00:00:21.935 with,

NOTE Confidence: 0.98870283

00:00:22.335 --> 00:00:24.195 a quote from Eleanor Roosevelt.

NOTE Confidence: 0.98870283

00:00:24.494 --> 00:00:26.275 Surely, it is more intelligent

NOTE Confidence: 0.98870283

00:00:26.414 --> 00:00:27.075 to hope

NOTE Confidence: 0.9885355

00:00:27.500 --> 00:00:29.180 rather than to fear, to

NOTE Confidence: 0.9885355

00:00:29.180 --> 00:00:30.700 try rather than not to

NOTE Confidence: 0.9885355

00:00:30.700 --> 00:00:32.700 try. For one thing, we

NOTE Confidence: 0.9885355

00:00:32.700 --> 00:00:34.479 know beyond all doubt.

NOTE Confidence: 0.9955599

00:00:34.940 --> 00:00:36.540 Nothing has ever been achieved

NOTE Confidence: 0.9955599

00:00:36.540 --> 00:00:38.059 by the person who says

NOTE Confidence: 0.9955599

00:00:38.059 --> 00:00:39.200 it can't be done.

NOTE Confidence: 0.95034015

00:00:39.659 --> 00:00:41.200 You must do the thing

NOTE Confidence: 0.95034015

00:00:41.500 --> 00:00:42.975 you think you cannot do.

NOTE Confidence: 0.95034015

00:00:43.215 --> 00:00:45.055 And this is exactly what

NOTE Confidence: 0.95034015

00:00:45.055 --> 00:00:46.175 we're working on in the

NOTE Confidence: 0.95034015

00:00:46.175 --> 00:00:47.534 Adam Center to do the

NOTE Confidence: 0.95034015

00:00:47.534 --> 00:00:48.034 impossible,

NOTE Confidence: 0.977086
00:00:49.214 --> 00:00:50.975 to make the impossible possible
NOTE Confidence: 0.977086
00:00:50.975 --> 00:00:53.295 and develop precision medicines to
NOTE Confidence: 0.977086
00:00:53.295 --> 00:00:53.795 prevent
NOTE Confidence: 0.99397594
00:00:54.254 --> 00:00:56.195 and slow Parkinson's disease.
NOTE Confidence: 0.9712996
00:00:56.600 --> 00:00:58.120 And, really, everything we do
NOTE Confidence: 0.9712996
00:00:58.120 --> 00:00:59.640 is for our patients, and
NOTE Confidence: 0.9712996
00:00:59.640 --> 00:01:00.620 I want to,
NOTE Confidence: 0.93217707
00:01:01.640 --> 00:01:03.080 look back to two of
NOTE Confidence: 0.93217707
00:01:03.080 --> 00:01:04.780 my patients at Mass General.
NOTE Confidence: 0.9909083
00:01:06.040 --> 00:01:06.540 John
NOTE Confidence: 0.9981532
00:01:07.480 --> 00:01:08.540 has had Parkinson's
NOTE Confidence: 0.9539528
00:01:08.920 --> 00:01:10.200 for eight years, and here
NOTE Confidence: 0.9539528
00:01:10.200 --> 00:01:12.205 we're looking at his cognitive
NOTE Confidence: 0.9539528
00:01:12.345 --> 00:01:12.845 decline
NOTE Confidence: 0.9163078
00:01:13.145 --> 00:01:14.125 over time.
NOTE Confidence: 0.9772335

00:01:15.065 --> 00:01:16.105 After eight years, he was
NOTE Confidence: 0.9772335

00:01:16.105 --> 00:01:17.305 still able to play hundred
NOTE Confidence: 0.9772335

00:01:17.305 --> 00:01:18.985 sixty five rounds of golf
NOTE Confidence: 0.9772335

00:01:18.985 --> 00:01:19.944 a day and play with
NOTE Confidence: 0.9772335

00:01:19.944 --> 00:01:20.685 his grandchildren.
NOTE Confidence: 0.99964905

00:01:21.785 --> 00:01:23.545 His quality of life was
NOTE Confidence: 0.99964905

00:01:23.545 --> 00:01:24.045 fantastic.
NOTE Confidence: 0.9988076

00:01:25.709 --> 00:01:27.490 On the other hand, Kevin,
NOTE Confidence: 0.9694642

00:01:28.110 --> 00:01:30.049 who was a molecular biologist,
NOTE Confidence: 0.6978379

00:01:31.310 --> 00:01:31.970 a similar,
NOTE Confidence: 0.912673

00:01:32.430 --> 00:01:33.490 disease duration.
NOTE Confidence: 0.8924242

00:01:33.950 --> 00:01:35.390 But one day, his wife,
NOTE Confidence: 0.8924242

00:01:35.390 --> 00:01:36.509 a nurse came home, and
NOTE Confidence: 0.8924242

00:01:36.509 --> 00:01:37.805 she was looking,
NOTE Confidence: 0.96953

00:01:38.265 --> 00:01:40.025 into the space, staring into
NOTE Confidence: 0.96953

00:01:40.025 --> 00:01:41.785 space, reaching for things that

NOTE Confidence: 0.96953
00:01:41.785 --> 00:01:42.685 were not there.
NOTE Confidence: 0.99805367
00:01:43.225 --> 00:01:44.745 He lost his memory. He
NOTE Confidence: 0.99805367
00:01:44.745 --> 00:01:46.425 lost his job. His wife
NOTE Confidence: 0.99805367
00:01:46.425 --> 00:01:47.705 had to give up her
NOTE Confidence: 0.99805367
00:01:47.705 --> 00:01:49.145 job as a nurse to
NOTE Confidence: 0.99805367
00:01:49.145 --> 00:01:50.425 take care of him full
NOTE Confidence: 0.99805367
00:01:50.425 --> 00:01:50.925 time.
NOTE Confidence: 0.9912369
00:01:51.750 --> 00:01:52.410 And so
NOTE Confidence: 0.99902683
00:01:53.670 --> 00:01:55.750 so this is exactly what
NOTE Confidence: 0.99902683
00:01:55.750 --> 00:01:56.250 we
NOTE Confidence: 0.95114166
00:01:56.550 --> 00:01:58.970 want to predict and prevent
NOTE Confidence: 0.95114166
00:01:59.190 --> 00:02:00.870 at the Adam Center. Turns
NOTE Confidence: 0.95114166
00:02:00.870 --> 00:02:03.350 out Kevin had actually two
NOTE Confidence: 0.95114166
00:02:03.350 --> 00:02:05.370 mutations in the GBA gene,
NOTE Confidence: 0.95114166
00:02:05.670 --> 00:02:06.170 and
NOTE Confidence: 0.99829113

00:02:07.035 --> 00:02:08.235 what we want to do
NOTE Confidence: 0.99829113

00:02:08.235 --> 00:02:09.695 is develop GBA
NOTE Confidence: 0.8080399

00:02:10.555 --> 00:02:11.535 directed therapeutics
NOTE Confidence: 0.90286696

00:02:11.835 --> 00:02:13.835 in this case that bring
NOTE Confidence: 0.90286696

00:02:13.835 --> 00:02:15.355 all the Kevins of the
NOTE Confidence: 0.90286696

00:02:15.355 --> 00:02:17.055 world back to the Johns',
NOTE Confidence: 0.9928285

00:02:17.755 --> 00:02:19.195 and to play hundred sixty
NOTE Confidence: 0.9928285

00:02:19.195 --> 00:02:20.655 five rounds of golf
NOTE Confidence: 0.9991617

00:02:21.035 --> 00:02:21.775 a year.
NOTE Confidence: 0.9991173

00:02:23.800 --> 00:02:24.300 So
NOTE Confidence: 0.99820805

00:02:25.320 --> 00:02:27.500 this pathway has been nicely
NOTE Confidence: 0.99820805

00:02:27.560 --> 00:02:28.060 mapped.
NOTE Confidence: 0.9936827

00:02:28.440 --> 00:02:30.040 We we were able to
NOTE Confidence: 0.9936827

00:02:30.040 --> 00:02:30.540 contribute,
NOTE Confidence: 0.9102356

00:02:31.080 --> 00:02:32.919 to genetics and to a
NOTE Confidence: 0.9102356

00:02:32.919 --> 00:02:33.419 biomarkers,

NOTE Confidence: 0.8819494
00:02:34.120 --> 00:02:35.580 portfolio around it,
NOTE Confidence: 0.9991202
00:02:35.960 --> 00:02:36.460 collaborated
NOTE Confidence: 0.84005475
00:02:36.840 --> 00:02:37.340 with,
NOTE Confidence: 0.8948536
00:02:38.044 --> 00:02:40.385 Sanofi, Pablo Sardi on on
NOTE Confidence: 0.8948536
00:02:40.525 --> 00:02:42.705 drug trials, and many companies
NOTE Confidence: 0.960624
00:02:43.165 --> 00:02:45.025 are attacking these pathways
NOTE Confidence: 0.9907112
00:02:45.565 --> 00:02:46.865 to develop therapeutics,
NOTE Confidence: 0.9500474
00:02:47.645 --> 00:02:48.465 gene replacement,
NOTE Confidence: 0.962935
00:02:49.165 --> 00:02:50.225 chaperone therapies.
NOTE Confidence: 0.99773735
00:02:50.860 --> 00:02:51.680 So I
NOTE Confidence: 0.9973517
00:02:52.060 --> 00:02:53.180 think, this will
NOTE Confidence: 0.8947735
00:02:53.980 --> 00:02:55.580 the future is really looking
NOTE Confidence: 0.8947735
00:02:55.580 --> 00:02:56.080 promising,
NOTE Confidence: 0.9745139
00:02:56.620 --> 00:02:59.419 for GBA directed precision trials
NOTE Confidence: 0.9745139
00:02:59.419 --> 00:03:01.040 and treatments in the future.
NOTE Confidence: 0.9745139

00:03:01.260 --> 00:03:02.700 And, yeah, and this is
NOTE Confidence: 0.9745139

00:03:02.700 --> 00:03:03.200 GBA,
NOTE Confidence: 0.98876417

00:03:03.695 --> 00:03:05.055 which affects ten percent of
NOTE Confidence: 0.98876417

00:03:05.055 --> 00:03:06.575 Parkinson's patient. We want to
NOTE Confidence: 0.98876417

00:03:06.575 --> 00:03:08.014 do this all over again
NOTE Confidence: 0.98876417

00:03:08.014 --> 00:03:08.835 for all
NOTE Confidence: 0.9724277

00:03:09.135 --> 00:03:11.395 patients with with Parkinson's disease.
NOTE Confidence: 0.9405942

00:03:11.775 --> 00:03:13.375 And I'm really excited that
NOTE Confidence: 0.9405942

00:03:13.375 --> 00:03:14.575 the Adam Center is the
NOTE Confidence: 0.9405942

00:03:14.575 --> 00:03:16.035 only center in the world
NOTE Confidence: 0.9405942

00:03:16.175 --> 00:03:16.655 for,
NOTE Confidence: 0.9765387

00:03:17.310 --> 00:03:19.010 precision medicine for Parkinson's
NOTE Confidence: 0.99919

00:03:19.310 --> 00:03:20.050 and related
NOTE Confidence: 0.9388358

00:03:20.510 --> 00:03:21.330 brain diseases.
NOTE Confidence: 0.9907658

00:03:21.790 --> 00:03:22.850 And this is really,
NOTE Confidence: 0.99679404

00:03:23.230 --> 00:03:24.370 going to change,

NOTE Confidence: 0.9987127
00:03:25.150 --> 00:03:26.770 the way we do neurology
NOTE Confidence: 0.9987127
00:03:26.830 --> 00:03:27.870 and the way we treat
NOTE Confidence: 0.9987127
00:03:27.870 --> 00:03:28.370 Parkinson's.
NOTE Confidence: 0.9617002
00:03:28.990 --> 00:03:30.590 Currently, all we do is
NOTE Confidence: 0.9617002
00:03:30.590 --> 00:03:31.090 reactive,
NOTE Confidence: 0.9933866
00:03:31.390 --> 00:03:33.255 one size fits all. We
NOTE Confidence: 0.9933866
00:03:33.255 --> 00:03:35.015 want to reimagine health care
NOTE Confidence: 0.9933866
00:03:35.015 --> 00:03:36.955 to make it predictive,
NOTE Confidence: 0.99344784
00:03:37.895 --> 00:03:39.595 preventive, and precise.
NOTE Confidence: 0.9929987
00:03:40.615 --> 00:03:41.095 And,
NOTE Confidence: 0.9989584
00:03:41.815 --> 00:03:42.935 my wife is going to
NOTE Confidence: 0.9989584
00:03:42.935 --> 00:03:44.455 cringe now in in the
NOTE Confidence: 0.9989584
00:03:44.455 --> 00:03:44.955 audience
NOTE Confidence: 0.9495465
00:03:45.690 --> 00:03:47.530 because the inspiration for how
NOTE Confidence: 0.9495465
00:03:47.530 --> 00:03:48.730 to do this is actually
NOTE Confidence: 0.9495465

00:03:48.730 --> 00:03:50.330 coming from Science Fiction from
NOTE Confidence: 0.9495465

00:03:50.330 --> 00:03:51.849 Harry Seldon, who is the
NOTE Confidence: 0.9495465

00:03:51.849 --> 00:03:53.709 hero of the foundation series.
NOTE Confidence: 0.9495465

00:03:53.849 --> 00:03:55.550 Harry Seldon is a mathematician
NOTE Confidence: 0.8671166

00:03:55.930 --> 00:03:57.390 in the galactic empire,
NOTE Confidence: 0.9997527

00:03:57.930 --> 00:03:59.069 and he developed
NOTE Confidence: 0.9566455

00:03:59.535 --> 00:04:00.035 psychohistory,
NOTE Confidence: 0.9152057

00:04:01.055 --> 00:04:01.635 a mathematical
NOTE Confidence: 0.9996656

00:04:01.935 --> 00:04:02.435 algorithm
NOTE Confidence: 0.93017596

00:04:03.135 --> 00:04:04.435 to take centuries
NOTE Confidence: 0.93164825

00:04:04.974 --> 00:04:05.875 of data
NOTE Confidence: 0.99737936

00:04:06.175 --> 00:04:06.995 on civilizations
NOTE Confidence: 0.9992018

00:04:07.455 --> 00:04:08.275 and planets
NOTE Confidence: 0.9144839

00:04:09.135 --> 00:04:10.575 to, based on these billions
NOTE Confidence: 0.9144839

00:04:10.575 --> 00:04:11.635 of data points,
NOTE Confidence: 0.99978787

00:04:11.970 --> 00:04:12.470 predict

NOTE Confidence: 0.9997656
00:04:12.849 --> 00:04:14.150 the outcome of
NOTE Confidence: 0.9877516
00:04:14.450 --> 00:04:16.850 future civilization and make the
NOTE Confidence: 0.9877516
00:04:16.850 --> 00:04:19.169 minimal needed changes to prevent
NOTE Confidence: 0.9877516
00:04:19.169 --> 00:04:20.850 bad things from happening. And
NOTE Confidence: 0.9877516
00:04:20.850 --> 00:04:22.130 that's exactly what we want
NOTE Confidence: 0.9877516
00:04:22.130 --> 00:04:23.750 to do for Parkinson's disease,
NOTE Confidence: 0.9877516
00:04:23.889 --> 00:04:26.175 map all data in, in
NOTE Confidence: 0.9877516
00:04:26.175 --> 00:04:27.455 as many patients as we
NOTE Confidence: 0.9877516
00:04:27.455 --> 00:04:28.675 can longitudinally.
NOTE Confidence: 0.99225545
00:04:29.775 --> 00:04:30.975 And we are we have
NOTE Confidence: 0.99225545
00:04:30.975 --> 00:04:31.955 set up platforms
NOTE Confidence: 0.9979226
00:04:32.255 --> 00:04:33.214 to do this at the
NOTE Confidence: 0.9979226
00:04:33.214 --> 00:04:34.595 level of brain cells,
NOTE Confidence: 0.9676542
00:04:34.975 --> 00:04:36.895 deep cohorts, and real world
NOTE Confidence: 0.9676542
00:04:36.895 --> 00:04:38.595 data, and we're measuring,
NOTE Confidence: 0.9933666

00:04:39.490 --> 00:04:40.630 genetics, transcriptomics,
NOTE Confidence: 0.96762395

00:04:41.250 --> 00:04:42.930 omics across all of these
NOTE Confidence: 0.96762395

00:04:42.930 --> 00:04:43.430 platforms.
NOTE Confidence: 0.99100566

00:04:45.330 --> 00:04:47.110 And with with this
NOTE Confidence: 0.85318404

00:04:48.050 --> 00:04:49.589 with this, dataset
NOTE Confidence: 0.95644253

00:04:50.050 --> 00:04:51.990 and linked the linked biospecimens
NOTE Confidence: 0.98869705

00:04:52.449 --> 00:04:53.570 that we have and the
NOTE Confidence: 0.98869705

00:04:53.570 --> 00:04:54.070 linked
NOTE Confidence: 0.99837905

00:04:54.435 --> 00:04:56.135 personal stem cell avatars
NOTE Confidence: 0.96035385

00:04:56.595 --> 00:04:57.875 will be able to,
NOTE Confidence: 0.997696

00:04:59.235 --> 00:04:59.735 identify
NOTE Confidence: 0.9251465

00:05:00.115 --> 00:05:01.795 disease drivers in each patients.
NOTE Confidence: 0.9251465

00:05:01.795 --> 00:05:02.935 For example, GBA,
NOTE Confidence: 0.98187214

00:05:03.795 --> 00:05:05.235 go to our freezers to
NOTE Confidence: 0.98187214

00:05:05.235 --> 00:05:06.214 take out the cryopreserved
NOTE Confidence: 0.9918907

00:05:06.595 --> 00:05:07.575 white blood cells

NOTE Confidence: 0.95014626
00:05:08.050 --> 00:05:09.830 and make them into personal
NOTE Confidence: 0.95014626
00:05:09.970 --> 00:05:11.729 stem cells for clinical trials
NOTE Confidence: 0.95014626
00:05:11.729 --> 00:05:13.330 in a dish, work with
NOTE Confidence: 0.95014626
00:05:13.330 --> 00:05:13.830 pharmaceutical
NOTE Confidence: 0.9767885
00:05:14.290 --> 00:05:15.970 companies as well as across
NOTE Confidence: 0.9767885
00:05:15.970 --> 00:05:17.910 Yale to develop precision
NOTE Confidence: 0.87436795
00:05:18.289 --> 00:05:18.789 medicines,
NOTE Confidence: 0.9970677
00:05:19.169 --> 00:05:20.229 and then recontact
NOTE Confidence: 0.94817
00:05:20.850 --> 00:05:21.509 the patients
NOTE Confidence: 0.9782583
00:05:22.335 --> 00:05:22.835 to,
NOTE Confidence: 0.97336376
00:05:23.375 --> 00:05:25.235 do smart proof of concept,
NOTE Confidence: 0.9566143
00:05:25.615 --> 00:05:27.615 clinical trials right here in
NOTE Confidence: 0.9566143
00:05:27.615 --> 00:05:29.375 the movement disorders clinic with
NOTE Confidence: 0.9566143
00:05:29.375 --> 00:05:31.055 doctor Vives and and other
NOTE Confidence: 0.9566143
00:05:31.055 --> 00:05:31.555 colleagues.
NOTE Confidence: 0.9915229

00:05:32.495 --> 00:05:33.714 And, so
NOTE Confidence: 0.9017907

00:05:34.015 --> 00:05:34.755 we are,
NOTE Confidence: 0.94330055

00:05:36.510 --> 00:05:38.190 our goal is or we're
NOTE Confidence: 0.94330055

00:05:38.190 --> 00:05:40.050 inviting we want all
NOTE Confidence: 0.99288327

00:05:40.670 --> 00:05:42.610 scientists, physicians, and engineers
NOTE Confidence: 0.99836886

00:05:43.070 --> 00:05:44.050 across Yale
NOTE Confidence: 0.9920065

00:05:44.589 --> 00:05:46.130 to, work together
NOTE Confidence: 0.94715285

00:05:46.510 --> 00:05:48.350 with a shared passion to
NOTE Confidence: 0.94715285

00:05:48.350 --> 00:05:49.970 solve Parkinson's disease.
NOTE Confidence: 0.95385367

00:05:50.430 --> 00:05:52.014 And to do this, we
NOTE Confidence: 0.95385367

00:05:52.014 --> 00:05:52.514 are,
NOTE Confidence: 0.9879141

00:05:54.495 --> 00:05:55.214 setting up,
NOTE Confidence: 0.99729383

00:05:55.694 --> 00:05:56.595 six platforms
NOTE Confidence: 0.9275261

00:05:57.775 --> 00:05:58.275 to,
NOTE Confidence: 0.99880636

00:05:59.134 --> 00:06:01.315 leverage the ingenuity of academic
NOTE Confidence: 0.99468994

00:06:01.694 --> 00:06:03.535 labs and combine it with

NOTE Confidence: 0.99468994
00:06:03.535 --> 00:06:04.514 the efficiency
NOTE Confidence: 0.8990068
00:06:04.815 --> 00:06:05.955 of a a biotech
NOTE Confidence: 0.9947108
00:06:06.335 --> 00:06:07.074 drug development
NOTE Confidence: 0.9789339
00:06:09.250 --> 00:06:11.029 platform to, bring
NOTE Confidence: 0.9561234
00:06:11.490 --> 00:06:13.350 new targets and new drugs
NOTE Confidence: 0.9561234
00:06:13.650 --> 00:06:14.710 to early,
NOTE Confidence: 0.99100447
00:06:15.170 --> 00:06:16.630 stage clinical trials.
NOTE Confidence: 0.9996629
00:06:17.010 --> 00:06:17.510 We
NOTE Confidence: 0.9564042
00:06:17.890 --> 00:06:19.830 already have a genomics platform,
NOTE Confidence: 0.9994092
00:06:20.764 --> 00:06:21.585 at work.
NOTE Confidence: 0.99350405
00:06:21.885 --> 00:06:22.685 We have,
NOTE Confidence: 0.9554839
00:06:23.245 --> 00:06:24.925 the beginnings of an AI
NOTE Confidence: 0.9554839
00:06:24.925 --> 00:06:26.285 platform. We're still,
NOTE Confidence: 0.88810664
00:06:26.685 --> 00:06:28.285 recruiting on building this app
NOTE Confidence: 0.88810664
00:06:28.285 --> 00:06:30.145 to use AI to predict
NOTE Confidence: 0.9169293

00:06:30.764 --> 00:06:31.425 the disease,
NOTE Confidence: 0.9636858

00:06:31.805 --> 00:06:34.150 to develop better drugs, to
NOTE Confidence: 0.9636858

00:06:34.150 --> 00:06:35.289 do drug repurposing,
NOTE Confidence: 0.9389899

00:06:35.910 --> 00:06:36.949 and to,
NOTE Confidence: 0.99851847

00:06:37.669 --> 00:06:38.169 prognosticate.
NOTE Confidence: 0.95613635

00:06:39.589 --> 00:06:40.389 We are,
NOTE Confidence: 0.9180463

00:06:42.310 --> 00:06:43.830 we are glad that Don
NOTE Confidence: 0.9180463

00:06:43.830 --> 00:06:44.330 Hui,
NOTE Confidence: 0.94946426

00:06:44.949 --> 00:06:46.870 Lin joined us. He's a
NOTE Confidence: 0.94946426

00:06:46.870 --> 00:06:48.889 specialist in antisense oligonucleate,
NOTE Confidence: 0.91154647

00:06:50.035 --> 00:06:51.815 therapeutics. Are you here, Donohue?
NOTE Confidence: 0.91154647

00:06:51.875 --> 00:06:52.995 There you are. From the
NOTE Confidence: 0.91154647

00:06:52.995 --> 00:06:53.895 Peron Institute,
NOTE Confidence: 0.98556536

00:06:54.195 --> 00:06:55.975 and he's working on ASOs
NOTE Confidence: 0.98556536

00:06:56.115 --> 00:06:57.654 for Parkinson's genes.
NOTE Confidence: 0.9627367

00:06:58.195 --> 00:07:00.035 And we're working with,

NOTE Confidence: 0.85275954
00:07:01.154 --> 00:07:03.095 Don Gellert and Kevin Hartshitz
NOTE Confidence: 0.9786326
00:07:03.539 --> 00:07:05.620 on medicinal chemistry of some
NOTE Confidence: 0.9786326
00:07:05.620 --> 00:07:06.979 of the repurposed drugs, but
NOTE Confidence: 0.9786326
00:07:06.979 --> 00:07:08.099 this is also one of
NOTE Confidence: 0.9786326
00:07:08.099 --> 00:07:09.539 the goals. So the light
NOTE Confidence: 0.9786326
00:07:09.539 --> 00:07:11.020 blue are the platforms that
NOTE Confidence: 0.9786326
00:07:11.139 --> 00:07:12.259 where we have sort of
NOTE Confidence: 0.9786326
00:07:12.259 --> 00:07:13.300 a a seed, but we're
NOTE Confidence: 0.9786326
00:07:13.300 --> 00:07:14.580 hoping to build it up
NOTE Confidence: 0.9786326
00:07:14.580 --> 00:07:15.479 over the years.
NOTE Confidence: 0.9608132
00:07:18.854 --> 00:07:19.914 The fourth platform,
NOTE Confidence: 0.95538086
00:07:20.775 --> 00:07:22.935 personal drug tiles with stem
NOTE Confidence: 0.95538086
00:07:22.935 --> 00:07:23.435 cells,
NOTE Confidence: 0.90937334
00:07:23.895 --> 00:07:25.655 in a dish and with
NOTE Confidence: 0.90937334
00:07:25.655 --> 00:07:26.155 fluclay
NOTE Confidence: 0.8806126

00:07:26.535 --> 00:07:27.595 on on a chip.
NOTE Confidence: 0.9738898

00:07:29.175 --> 00:07:31.275 The Yale Harvard biomarker study
NOTE Confidence: 0.9738898

00:07:31.520 --> 00:07:32.560 where we have more than
NOTE Confidence: 0.9738898

00:07:32.560 --> 00:07:34.100 four hundred thousand biosamples,
NOTE Confidence: 0.9182005

00:07:34.560 --> 00:07:36.740 four four thousand patients enrolled,
NOTE Confidence: 0.98451775

00:07:37.280 --> 00:07:39.280 thousand currently being enrolled by
NOTE Confidence: 0.98451775

00:07:39.280 --> 00:07:40.180 twenty six,
NOTE Confidence: 0.99822515

00:07:40.720 --> 00:07:42.980 that allow to link data
NOTE Confidence: 0.99822515

00:07:43.280 --> 00:07:44.020 to biosamples
NOTE Confidence: 0.97365004

00:07:44.640 --> 00:07:45.540 and to patients.
NOTE Confidence: 0.86024916

00:07:46.160 --> 00:07:46.640 And,
NOTE Confidence: 0.99880445

00:07:47.625 --> 00:07:48.365 most importantly,
NOTE Confidence: 0.99958634

00:07:49.225 --> 00:07:50.125 we want
NOTE Confidence: 0.92200595

00:07:50.905 --> 00:07:52.765 to take with great urgency,
NOTE Confidence: 0.98536813

00:07:53.945 --> 00:07:56.585 compounds, new drugs into early
NOTE Confidence: 0.98536813

00:07:56.585 --> 00:07:58.445 stage proof of concept trials,

NOTE Confidence: 0.9995641
00:07:59.145 --> 00:08:00.045 working with
NOTE Confidence: 0.9394971
00:08:01.040 --> 00:08:02.900 clinical division of movement disorders
NOTE Confidence: 0.9394971
00:08:02.960 --> 00:08:04.420 and and Jesse Sederbaum.
NOTE Confidence: 0.9777334
00:08:05.520 --> 00:08:07.700 And so we are thrilled
NOTE Confidence: 0.9777334
00:08:08.000 --> 00:08:09.680 to have so many labs
NOTE Confidence: 0.9777334
00:08:09.680 --> 00:08:10.180 working,
NOTE Confidence: 0.93714994
00:08:11.520 --> 00:08:13.520 in the center within walls
NOTE Confidence: 0.93714994
00:08:13.520 --> 00:08:14.020 and
NOTE Confidence: 0.9996095
00:08:14.435 --> 00:08:15.574 and without walls
NOTE Confidence: 0.8981121
00:08:15.955 --> 00:08:17.175 and with wonderful,
NOTE Confidence: 0.97040874
00:08:17.715 --> 00:08:18.215 collaborations
NOTE Confidence: 0.9780793
00:08:18.835 --> 00:08:21.414 developing with, departments of neuroscience,
NOTE Confidence: 0.9780793
00:08:21.634 --> 00:08:22.134 neurology,
NOTE Confidence: 0.80237603
00:08:22.435 --> 00:08:22.935 bits,
NOTE Confidence: 0.9983924
00:08:23.715 --> 00:08:24.215 radiology,
NOTE Confidence: 0.99730045

00:08:25.395 --> 00:08:26.455 and and genetics.
NOTE Confidence: 0.99944514

00:08:27.710 --> 00:08:28.210 And
NOTE Confidence: 0.99923027

00:08:28.830 --> 00:08:29.330 Yale
NOTE Confidence: 0.999761

00:08:29.950 --> 00:08:31.650 has a powerful ecosystem
NOTE Confidence: 0.9990922

00:08:32.110 --> 00:08:33.330 for neuroscience
NOTE Confidence: 0.9986869

00:08:33.950 --> 00:08:35.710 that we can leverage to
NOTE Confidence: 0.9986869

00:08:35.710 --> 00:08:36.690 make this happen.
NOTE Confidence: 0.9920769

00:08:38.110 --> 00:08:39.570 Over the last years,
NOTE Confidence: 0.8850239

00:08:40.270 --> 00:08:42.075 Yale was, I think, the
NOTE Confidence: 0.8850239

00:08:42.315 --> 00:08:42.815 only,
NOTE Confidence: 0.9880361

00:08:43.755 --> 00:08:44.875 place in the world that
NOTE Confidence: 0.9880361

00:08:44.875 --> 00:08:46.175 got four ASAP,
NOTE Confidence: 0.941768

00:08:46.875 --> 00:08:49.195 grants with altogether fifty four
NOTE Confidence: 0.941768

00:08:49.195 --> 00:08:50.095 million dollars,
NOTE Confidence: 0.9359349

00:08:50.955 --> 00:08:52.475 from the ASAP Foundation. So
NOTE Confidence: 0.9359349

00:08:52.475 --> 00:08:54.655 thank you ASAP Foundation. That's

NOTE Confidence: 0.9380565

00:08:55.035 --> 00:08:57.550 really great. And we also,

NOTE Confidence: 0.9380565

00:08:57.850 --> 00:08:59.850 last year, were awarded the

NOTE Confidence: 0.9380565

00:08:59.850 --> 00:09:00.990 APDA Center

NOTE Confidence: 0.9907718

00:09:01.370 --> 00:09:02.670 for Advanced Research,

NOTE Confidence: 0.99081963

00:09:04.089 --> 00:09:05.529 which is is really,

NOTE Confidence: 0.99890584

00:09:06.089 --> 00:09:06.750 a very

NOTE Confidence: 0.9909544

00:09:07.370 --> 00:09:08.269 great honor.

NOTE Confidence: 0.62728816

00:09:09.449 --> 00:09:09.949 Yale

NOTE Confidence: 0.9983148

00:09:11.355 --> 00:09:12.095 was leading

NOTE Confidence: 0.99166226

00:09:12.395 --> 00:09:14.155 the path to bring the

NOTE Confidence: 0.99166226

00:09:14.155 --> 00:09:16.554 first disease modifying treatment for

NOTE Confidence: 0.99166226

00:09:16.554 --> 00:09:18.735 Alzheimer's disease to FDA approval,

NOTE Confidence: 0.99634826

00:09:20.395 --> 00:09:21.995 and has a very deep

NOTE Confidence: 0.99634826

00:09:21.995 --> 00:09:23.455 bench of genetics

NOTE Confidence: 0.76894635

00:09:24.230 --> 00:09:24.730 and,

NOTE Confidence: 0.893564

00:09:25.110 --> 00:09:26.089 medical genetics.

NOTE Confidence: 0.9902844

00:09:26.470 --> 00:09:28.569 So we are looking forward

NOTE Confidence: 0.9902844

00:09:28.790 --> 00:09:29.290 to

NOTE Confidence: 0.994065

00:09:29.910 --> 00:09:31.670 to work with with our

NOTE Confidence: 0.994065

00:09:31.670 --> 00:09:33.290 friends across the campus.

NOTE Confidence: 0.98412967

00:09:34.149 --> 00:09:35.690 And so with that,

NOTE Confidence: 0.9838769

00:09:36.198 --> 00:09:37.558 I'm looking forward to working

NOTE Confidence: 0.9838769

00:09:37.558 --> 00:09:38.918 with you to build a

NOTE Confidence: 0.9838769

00:09:38.918 --> 00:09:40.618 better future for our patient.