

WEBVTT

NOTE duration:"00:29:00"

NOTE recognizability:0.788

NOTE language:en-us

NOTE Confidence: 0.841151509090909

00:00:35.310 --> 00:00:37.212 Good morning and welcome to the

NOTE Confidence: 0.841151509090909

00:00:37.212 --> 00:00:38.870 Yale Liver Diamond Jubilee event.

NOTE Confidence: 0.841151509090909

00:00:38.870 --> 00:00:41.150 This session is being recorded. Thank you.

NOTE Confidence: 0.949974287

00:00:50.550 --> 00:00:52.017 Good morning everyone.

NOTE Confidence: 0.949974287

00:00:52.017 --> 00:00:55.440 I'd like to welcome you to our

NOTE Confidence: 0.949974287

00:00:55.440 --> 00:00:57.855 75th anniversary of the liver

NOTE Confidence: 0.949974287

00:00:57.855 --> 00:01:00.907 center and it's my pleasure to

NOTE Confidence: 0.949974287

00:01:00.907 --> 00:01:03.079 introduce Doctor James Boyer.

NOTE Confidence: 0.949974287

00:01:03.080 --> 00:01:05.684 Jim is the enzyme Professor of Medicine

NOTE Confidence: 0.949974287

00:01:05.684 --> 00:01:07.384 Emeritus, director of the Liver

NOTE Confidence: 0.949974287

00:01:07.384 --> 00:01:09.370 Center at Yale School of Medicine.

NOTE Confidence: 0.949974287

00:01:09.370 --> 00:01:12.366 And from 1982 to 1996 he directed

NOTE Confidence: 0.949974287

00:01:12.366 --> 00:01:14.207 the combined Digestive Disease

NOTE Confidence: 0.949974287

00:01:14.207 --> 00:01:17.087 section in the Republic of Medicine.
NOTE Confidence: 0.949974287

00:01:17.090 --> 00:01:19.050 So it's my pleasure to work on them
NOTE Confidence: 0.949974287

00:01:19.050 --> 00:01:21.264 today to for you to give this talk Jim,
NOTE Confidence: 0.949974287

00:01:21.270 --> 00:01:21.798 please go ahead.
NOTE Confidence: 0.895273555

00:01:41.430 --> 00:01:42.814 There we go. Can you hear me alright?
NOTE Confidence: 0.909451733333333

00:01:45.760 --> 00:01:49.804 Yes I can. Well, it's a pleasure,
NOTE Confidence: 0.909451733333333

00:01:49.804 --> 00:01:53.180 and indeed a considerable honor to be
NOTE Confidence: 0.909451733333333

00:01:53.180 --> 00:01:56.516 asked to lead off our celebration of the
NOTE Confidence: 0.909451733333333

00:01:56.516 --> 00:01:59.162 Jubilee for the liver program at Yale.
NOTE Confidence: 0.908537825

00:02:04.430 --> 00:02:06.450 This is what I'm going to talk to you about.
NOTE Confidence: 0.908537825

00:02:06.450 --> 00:02:07.930 I'm going to talk first,
NOTE Confidence: 0.908537825

00:02:07.930 --> 00:02:09.210 of course, about our founder,
NOTE Confidence: 0.908537825

00:02:09.210 --> 00:02:11.874 which is Gerald Klatskin and the
NOTE Confidence: 0.908537825

00:02:11.874 --> 00:02:15.234 era that he represented and how the
NOTE Confidence: 0.908537825

00:02:15.234 --> 00:02:18.042 liver unit became came into fruition.
NOTE Confidence: 0.908537825

00:02:18.042 --> 00:02:20.670 And I'll talk a little bit

NOTE Confidence: 0.908537825

00:02:20.761 --> 00:02:23.715 about his impact on the field of

NOTE Confidence: 0.908537825

00:02:23.715 --> 00:02:26.886 hepatology and and how some of our

NOTE Confidence: 0.908537825

00:02:26.886 --> 00:02:29.616 organizations like the ASLD have began.

NOTE Confidence: 0.908537825

00:02:29.620 --> 00:02:32.500 And then I'll switch to the buyer here.

NOTE Confidence: 0.908537825

00:02:32.500 --> 00:02:36.019 If you let me do that term and the

NOTE Confidence: 0.908537825

00:02:36.019 --> 00:02:39.148 founding of the NIH Yale Liver Center.

NOTE Confidence: 0.908537825

00:02:39.150 --> 00:02:41.194 And then I'm going to speak a

NOTE Confidence: 0.908537825

00:02:41.194 --> 00:02:43.590 little bit about the impact of our

NOTE Confidence: 0.908537825

00:02:43.590 --> 00:02:46.070 center on International hepatology,

NOTE Confidence: 0.908537825

00:02:46.070 --> 00:02:46.838 and conversely,

NOTE Confidence: 0.908537825

00:02:46.838 --> 00:02:49.142 the impact that our fellows who

NOTE Confidence: 0.908537825

00:02:49.142 --> 00:02:50.850 came from international areas

NOTE Confidence: 0.908537825

00:02:50.850 --> 00:02:53.015 had on the center itself.

NOTE Confidence: 0.908537825

00:02:53.020 --> 00:02:54.712 And then I'll conclude with a

NOTE Confidence: 0.908537825

00:02:54.712 --> 00:02:56.462 very brief perspective of over

NOTE Confidence: 0.908537825

00:02:56.462 --> 00:02:59.952 the 50 year of my career on the
NOTE Confidence: 0.908537825

00:02:59.952 --> 00:03:01.703 enormous scientific progress
NOTE Confidence: 0.908537825

00:03:01.703 --> 00:03:04.944 that has been made in this field.
NOTE Confidence: 0.790103344444444

00:03:07.320 --> 00:03:10.834 Well, this is the iconic picture of
NOTE Confidence: 0.790103344444444

00:03:10.834 --> 00:03:14.080 Gerald Klatskin there with his pipe and
NOTE Confidence: 0.790103344444444

00:03:14.080 --> 00:03:16.743 his microscope and neither of which
NOTE Confidence: 0.790103344444444

00:03:16.743 --> 00:03:20.108 he was very far away from his career.
NOTE Confidence: 0.790103344444444

00:03:20.110 --> 00:03:22.994 He came to Yale and actually in 1933.
NOTE Confidence: 0.790103344444444

00:03:22.994 --> 00:03:24.506 Hepatology, of course,
NOTE Confidence: 0.790103344444444

00:03:24.506 --> 00:03:28.209 at that time was not especially at all.
NOTE Confidence: 0.790103344444444

00:03:28.210 --> 00:03:30.526 And he finished his residency here.
NOTE Confidence: 0.790103344444444

00:03:30.530 --> 00:03:33.178 Even took a time off for a surgical
NOTE Confidence: 0.790103344444444

00:03:33.178 --> 00:03:35.434 residency up and in Rochester, NY.
NOTE Confidence: 0.790103344444444

00:03:35.434 --> 00:03:37.498 Came back was in private practice
NOTE Confidence: 0.790103344444444

00:03:37.498 --> 00:03:40.198 briefly and then on the faculty for a
NOTE Confidence: 0.790103344444444

00:03:40.198 --> 00:03:43.030 few years and then World War came along.

NOTE Confidence: 0.790103344444444
00:03:43.030 --> 00:03:45.700 And he ended up in India,
NOTE Confidence: 0.790103344444444
00:03:45.700 --> 00:03:48.490 in Calcutta and in the army.
NOTE Confidence: 0.790103344444444
00:03:48.490 --> 00:03:50.884 And there he came into contact
NOTE Confidence: 0.790103344444444
00:03:50.884 --> 00:03:53.250 with patients who had hepatitis
NOTE Confidence: 0.790103344444444
00:03:53.250 --> 00:03:55.280 patients with amebiasis human wrote
NOTE Confidence: 0.790103344444444
00:03:55.280 --> 00:03:57.586 a paper on emotion therapy.
NOTE Confidence: 0.790103344444444
00:03:57.586 --> 00:04:00.290 Hepatic antibiosis and most
NOTE Confidence: 0.790103344444444
00:04:00.290 --> 00:04:04.241 importantly in his fourth year in
NOTE Confidence: 0.790103344444444
00:04:04.241 --> 00:04:07.503 the army he was stationed in Iowa.
NOTE Confidence: 0.790103344444444
00:04:07.510 --> 00:04:11.278 And Cecil Watson was a consultant
NOTE Confidence: 0.790103344444444
00:04:11.278 --> 00:04:15.190 from University of Minnesota where he
NOTE Confidence: 0.790103344444444
00:04:15.190 --> 00:04:17.808 came once a month and he introduced
NOTE Confidence: 0.790103344444444
00:04:17.808 --> 00:04:20.668 Klatzkin to what he called the Hypnogram
NOTE Confidence: 0.790103344444444
00:04:20.670 --> 00:04:23.750 or a battery of liver function test.
NOTE Confidence: 0.790103344444444
00:04:23.750 --> 00:04:25.808 And when clients can realize that
NOTE Confidence: 0.790103344444444

00:04:25.808 --> 00:04:27.730 he could quantify liver disease,
NOTE Confidence: 0.7901033444444444

00:04:27.730 --> 00:04:30.460 he got hooked and he returned
NOTE Confidence: 0.7901033444444444

00:04:30.460 --> 00:04:32.250 to Yale in 1946.
NOTE Confidence: 0.7901033444444444

00:04:32.250 --> 00:04:34.770 And if you do the calculations,
NOTE Confidence: 0.7901033444444444

00:04:34.770 --> 00:04:39.362 that was 75 years ago and hence the.
NOTE Confidence: 0.7901033444444444

00:04:39.362 --> 00:04:43.858 Jubilee today, so delivery unit.
NOTE Confidence: 0.7901033444444444

00:04:43.860 --> 00:04:49.170 Markets beginning at that time. And.
NOTE Confidence: 0.7901033444444444

00:04:49.170 --> 00:04:53.594 He was ostracized by the metabolism group.
NOTE Confidence: 0.7901033444444444

00:04:53.600 --> 00:04:54.948 Phillip John Phillips threw
NOTE Confidence: 0.7901033444444444

00:04:54.948 --> 00:04:56.633 him off the 2nd floor.
NOTE Confidence: 0.7901033444444444

00:04:56.640 --> 00:04:58.899 I don't know the 1st floor of the LMP.
NOTE Confidence: 0.7901033444444444

00:04:58.900 --> 00:05:01.300 He set up this laboratory and this is
NOTE Confidence: 0.7901033444444444

00:05:01.300 --> 00:05:03.658 the sign that was on the laboratory
NOTE Confidence: 0.7901033444444444

00:05:03.658 --> 00:05:06.760 door and the test that he ran over Billy
NOTE Confidence: 0.7901033444444444

00:05:06.760 --> 00:05:09.138 Ruben Alfalfa protein elective races.
NOTE Confidence: 0.7901033444444444

00:05:09.140 --> 00:05:13.598 Final turbidity and kept flock flocculation.

NOTE Confidence: 0.790103344444444
00:05:13.600 --> 00:05:16.456 And nobody knew how to interpret those tests.
NOTE Confidence: 0.790103344444444
00:05:16.460 --> 00:05:19.848 So he received a lot of consults
NOTE Confidence: 0.790103344444444
00:05:19.848 --> 00:05:23.876 and that's how the program survived
NOTE Confidence: 0.790103344444444
00:05:23.876 --> 00:05:26.860 financially and he was off and the
NOTE Confidence: 0.790103344444444
00:05:26.860 --> 00:05:29.879 unit was off and and and running.
NOTE Confidence: 0.790103344444444
00:05:29.880 --> 00:05:33.024 At one time he had six or seven
NOTE Confidence: 0.790103344444444
00:05:33.024 --> 00:05:35.269 technicians in this laboratory.
NOTE Confidence: 0.790103344444444
00:05:35.270 --> 00:05:37.552 Now Glasgow was the first to do
NOTE Confidence: 0.790103344444444
00:05:37.552 --> 00:05:38.982 a liver biopsy at Yale.
NOTE Confidence: 0.790103344444444
00:05:38.982 --> 00:05:40.790 He was not the first in the country.
NOTE Confidence: 0.790103344444444
00:05:40.790 --> 00:05:42.869 I think the first one was done
NOTE Confidence: 0.790103344444444
00:05:42.869 --> 00:05:44.620 at Mount Sinai in New York.
NOTE Confidence: 0.790103344444444
00:05:44.620 --> 00:05:48.460 But he did one in October of 47.
NOTE Confidence: 0.790103344444444
00:05:48.460 --> 00:05:49.800 First two failed, apparently.
NOTE Confidence: 0.790103344444444
00:05:49.800 --> 00:05:52.496 And then it was a matter of how
NOTE Confidence: 0.790103344444444

00:05:52.496 --> 00:05:53.736 to read these biopsies,
NOTE Confidence: 0.7901033444444444

00:05:53.740 --> 00:05:55.721 and he sent them over to pathology
NOTE Confidence: 0.7901033444444444

00:05:55.721 --> 00:05:57.500 to be to be looked at.
NOTE Confidence: 0.7901033444444444

00:05:57.500 --> 00:06:01.460 To these be processed and.
NOTE Confidence: 0.7901033444444444

00:06:01.460 --> 00:06:05.078 It happened to go up to to the Newington
NOTE Confidence: 0.7901033444444444

00:06:05.078 --> 00:06:09.000 VA where Ray Yesner pathologist was.
NOTE Confidence: 0.7901033444444444

00:06:09.000 --> 00:06:12.080 He went there weekly as a consultant
NOTE Confidence: 0.7901033444444444

00:06:12.080 --> 00:06:14.570 to the VA and Ray has there is
NOTE Confidence: 0.7901033444444444

00:06:14.570 --> 00:06:16.049 one who really taught class going
NOTE Confidence: 0.7901033444444444

00:06:16.049 --> 00:06:17.555 to have to read biopsy slides.
NOTE Confidence: 0.7901033444444444

00:06:17.560 --> 00:06:21.144 Now his hobby that's hobby was photography.
NOTE Confidence: 0.7901033444444444

00:06:21.150 --> 00:06:23.868 And so he started photographing them.
NOTE Confidence: 0.7901033444444444

00:06:23.870 --> 00:06:26.030 And he hired Hazel Hubble away
NOTE Confidence: 0.7901033444444444

00:06:26.030 --> 00:06:28.082 from Saint Rayfield, where she,
NOTE Confidence: 0.7901033444444444

00:06:28.082 --> 00:06:30.998 although she had originally been a
NOTE Confidence: 0.7901033444444444

00:06:30.998 --> 00:06:34.320 technician for for Doctor Green at at Yale.

NOTE Confidence: 0.790103344444444
00:06:34.320 --> 00:06:34.910 And.
NOTE Confidence: 0.790103344444444
00:06:34.910 --> 00:06:36.680 Over his career.
NOTE Confidence: 0.790103344444444
00:06:36.680 --> 00:06:40.220 He assembled around 50,000 kodachromes from
NOTE Confidence: 0.790103344444444
00:06:40.317 --> 00:06:43.857 approximately 10,000 that are biopsies.
NOTE Confidence: 0.790103344444444
00:06:43.860 --> 00:06:46.245 He recorded all this clinical
NOTE Confidence: 0.790103344444444
00:06:46.245 --> 00:06:48.630 and histological data on a
NOTE Confidence: 0.849082668461539
00:06:48.724 --> 00:06:50.260 punch card system.
NOTE Confidence: 0.849082668461539
00:06:50.260 --> 00:06:53.068 From me this is Hazel Howell,
NOTE Confidence: 0.849082668461539
00:06:53.070 --> 00:06:54.822 his biopsy technician.
NOTE Confidence: 0.849082668461539
00:06:54.822 --> 00:06:58.326 She was every bit as fastidious
NOTE Confidence: 0.849082668461539
00:06:58.326 --> 00:07:00.794 and perfectionist as Klatskin was.
NOTE Confidence: 0.849082668461539
00:07:00.794 --> 00:07:03.620 He was his match for that.
NOTE Confidence: 0.849082668461539
00:07:03.620 --> 00:07:06.092 Now the class can biopsies slides
NOTE Confidence: 0.849082668461539
00:07:06.092 --> 00:07:08.068 and code acronyms have been
NOTE Confidence: 0.849082668461539
00:07:08.068 --> 00:07:09.913 hooked up until recently stored
NOTE Confidence: 0.849082668461539

00:07:09.913 --> 00:07:12.529 in a in a klatskin library.
NOTE Confidence: 0.849082668461539

00:07:12.530 --> 00:07:14.070 Here's a picture of it.
NOTE Confidence: 0.849082668461539

00:07:14.070 --> 00:07:16.401 Here's another with the code of Chromes
NOTE Confidence: 0.849082668461539

00:07:16.401 --> 00:07:18.697 are every bit as beautiful today as
NOTE Confidence: 0.849082668461539

00:07:18.697 --> 00:07:21.300 they as they were when they were taken,
NOTE Confidence: 0.849082668461539

00:07:21.300 --> 00:07:22.824 and the slides here.
NOTE Confidence: 0.849082668461539

00:07:22.824 --> 00:07:26.378 And then this is a Mcbee as not index card.
NOTE Confidence: 0.849082668461539

00:07:26.378 --> 00:07:27.963 It's not one of his,
NOTE Confidence: 0.849082668461539

00:07:27.970 --> 00:07:29.410 I took it off the web,
NOTE Confidence: 0.849082668461539

00:07:29.410 --> 00:07:31.188 he would have this filled out all
NOTE Confidence: 0.849082668461539

00:07:31.188 --> 00:07:32.962 the way around here with liver
NOTE Confidence: 0.849082668461539

00:07:32.962 --> 00:07:34.604 function and and liver biopsy.
NOTE Confidence: 0.849082668461539

00:07:34.604 --> 00:07:36.955 Get to you and every Saturday he
NOTE Confidence: 0.849082668461539

00:07:36.955 --> 00:07:39.041 would come into the office and sit
NOTE Confidence: 0.849082668461539

00:07:39.041 --> 00:07:41.189 down and punch the cards where
NOTE Confidence: 0.849082668461539

00:07:41.189 --> 00:07:43.039 the for individual patients and

NOTE Confidence: 0.849082668461539
00:07:43.039 --> 00:07:45.030 the secretary in the next morning
NOTE Confidence: 0.849082668461539
00:07:45.030 --> 00:07:47.338 with type it up and there would
NOTE Confidence: 0.849082668461539
00:07:47.338 --> 00:07:49.508 be 3 copies and they were stored
NOTE Confidence: 0.849082668461539
00:07:49.508 --> 00:07:51.994 in these cases here one copy for
NOTE Confidence: 0.849082668461539
00:07:51.994 --> 00:07:53.394 the patient's name one.
NOTE Confidence: 0.849082668461539
00:07:53.400 --> 00:07:57.000 The number and one for the for the disease.
NOTE Confidence: 0.849082668461539
00:07:57.000 --> 00:07:57.824 Now, unfortunately,
NOTE Confidence: 0.849082668461539
00:07:57.824 --> 00:08:00.708 the library had to be taken down
NOTE Confidence: 0.849082668461539
00:08:00.708 --> 00:08:03.408 for one of office space and is
NOTE Confidence: 0.849082668461539
00:08:03.408 --> 00:08:05.400 now residing in storage in the
NOTE Confidence: 0.849082668461539
00:08:05.400 --> 00:08:07.986 library waiting for its next home.
NOTE Confidence: 0.747430161578947
00:08:10.320 --> 00:08:12.372 Our classroom was proudest of the
NOTE Confidence: 0.747430161578947
00:08:12.372 --> 00:08:14.332 fellows that he trained many of
NOTE Confidence: 0.747430161578947
00:08:14.332 --> 00:08:16.194 these fellows as a list of them.
NOTE Confidence: 0.747430161578947
00:08:16.200 --> 00:08:19.692 47 came from other institutions who
NOTE Confidence: 0.747430161578947

00:08:19.692 --> 00:08:23.614 wanted to train somebody to to be to
NOTE Confidence: 0.747430161578947

00:08:23.614 --> 00:08:27.592 bring liver information to their program.
NOTE Confidence: 0.747430161578947

00:08:27.592 --> 00:08:32.390 And. Several of them have Fallon myself.
NOTE Confidence: 0.747430161578947

00:08:32.390 --> 00:08:37.134 Willis Maddrey and Joseph Bloomer became
NOTE Confidence: 0.747430161578947

00:08:37.134 --> 00:08:40.364 presidents of our National Association,
NOTE Confidence: 0.747430161578947

00:08:40.370 --> 00:08:46.480 so this is a a major pride of of his.
NOTE Confidence: 0.747430161578947

00:08:46.480 --> 00:08:51.527 There he is, lecturing in Parkers Hall.
NOTE Confidence: 0.747430161578947

00:08:51.530 --> 00:08:52.950 Early on in his career,
NOTE Confidence: 0.747430161578947

00:08:52.950 --> 00:08:56.082 he was dubbed by John Phillips as a
NOTE Confidence: 0.747430161578947

00:08:56.082 --> 00:08:58.324 Doctor of rare diseases because if
NOTE Confidence: 0.747430161578947

00:08:58.324 --> 00:09:00.460 there was an unusual case in the house,
NOTE Confidence: 0.747430161578947

00:09:00.460 --> 00:09:02.772 he was the one that read up and
NOTE Confidence: 0.747430161578947

00:09:02.772 --> 00:09:04.805 exhausted all the literature and
NOTE Confidence: 0.747430161578947

00:09:04.805 --> 00:09:06.188 became almost overnight.
NOTE Confidence: 0.747430161578947

00:09:06.190 --> 00:09:10.267 The expert in the field and in that case,
NOTE Confidence: 0.747430161578947

00:09:10.270 --> 00:09:13.756 and he often presented a grand rounds.

NOTE Confidence: 0.747430161578947
00:09:13.760 --> 00:09:16.232 This is the list of some of his
NOTE Confidence: 0.747430161578947
00:09:16.232 --> 00:09:18.170 contributions to hepatology that he
NOTE Confidence: 0.747430161578947
00:09:18.170 --> 00:09:20.558 himself ordered his most important
NOTE Confidence: 0.747430161578947
00:09:20.558 --> 00:09:22.034 finding he thought,
NOTE Confidence: 0.747430161578947
00:09:22.040 --> 00:09:25.106 was the association of viral hepatitis and
NOTE Confidence: 0.747430161578947
00:09:25.106 --> 00:09:27.709 Australia antigen with chronic hepatitis.
NOTE Confidence: 0.747430161578947
00:09:27.710 --> 00:09:29.698 Discovery that protoporphyrin was
NOTE Confidence: 0.747430161578947
00:09:29.698 --> 00:09:32.766 by refrigerant and to be make
NOTE Confidence: 0.747430161578947
00:09:32.766 --> 00:09:35.646 the diagnosis and protocol furia
NOTE Confidence: 0.747430161578947
00:09:35.646 --> 00:09:38.324 with Cholestasis and the clinical
NOTE Confidence: 0.747430161578947
00:09:38.324 --> 00:09:39.848 significance paddock granulomas.
NOTE Confidence: 0.747430161578947
00:09:39.850 --> 00:09:42.232 He probably has the world's largest
NOTE Confidence: 0.747430161578947
00:09:42.232 --> 00:09:44.629 collection of granulomas in liver biopsies
NOTE Confidence: 0.747430161578947
00:09:44.629 --> 00:09:47.226 but never really published much on it.
NOTE Confidence: 0.747430161578947
00:09:47.230 --> 00:09:50.542 He championed the Association of Paddock
NOTE Confidence: 0.747430161578947

00:09:50.542 --> 00:09:52.750 adenomas with oral contraceptives.
NOTE Confidence: 0.747430161578947

00:09:52.750 --> 00:09:54.394 Published together with myself
NOTE Confidence: 0.747430161578947

00:09:54.394 --> 00:09:56.038 on prognostic significance of
NOTE Confidence: 0.747430161578947

00:09:56.038 --> 00:09:58.180 bridging the padding in the process
NOTE Confidence: 0.747430161578947

00:09:58.180 --> 00:10:00.070 in viral hepatitis is a predictor
NOTE Confidence: 0.747430161578947

00:10:00.132 --> 00:10:01.708 of progression to cirrhosis,
NOTE Confidence: 0.747430161578947

00:10:01.710 --> 00:10:03.822 and the new journal.
NOTE Confidence: 0.747430161578947

00:10:03.822 --> 00:10:06.520 He showed that that alcohol,
NOTE Confidence: 0.747430161578947

00:10:06.520 --> 00:10:08.740 when it was drawn.
NOTE Confidence: 0.747430161578947

00:10:08.740 --> 00:10:10.940 Affected the Natural History of
NOTE Confidence: 0.747430161578947

00:10:10.940 --> 00:10:13.140 alcoholic liver disease and studies
NOTE Confidence: 0.747430161578947

00:10:13.213 --> 00:10:14.659 that he did at the VA,
NOTE Confidence: 0.747430161578947

00:10:14.660 --> 00:10:17.653 and he was his his paper on halothane
NOTE Confidence: 0.747430161578947

00:10:17.653 --> 00:10:20.611 hepatitis was the hallmark of the
NOTE Confidence: 0.747430161578947

00:10:20.611 --> 00:10:23.509 Association of that of that disorder.
NOTE Confidence: 0.75436587125

00:10:25.810 --> 00:10:28.238 Other contributions and honors

NOTE Confidence: 0.75436587125

00:10:28.238 --> 00:10:30.666 he the bifurcation tumor,

NOTE Confidence: 0.75436587125

00:10:30.670 --> 00:10:33.288 the claims of carcinoma bears,

NOTE Confidence: 0.75436587125

00:10:33.288 --> 00:10:34.560 his name. He didn't.

NOTE Confidence: 0.75436587125

00:10:34.560 --> 00:10:36.010 He didn't initially describe it,

NOTE Confidence: 0.75436587125

00:10:36.010 --> 00:10:38.824 but he wrote a Seminole publication

NOTE Confidence: 0.75436587125

00:10:38.824 --> 00:10:41.510 in American Journal of Medicine,

NOTE Confidence: 0.75436587125

00:10:41.510 --> 00:10:43.585 and since that has been

NOTE Confidence: 0.75436587125

00:10:43.585 --> 00:10:45.245 called the klatskin tumor,

NOTE Confidence: 0.75436587125

00:10:45.250 --> 00:10:47.554 he demonstrated the Association

NOTE Confidence: 0.75436587125

00:10:47.554 --> 00:10:50.434 of Fever and alcoholic hepatitis.

NOTE Confidence: 0.75436587125

00:10:50.440 --> 00:10:52.792 He designed a special liver biopsy

NOTE Confidence: 0.75436587125

00:10:52.792 --> 00:10:55.599 needle known as the Klatskin Needle,

NOTE Confidence: 0.75436587125

00:10:55.600 --> 00:10:57.784 Becton, Dickinson Pay.

NOTE Confidence: 0.75436587125

00:10:57.784 --> 00:11:01.170 It still available and he is one

NOTE Confidence: 0.75436587125

00:11:01.170 --> 00:11:02.970 of several founders of the American

NOTE Confidence: 0.75436587125

00:11:03.035 --> 00:11:05.604 Association of the Study of Liver Disease,
NOTE Confidence: 0.75436587125

00:11:05.610 --> 00:11:08.972 and this appeared in 1950 in the
NOTE Confidence: 0.75436587125

00:11:08.972 --> 00:11:10.436 Hecktown Institute in Chicago.
NOTE Confidence: 0.75436587125

00:11:10.440 --> 00:11:11.739 In the library,
NOTE Confidence: 0.75436587125

00:11:11.739 --> 00:11:13.904 we're actually in the office
NOTE Confidence: 0.75436587125

00:11:13.904 --> 00:11:15.760 initially of Hans Popper,
NOTE Confidence: 0.75436587125

00:11:15.760 --> 00:11:17.632 who is about usually regarded as
NOTE Confidence: 0.75436587125

00:11:17.632 --> 00:11:19.465 the father of modern hepatology.
NOTE Confidence: 0.75436587125

00:11:19.465 --> 00:11:22.390 And the interested people would
NOTE Confidence: 0.75436587125

00:11:22.390 --> 00:11:25.450 bring a puzzling case with a.
NOTE Confidence: 0.75436587125

00:11:25.450 --> 00:11:28.194 With a biopsy there to be looked
NOTE Confidence: 0.75436587125

00:11:28.194 --> 00:11:30.377 at proper would presented and
NOTE Confidence: 0.75436587125

00:11:30.377 --> 00:11:32.225 give the results in.
NOTE Confidence: 0.77183034

00:11:34.290 --> 00:11:36.200 Classroom was the first recipient
NOTE Confidence: 0.77183034

00:11:36.200 --> 00:11:38.572 of a T32 training grant.
NOTE Confidence: 0.77183034

00:11:38.572 --> 00:11:40.630 Back in 1959 and Hepatology

NOTE Confidence: 0.77183034

00:11:40.630 --> 00:11:43.431 and I think one of the first in

NOTE Confidence: 0.77183034

00:11:43.431 --> 00:11:45.496 internal medicine in the country.

NOTE Confidence: 0.77183034

00:11:45.500 --> 00:11:48.218 That means that we have had at except for

NOTE Confidence: 0.77183034

00:11:48.218 --> 00:11:51.200 a lapse when two years when he retired.

NOTE Confidence: 0.77183034

00:11:51.200 --> 00:11:54.973 Yale has had a T32 training grant

NOTE Confidence: 0.77183034

00:11:54.973 --> 00:11:57.610 hepatology for over 60 years.

NOTE Confidence: 0.77183034

00:11:57.610 --> 00:12:03.190 And although he was not a member of the HGA.

NOTE Confidence: 0.77183034

00:12:03.190 --> 00:12:05.068 He received the Freedom of medal,

NOTE Confidence: 0.77183034

00:12:05.070 --> 00:12:08.940 their highest honor. Sorry.

NOTE Confidence: 0.683816768

00:12:11.450 --> 00:12:14.490 From the IGA in 1983,

NOTE Confidence: 0.683816768

00:12:14.490 --> 00:12:17.448 here is John Ferrar presenting the

NOTE Confidence: 0.683816768

00:12:17.448 --> 00:12:20.106 medal to Klatskin and Washington DC,

NOTE Confidence: 0.683816768

00:12:20.106 --> 00:12:22.066 where the meeting was held.

NOTE Confidence: 0.683816768

00:12:22.070 --> 00:12:23.450 That is my back.

NOTE Confidence: 0.683816768

00:12:23.450 --> 00:12:25.520 I presented the asked me to

NOTE Confidence: 0.683816768

00:12:25.606 --> 00:12:27.566 present to you award two.
NOTE Confidence: 0.683816768

00:12:27.570 --> 00:12:29.682 In those days the freedom will
NOTE Confidence: 0.683816768

00:12:29.682 --> 00:12:31.296 medal was presented alive.
NOTE Confidence: 0.683816768

00:12:31.296 --> 00:12:35.744 And the life wasn't all struggles and work.
NOTE Confidence: 0.683816768

00:12:35.750 --> 00:12:38.686 This is a party of the liver group.
NOTE Confidence: 0.683816768

00:12:38.690 --> 00:12:41.102 I think it may have been at the time
NOTE Confidence: 0.683816768

00:12:41.102 --> 00:12:44.709 of Gladstone's retired retirement.
NOTE Confidence: 0.683816768

00:12:44.710 --> 00:12:46.702 You may see a young Roberta
NOTE Confidence: 0.683816768

00:12:46.702 --> 00:12:48.689 Grossman and I eat it here.
NOTE Confidence: 0.683816768

00:12:48.690 --> 00:12:53.256 My wife Phoebe and other memorables.
NOTE Confidence: 0.683816768

00:12:53.260 --> 00:12:55.930 I want to say a few words about the ASLD.
NOTE Confidence: 0.683816768

00:12:55.930 --> 00:12:57.757 It was founded as I mentioned in
NOTE Confidence: 0.683816768

00:12:57.760 --> 00:13:00.826 1950 and Pepto Institute in Chicago.
NOTE Confidence: 0.683816768

00:13:00.830 --> 00:13:02.958 When I was a fellow in 1969,
NOTE Confidence: 0.683816768

00:13:02.958 --> 00:13:04.948 that was my first meeting.
NOTE Confidence: 0.683816768

00:13:04.950 --> 00:13:08.166 The membership was only around 2:00 or 300.

NOTE Confidence: 0.683816768

00:13:08.170 --> 00:13:11.665 Held in the old chair in Chicago and

NOTE Confidence: 0.683816768

00:13:11.665 --> 00:13:17.090 and and the chairs were all movable.

NOTE Confidence: 0.683816768

00:13:17.090 --> 00:13:20.044 The SLD gave rise to the American

NOTE Confidence: 0.683816768

00:13:20.044 --> 00:13:22.780 Liver Foundation in 1976 and it

NOTE Confidence: 0.683816768

00:13:22.780 --> 00:13:25.230 found it the general hepatology,

NOTE Confidence: 0.683816768

00:13:25.230 --> 00:13:26.995 which is the primary journal

NOTE Confidence: 0.683816768

00:13:26.995 --> 00:13:28.882 for our society in 1980.

NOTE Confidence: 0.683816768

00:13:28.882 --> 00:13:31.242 Today the membership has grown

NOTE Confidence: 0.683816768

00:13:31.242 --> 00:13:34.458 from 2 or 300 to over 6000.

NOTE Confidence: 0.683816768

00:13:34.460 --> 00:13:37.215 And there are 2500 approximately

NOTE Confidence: 0.683816768

00:13:37.215 --> 00:13:38.868 scientific abstracts accepted

NOTE Confidence: 0.683816768

00:13:38.868 --> 00:13:42.300 for the annual meeting from US

NOTE Confidence: 0.683816768

00:13:42.300 --> 00:13:43.986 and international programs.

NOTE Confidence: 0.683816768

00:13:43.990 --> 00:13:45.162 An incredible growth over

NOTE Confidence: 0.683816768

00:13:45.162 --> 00:13:46.334 this period of time.

NOTE Confidence: 0.784096632

00:13:48.960 --> 00:13:53.428 Let me move now to all the board.
NOTE Confidence: 0.784096632

00:13:53.430 --> 00:13:57.538 From 1978 to 2009.
NOTE Confidence: 0.784096632

00:13:57.540 --> 00:14:04.460 Just a brief summary of my my training after.
NOTE Confidence: 0.784096632

00:14:04.460 --> 00:14:06.750 Graduating from Hopkins and internship
NOTE Confidence: 0.784096632

00:14:06.750 --> 00:14:09.040 initially at New York Hospital,
NOTE Confidence: 0.784096632

00:14:09.040 --> 00:14:11.692 I was in a public health
NOTE Confidence: 0.784096632

00:14:11.692 --> 00:14:13.018 service and interestingly,
NOTE Confidence: 0.784096632

00:14:13.020 --> 00:14:16.148 also stationed in Calcutta and that is where
NOTE Confidence: 0.784096632

00:14:16.148 --> 00:14:19.457 I also got interested in liver disease,
NOTE Confidence: 0.784096632

00:14:19.460 --> 00:14:21.098 studying patients with
NOTE Confidence: 0.784096632

00:14:21.098 --> 00:14:22.736 idiopathic portal hypertension,
NOTE Confidence: 0.784096632

00:14:22.740 --> 00:14:26.156 and therefore I wanted to come to Yale
NOTE Confidence: 0.784096632

00:14:26.156 --> 00:14:28.879 training in the field and so at that
NOTE Confidence: 0.784096632

00:14:28.879 --> 00:14:31.940 time I joined the faculty briefly until
NOTE Confidence: 0.784096632

00:14:31.940 --> 00:14:35.204 72 and spent six years then in Chicago.
NOTE Confidence: 0.784096632

00:14:35.210 --> 00:14:38.272 Have a good it back in 1978 to

NOTE Confidence: 0.784096632

00:14:38.272 --> 00:14:42.690 reorganize the liver and GI programs.

NOTE Confidence: 0.784096632

00:14:42.690 --> 00:14:45.204 This is a sound on paper

NOTE Confidence: 0.784096632

00:14:45.204 --> 00:14:48.249 from my work in India which.

NOTE Confidence: 0.784096632

00:14:48.250 --> 00:14:51.110 Initial recognition.

NOTE Confidence: 0.784096632

00:14:51.110 --> 00:14:53.618 And instead of following that field,

NOTE Confidence: 0.784096632

00:14:53.620 --> 00:14:56.032 though, as the verdict,

NOTE Confidence: 0.784096632

00:14:56.032 --> 00:14:57.238 Grossman did.

NOTE Confidence: 0.784096632

00:14:57.240 --> 00:14:59.742 I wanted when I was a fellow to have

NOTE Confidence: 0.784096632

00:14:59.742 --> 00:15:02.515 a little basic science training and

NOTE Confidence: 0.784096632

00:15:02.515 --> 00:15:04.580 I set up an isolated perfused liver

NOTE Confidence: 0.784096632

00:15:04.580 --> 00:15:06.838 with the help of Doctor Robert Shy,

NOTE Confidence: 0.784096632

00:15:06.840 --> 00:15:08.821 who was an associate of flats skins

NOTE Confidence: 0.784096632

00:15:08.821 --> 00:15:10.859 who going to study lipoproteins,

NOTE Confidence: 0.784096632

00:15:10.860 --> 00:15:13.308 but when I saw this perfused

NOTE Confidence: 0.784096632

00:15:13.308 --> 00:15:15.206 liver making bile yellow bile,

NOTE Confidence: 0.784096632

00:15:15.206 --> 00:15:16.871 I said my goodness around
NOTE Confidence: 0.784096632

00:15:16.871 --> 00:15:18.919 the world is that happening?
NOTE Confidence: 0.784096632

00:15:18.920 --> 00:15:20.901 And to find that answer to that
NOTE Confidence: 0.784096632

00:15:20.901 --> 00:15:22.700 which I still work on today,
NOTE Confidence: 0.784096632

00:15:22.700 --> 00:15:24.780 became a became my passion.
NOTE Confidence: 0.888474045714286

00:15:27.180 --> 00:15:29.679 Hey Mark, landmark paper from our group,
NOTE Confidence: 0.888474045714286

00:15:29.680 --> 00:15:31.430 which the localization of the
NOTE Confidence: 0.888474045714286

00:15:31.430 --> 00:15:33.180 sodium pump to the basolateral
NOTE Confidence: 0.888474045714286

00:15:33.243 --> 00:15:34.819 membrane of the hepatocyte.
NOTE Confidence: 0.888474045714286

00:15:34.820 --> 00:15:36.409 It's not here at the apricot panel.
NOTE Confidence: 0.888474045714286

00:15:36.410 --> 00:15:37.326 Acular membrane.
NOTE Confidence: 0.888474045714286

00:15:37.326 --> 00:15:40.532 And that'll allow the for us to
NOTE Confidence: 0.888474045714286

00:15:40.532 --> 00:15:43.573 develop the concept of the parasite
NOTE Confidence: 0.888474045714286

00:15:43.573 --> 00:15:46.068 as a polarized epithelium similar
NOTE Confidence: 0.888474045714286

00:15:46.156 --> 00:15:48.072 to other classical epithelia
NOTE Confidence: 0.888474045714286

00:15:48.072 --> 00:15:51.166 where the sodium pump was on the

NOTE Confidence: 0.888474045714286
00:15:51.166 --> 00:15:53.330 basolateral side and the sodium
NOTE Confidence: 0.888474045714286
00:15:53.330 --> 00:15:55.688 gradient could be coupled with anions
NOTE Confidence: 0.888474045714286
00:15:55.688 --> 00:15:58.004 like Mino acids and bile acids,
NOTE Confidence: 0.888474045714286
00:15:58.010 --> 00:16:01.538 particular to drive them into the pathotype.
NOTE Confidence: 0.888474045714286
00:16:01.540 --> 00:16:03.716 Sodium pump left the
NOTE Confidence: 0.888474045714286
00:16:03.716 --> 00:16:05.042 internal potential negative,
NOTE Confidence: 0.888474045714286
00:16:05.042 --> 00:16:06.997 and we originally thought that
NOTE Confidence: 0.888474045714286
00:16:06.997 --> 00:16:09.055 bile acids in other mannheims
NOTE Confidence: 0.888474045714286
00:16:09.055 --> 00:16:11.440 were driven into the canaliculus
NOTE Confidence: 0.888474045714286
00:16:11.440 --> 00:16:14.040 by the electrical potential and
NOTE Confidence: 0.888474045714286
00:16:14.040 --> 00:16:17.080 we were dead wrong about that.
NOTE Confidence: 0.888474045714286
00:16:17.080 --> 00:16:22.246 But I was invited to give a paper
NOTE Confidence: 0.888474045714286
00:16:22.246 --> 00:16:24.976 review and the physiological reviews,
NOTE Confidence: 0.888474045714286
00:16:24.980 --> 00:16:27.482 and I think this really launched
NOTE Confidence: 0.888474045714286
00:16:27.482 --> 00:16:29.000 my career in 1980.
NOTE Confidence: 0.882543598909091

00:16:32.870 --> 00:16:35.376 Now, as I said earlier that digestive
NOTE Confidence: 0.882543598909091

00:16:35.376 --> 00:16:37.380 disease programs needed to be reorganized
NOTE Confidence: 0.882543598909091

00:16:37.380 --> 00:16:39.750 and that was one of the reasons I was
NOTE Confidence: 0.882543598909091

00:16:39.750 --> 00:16:43.630 quoted back to Yale at the time I came back,
NOTE Confidence: 0.882543598909091

00:16:43.630 --> 00:16:45.430 there were three different programs.
NOTE Confidence: 0.882543598909091

00:16:45.430 --> 00:16:47.644 There was overturned at Yale and
NOTE Confidence: 0.882543598909091

00:16:47.644 --> 00:16:49.850 the Klatskin wanted the DA by how,
NOTE Confidence: 0.882543598909091

00:16:49.850 --> 00:16:53.147 led by Harold Kahn and a combined
NOTE Confidence: 0.882543598909091

00:16:53.147 --> 00:16:57.190 GI program directed by Howard Spiro.
NOTE Confidence: 0.882543598909091

00:16:57.190 --> 00:16:58.810 A year after I got back,
NOTE Confidence: 0.882543598909091

00:16:58.810 --> 00:17:01.042 we renewed the pathology training grant
NOTE Confidence: 0.882543598909091

00:17:01.042 --> 00:17:03.270 and it's been running ever since.
NOTE Confidence: 0.882543598909091

00:17:03.270 --> 00:17:07.169 And now under my maiden since direction.
NOTE Confidence: 0.882543598909091

00:17:07.170 --> 00:17:10.170 The Howard Spyros program,
NOTE Confidence: 0.882543598909091

00:17:10.170 --> 00:17:14.146 then in 1984, was combined into a
NOTE Confidence: 0.882543598909091

00:17:14.146 --> 00:17:16.890 division of digestive diseases.

NOTE Confidence: 0.882543598909091
00:17:16.890 --> 00:17:20.130 As for domains today.
NOTE Confidence: 0.882543598909091
00:17:20.130 --> 00:17:24.970 Then in 1984, the Liver Center was awarded.
NOTE Confidence: 0.882543598909091
00:17:24.970 --> 00:17:27.738 We had a planning grant that we submitted.
NOTE Confidence: 0.882543598909091
00:17:27.740 --> 00:17:29.994 And that was and there would be
NOTE Confidence: 0.882543598909091
00:17:29.994 --> 00:17:31.371 rewarded itself was submitted
NOTE Confidence: 0.882543598909091
00:17:31.371 --> 00:17:33.429 on a day very similar today,
NOTE Confidence: 0.882543598909091
00:17:33.430 --> 00:17:35.404 here in New Haven it was snowing.
NOTE Confidence: 0.882543598909091
00:17:35.410 --> 00:17:38.227 I had to shovel out my driveway
NOTE Confidence: 0.882543598909091
00:17:38.227 --> 00:17:42.282 to get to get in and and the
NOTE Confidence: 0.882543598909091
00:17:42.282 --> 00:17:45.525 result is positive and we are now,
NOTE Confidence: 0.882543598909091
00:17:45.525 --> 00:17:48.213 I think in our last 36 a year
NOTE Confidence: 0.882543598909091
00:17:48.213 --> 00:17:49.652 of of this award.
NOTE Confidence: 0.882543598909091
00:17:49.652 --> 00:17:51.522 Initially we had six different
NOTE Confidence: 0.882543598909091
00:17:51.522 --> 00:17:53.660 cores in the library center.
NOTE Confidence: 0.882543598909091
00:17:53.660 --> 00:17:57.240 These were these were.
NOTE Confidence: 0.882543598909091

00:17:57.240 --> 00:17:59.520 Core Patricide isolation corps
NOTE Confidence: 0.882543598909091

00:17:59.520 --> 00:18:02.370 liver perfusion corps liver plasma
NOTE Confidence: 0.882543598909091

00:18:02.370 --> 00:18:04.476 membrane isolation morphology core,
NOTE Confidence: 0.882543598909091

00:18:04.476 --> 00:18:07.036 which is entirely electron microscopy
NOTE Confidence: 0.882543598909091

00:18:07.036 --> 00:18:10.192 at that time and a clinical core
NOTE Confidence: 0.882543598909091

00:18:10.192 --> 00:18:12.407 which studied at various clinical
NOTE Confidence: 0.882543598909091

00:18:12.407 --> 00:18:14.189 disorders and liver disease.
NOTE Confidence: 0.882543598909091

00:18:14.190 --> 00:18:16.668 Research base was made up of a
NOTE Confidence: 0.882543598909091

00:18:16.668 --> 00:18:18.799 people working on cellular and
NOTE Confidence: 0.882543598909091

00:18:18.799 --> 00:18:21.274 molecular biology of the parasite.
NOTE Confidence: 0.882543598909091

00:18:21.280 --> 00:18:21.776 Transport,
NOTE Confidence: 0.882543598909091

00:18:21.776 --> 00:18:26.196 which in my area hepatic metabolic function.
NOTE Confidence: 0.882543598909091

00:18:26.196 --> 00:18:28.706 Paddock fibrosis spike thinking
NOTE Confidence: 0.882543598909091

00:18:28.706 --> 00:18:30.921 about dynamics which was converted
NOTE Confidence: 0.882543598909091

00:18:30.921 --> 00:18:33.764 Grossman this area and clinical
NOTE Confidence: 0.882543598909091

00:18:33.764 --> 00:18:37.549 studies of alphabetic panic disorders.

NOTE Confidence: 0.882543598909091
00:18:37.550 --> 00:18:39.230 But with time and folk and the
NOTE Confidence: 0.882543598909091
00:18:39.230 --> 00:18:40.910 focus of the senator evolved,
NOTE Confidence: 0.882543598909091
00:18:40.910 --> 00:18:43.574 they're a major transition from clinical
NOTE Confidence: 0.882543598909091
00:18:43.574 --> 00:18:45.870 and whole animal physiologic studies
NOTE Confidence: 0.882543598909091
00:18:45.870 --> 00:18:49.140 to cellular and molecular approaches.
NOTE Confidence: 0.882543598909091
00:18:49.140 --> 00:18:51.696 The imaging core transition from EM
NOTE Confidence: 0.882543598909091
00:18:51.696 --> 00:18:54.849 to live cell imaging and confocal
NOTE Confidence: 0.882543598909091
00:18:54.849 --> 00:18:57.252 fluorescent microscopy, but again,
NOTE Confidence: 0.882543598909091
00:18:57.252 --> 00:18:58.800 by Mike Nathenson.
NOTE Confidence: 0.882543598909091
00:18:58.800 --> 00:19:01.362 Transport studies began to be done in
NOTE Confidence: 0.882543598909091
00:19:01.362 --> 00:19:03.329 membrane vesicles and isolated the
NOTE Confidence: 0.882543598909091
00:19:03.329 --> 00:19:05.747 parasite templates and bile duct units.
NOTE Confidence: 0.882543598909091
00:19:05.750 --> 00:19:08.020 And the clinical core became
NOTE Confidence: 0.882543598909091
00:19:08.020 --> 00:19:10.434 a biorepository for for, for,
NOTE Confidence: 0.882543598909091
00:19:10.434 --> 00:19:14.313 for blood and tissue help with statistics,
NOTE Confidence: 0.882543598909091

00:19:14.313 --> 00:19:16.780 and bioinformatics and HPC applications.
NOTE Confidence: 0.882543598909091

00:19:16.780 --> 00:19:20.000 These are some of the of the
NOTE Confidence: 0.882543598909091

00:19:20.000 --> 00:19:22.199 developments in the center that
NOTE Confidence: 0.882543598909091

00:19:22.200 --> 00:19:24.087 received international recognition.
NOTE Confidence: 0.882543598909091

00:19:24.087 --> 00:19:27.232 The development of the parasite
NOTE Confidence: 0.882543598909091

00:19:27.232 --> 00:19:29.709 couplet model primary secretory
NOTE Confidence: 0.882543598909091

00:19:29.709 --> 00:19:32.870 unit of the parasite is fluorescent
NOTE Confidence: 0.882543598909091

00:19:32.870 --> 00:19:36.100 bile acids needed into the lumen.
NOTE Confidence: 0.882543598909091

00:19:36.100 --> 00:19:39.756 Also, localized proteins and this is not MRP.
NOTE Confidence: 0.882543598909091

00:19:39.760 --> 00:19:42.600 Two it's canalicular membrane.
NOTE Confidence: 0.882543598909091

00:19:42.600 --> 00:19:45.240 You also developed isolated bile
NOTE Confidence: 0.882543598909091

00:19:45.240 --> 00:19:46.820 duct units here,
NOTE Confidence: 0.882543598909091

00:19:46.820 --> 00:19:49.420 seeing again in electron microscopy,
NOTE Confidence: 0.882543598909091

00:19:49.420 --> 00:19:51.418 but in the mountain nomarski optics,
NOTE Confidence: 0.882543598909091

00:19:51.420 --> 00:19:54.971 these lives to units could be
NOTE Confidence: 0.882543598909091

00:19:54.971 --> 00:19:56.399 stimulated with force coming.

NOTE Confidence: 0.882543598909091
00:19:56.400 --> 00:19:59.368 You can see the expansion of the women
NOTE Confidence: 0.882543598909091
00:19:59.370 --> 00:20:03.938 here and these were very useful in defining.
NOTE Confidence: 0.882543598909091
00:20:03.940 --> 00:20:05.434 About secretory properties.
NOTE Confidence: 0.882543598909091
00:20:05.434 --> 00:20:08.441 Now, as I said, Sara's reputation grew.
NOTE Confidence: 0.882543598909091
00:20:08.441 --> 00:20:10.800 It attracted a wide range of postdoctoral
NOTE Confidence: 0.882543598909091
00:20:10.855 --> 00:20:12.869 fellows, and visiting faculty,
NOTE Confidence: 0.882543598909091
00:20:12.869 --> 00:20:16.600 and many came from around the world.
NOTE Confidence: 0.882543598909091
00:20:16.600 --> 00:20:18.938 Mario Strawser Vasco here as a as
NOTE Confidence: 0.882543598909091
00:20:18.938 --> 00:20:21.392 a fellow came from Padua, Italy.
NOTE Confidence: 0.882543598909091
00:20:21.392 --> 00:20:23.760 Peter Meyer, from Zurich,
NOTE Confidence: 0.882543598909091
00:20:23.760 --> 00:20:24.182 Switzerland,
NOTE Confidence: 0.882543598909091
00:20:24.182 --> 00:20:26.292 and Peter was doing transport
NOTE Confidence: 0.882543598909091
00:20:26.292 --> 00:20:27.980 studies and membrane vesicles
NOTE Confidence: 0.721552917272727
00:20:28.046 --> 00:20:29.880 here, but he went back to
NOTE Confidence: 0.721552917272727
00:20:29.880 --> 00:20:31.420 Zurich and was the first.
NOTE Confidence: 0.721552917272727

00:20:31.420 --> 00:20:34.306 His group was the first to clone the
NOTE Confidence: 0.721552917272727

00:20:34.306 --> 00:20:37.630 bile acid uptake systems, NTCP and OTP.
NOTE Confidence: 0.721552917272727

00:20:37.630 --> 00:20:40.870 This is your graph from Vienna,
NOTE Confidence: 0.721552917272727

00:20:40.870 --> 00:20:42.780 and you're trained in electrophysiology
NOTE Confidence: 0.721552917272727

00:20:42.780 --> 00:20:45.763 and he was able to be the first one
NOTE Confidence: 0.721552917272727

00:20:45.763 --> 00:20:47.825 in the world to put a microelectrode
NOTE Confidence: 0.721552917272727

00:20:47.825 --> 00:20:50.265 and illuminate the bowl canaliculus
NOTE Confidence: 0.721552917272727

00:20:50.265 --> 00:20:52.582 and measure its voltage and
NOTE Confidence: 0.721552917272727

00:20:52.582 --> 00:20:53.668 resistances fulvic borders.
NOTE Confidence: 0.721552917272727

00:20:53.668 --> 00:20:56.532 I think we will be here later with
NOTE Confidence: 0.721552917272727

00:20:56.532 --> 00:20:58.928 us today in the round table showing
NOTE Confidence: 0.721552917272727

00:20:58.928 --> 00:21:02.036 some time later on the occasion.
NOTE Confidence: 0.721552917272727

00:21:02.040 --> 00:21:02.888 Great sailor.
NOTE Confidence: 0.721552917272727

00:21:02.888 --> 00:21:05.008 He studied the effect diversity,
NOTE Confidence: 0.721552917272727

00:21:05.010 --> 00:21:07.890 actually colic acid and had coined
NOTE Confidence: 0.721552917272727

00:21:07.890 --> 00:21:10.389 the term the bicarbonate umbrella

NOTE Confidence: 0.721552917272727
00:21:10.389 --> 00:21:13.863 as a protective agent for biliary
NOTE Confidence: 0.721552917272727
00:21:13.863 --> 00:21:16.430 disorders is Michael Tranter,
NOTE Confidence: 0.721552917272727
00:21:16.430 --> 00:21:18.579 who also will be with us later.
NOTE Confidence: 0.721552917272727
00:21:18.580 --> 00:21:19.380 Later today.
NOTE Confidence: 0.721552917272727
00:21:19.380 --> 00:21:22.180 Michael was the first one to study
NOTE Confidence: 0.721552917272727
00:21:22.180 --> 00:21:24.667 nuclear receptors and how they
NOTE Confidence: 0.721552917272727
00:21:24.667 --> 00:21:26.675 regulated the adaptive response
NOTE Confidence: 0.721552917272727
00:21:26.675 --> 00:21:28.849 to cholestatic limited series.
NOTE Confidence: 0.721552917272727
00:21:28.850 --> 00:21:31.870 Satara and he's from Vienna.
NOTE Confidence: 0.721552917272727
00:21:31.870 --> 00:21:34.108 Man alright is from the Amsterdam,
NOTE Confidence: 0.721552917272727
00:21:34.110 --> 00:21:37.148 the Netherlands and Shatara was from Japan.
NOTE Confidence: 0.721552917272727
00:21:37.150 --> 00:21:40.042 He looked at the translate tosis
NOTE Confidence: 0.721552917272727
00:21:40.042 --> 00:21:41.970 within the couplets system,
NOTE Confidence: 0.721552917272727
00:21:41.970 --> 00:21:43.885 later became Chairman of medicine
NOTE Confidence: 0.721552917272727
00:21:43.885 --> 00:21:46.298 at the University of Tokyo.
NOTE Confidence: 0.721552917272727

00:21:46.298 --> 00:21:49.340 And there were many others that
NOTE Confidence: 0.721552917272727

00:21:49.435 --> 00:21:51.607 I can't have time to to.
NOTE Confidence: 0.721552917272727

00:21:51.610 --> 00:21:54.346 So Anthony Benedetti came from Ancona,
NOTE Confidence: 0.721552917272727

00:21:54.350 --> 00:21:57.710 Italy Dominic Alvera from Rome and
NOTE Confidence: 0.721552917272727

00:21:57.710 --> 00:22:00.070 Dominic Emma will be with us later.
NOTE Confidence: 0.721552917272727

00:22:00.070 --> 00:22:02.050 Adrian Rubin from England,
NOTE Confidence: 0.721552917272727

00:22:02.050 --> 00:22:04.030 Ralphie broke from Israel,
NOTE Confidence: 0.721552917272727

00:22:04.030 --> 00:22:08.384 Alan Bowen from Ireland coming to attack
NOTE Confidence: 0.721552917272727

00:22:08.384 --> 00:22:12.600 from Bangkok and many many many others.
NOTE Confidence: 0.721552917272727

00:22:12.600 --> 00:22:14.875 This is also true at the VA
NOTE Confidence: 0.721552917272727

00:22:14.875 --> 00:22:16.470 program that Humanic program,
NOTE Confidence: 0.721552917272727

00:22:16.470 --> 00:22:17.868 that was Roberto,
NOTE Confidence: 0.721552917272727

00:22:17.868 --> 00:22:21.130 our own Lupita Garcia South from Mexico.
NOTE Confidence: 0.721552917272727

00:22:21.130 --> 00:22:23.140 Tiny boats will be with us
NOTE Confidence: 0.721552917272727

00:22:23.140 --> 00:22:26.450 later from Barcelona shift San,
NOTE Confidence: 0.721552917272727

00:22:26.450 --> 00:22:28.886 who will be with us from Delhi,

NOTE Confidence: 0.721552917272727

00:22:28.890 --> 00:22:30.842 Emmanuel secular from Israel.

NOTE Confidence: 0.721552917272727

00:22:30.842 --> 00:22:33.770 Our own Misako you were carried

NOTE Confidence: 0.721552917272727

00:22:33.850 --> 00:22:35.742 from Japan and Louis Colombatto

NOTE Confidence: 0.721552917272727

00:22:35.742 --> 00:22:37.926 from Buenos Aires in South America,

NOTE Confidence: 0.721552917272727

00:22:37.930 --> 00:22:40.978 and again many others too numerous

NOTE Confidence: 0.721552917272727

00:22:40.978 --> 00:22:44.360 to go into details of the House.

NOTE Confidence: 0.721552917272727

00:22:44.360 --> 00:22:47.822 So I want to close here with a

NOTE Confidence: 0.721552917272727

00:22:47.822 --> 00:22:50.477 brief perspective of 50 year,

NOTE Confidence: 0.721552917272727

00:22:50.480 --> 00:22:54.768 five year or like 55 year career here.

NOTE Confidence: 0.721552917272727

00:22:54.770 --> 00:22:56.630 On the scientific progress.

NOTE Confidence: 0.721552917272727

00:22:56.630 --> 00:22:59.420 That was made in the field

NOTE Confidence: 0.721552917272727

00:22:59.514 --> 00:23:02.450 during my my tenure.

NOTE Confidence: 0.721552917272727

00:23:02.450 --> 00:23:04.478 When I was a fellow in 1967,

NOTE Confidence: 0.721552917272727

00:23:04.478 --> 00:23:05.334 fifty nine,

NOTE Confidence: 0.721552917272727

00:23:05.334 --> 00:23:07.046 there were very few

NOTE Confidence: 0.721552917272727

00:23:07.046 --> 00:23:07.902 therapeutic interventions.
NOTE Confidence: 0.74196891125

00:23:15.560 --> 00:23:18.285 Steroids though we had steroids
NOTE Confidence: 0.74196891125

00:23:18.285 --> 00:23:20.768 for autoimmune hepatitis and and
NOTE Confidence: 0.74196891125

00:23:20.768 --> 00:23:22.888 alcoholic hepatitis, although it was
NOTE Confidence: 0.74196891125

00:23:22.888 --> 00:23:24.869 very controversial in that time.
NOTE Confidence: 0.74196891125

00:23:24.870 --> 00:23:27.250 We had neomycin and enemas
NOTE Confidence: 0.74196891125

00:23:27.250 --> 00:23:29.154 but padding concept allopathy.
NOTE Confidence: 0.74196891125

00:23:29.160 --> 00:23:31.246 We had a limited number of diuretics.
NOTE Confidence: 0.5051146175

00:23:33.730 --> 00:23:36.610 Done for a cities.
NOTE Confidence: 0.5051146175

00:23:36.610 --> 00:23:38.626 We had called starmine for peritus,
NOTE Confidence: 0.5051146175

00:23:38.630 --> 00:23:41.754 portacaval shunts and Blakemore
NOTE Confidence: 0.5051146175

00:23:41.754 --> 00:23:44.878 tubes for Harrisville bleeding.
NOTE Confidence: 0.5051146175

00:23:44.880 --> 00:23:46.904 And at that time there were very few
NOTE Confidence: 0.5051146175

00:23:46.904 --> 00:23:48.976 experts in the paddock Histology and
NOTE Confidence: 0.5051146175

00:23:48.976 --> 00:23:51.163 Klatskin was preeminent in this area
NOTE Confidence: 0.5051146175

00:23:51.163 --> 00:23:54.101 and all the fellows were trained to look

NOTE Confidence: 0.5051146175

00:23:54.101 --> 00:23:57.575 at liver biopsies and this was a great

NOTE Confidence: 0.5051146175

00:23:57.575 --> 00:24:01.290 advantage as they went out into diaspora.

NOTE Confidence: 0.5051146175

00:24:01.290 --> 00:24:04.558 College of GI programs.

NOTE Confidence: 0.5051146175

00:24:04.560 --> 00:24:07.640 Now, over the next 20 to 30 years

NOTE Confidence: 0.5051146175

00:24:07.640 --> 00:24:10.249 we've been remarkable progress.

NOTE Confidence: 0.5051146175

00:24:10.250 --> 00:24:12.938 Hepatitis B was identified.

NOTE Confidence: 0.5051146175

00:24:12.938 --> 00:24:15.626 Hepatitis A was identified.

NOTE Confidence: 0.5051146175

00:24:15.630 --> 00:24:17.886 And hepatitis C was identified originally

NOTE Confidence: 0.5051146175

00:24:17.886 --> 00:24:20.872 of course, called 989 B emphasis.

NOTE Confidence: 0.5051146175

00:24:20.872 --> 00:24:24.782 Once it was antibodies to these disorders.

NOTE Confidence: 0.5051146175

00:24:24.782 --> 00:24:27.680 That was identified in 1989

NOTE Confidence: 0.5051146175

00:24:27.680 --> 00:24:30.320 vaccines for advertised B&A,

NOTE Confidence: 0.5051146175

00:24:30.320 --> 00:24:33.170 of course followed those discoveries.

NOTE Confidence: 0.5051146175

00:24:33.170 --> 00:24:35.378 And then, once the hepatitis C

NOTE Confidence: 0.5051146175

00:24:35.378 --> 00:24:37.849 virus was able to be cultured,

NOTE Confidence: 0.5051146175

00:24:37.850 --> 00:24:40.970 Charlie Rice at the Rockefeller.

NOTE Confidence: 0.5051146175

00:24:40.970 --> 00:24:44.970 Viral therapies could be developed and we

NOTE Confidence: 0.5051146175

00:24:44.970 --> 00:24:49.392 now have total cures for hepatitis CA.

NOTE Confidence: 0.5051146175

00:24:49.392 --> 00:24:51.608 Remarkable chievement over just

NOTE Confidence: 0.5051146175

00:24:51.608 --> 00:24:54.000 the 25 year period.

NOTE Confidence: 0.5051146175

00:24:54.000 --> 00:24:56.800 Cyclosporine and I was.

NOTE Confidence: 0.5051146175

00:24:56.800 --> 00:24:58.408 Discovered in 1979,

NOTE Confidence: 0.5051146175

00:24:58.408 --> 00:25:00.552 this allowed liver transplantation

NOTE Confidence: 0.5051146175

00:25:00.552 --> 00:25:03.572 to move from an experimental

NOTE Confidence: 0.5051146175

00:25:03.572 --> 00:25:06.055 situation to accepted therapy.

NOTE Confidence: 0.5051146175

00:25:06.055 --> 00:25:06.660 Parenthetically,

NOTE Confidence: 0.5051146175

00:25:06.660 --> 00:25:09.080 the first transplant at

NOTE Confidence: 0.5051146175

00:25:09.080 --> 00:25:13.238 Yale was back in 1983.

NOTE Confidence: 0.5051146175

00:25:13.240 --> 00:25:14.190 Over this period of time,

NOTE Confidence: 0.5051146175

00:25:14.190 --> 00:25:17.820 beta blockers and tips for portal

NOTE Confidence: 0.5051146175

00:25:17.820 --> 00:25:19.635 hypertension refractory societies

NOTE Confidence: 0.5051146175

00:25:19.635 --> 00:25:22.397 were developed or city oxalic

NOTE Confidence: 0.5051146175

00:25:22.397 --> 00:25:25.031 acid was found to be effective

NOTE Confidence: 0.5051146175

00:25:25.031 --> 00:25:27.800 therapy for some patients with PVC.

NOTE Confidence: 0.5051146175

00:25:27.800 --> 00:25:30.620 And the most importantly.

NOTE Confidence: 0.5051146175

00:25:30.620 --> 00:25:33.386 Particular phase as an elector age,

NOTE Confidence: 0.5051146175

00:25:33.390 --> 00:25:36.324 the genome was closed the molecular

NOTE Confidence: 0.5051146175

00:25:36.324 --> 00:25:39.670 basis for disorders like hemochromatosis,

NOTE Confidence: 0.5051146175

00:25:39.670 --> 00:25:41.632 Wilson disease, progressives,

NOTE Confidence: 0.5051146175

00:25:41.632 --> 00:25:43.872 familiar, antipathy, Cholestasis,

NOTE Confidence: 0.5051146175

00:25:43.872 --> 00:25:47.600 and other monogenetic disorders

NOTE Confidence: 0.5051146175

00:25:47.600 --> 00:25:48.728 was made possible.

NOTE Confidence: 0.9336266525

00:25:50.800 --> 00:25:55.236 Well then we come to the new Millennium 1966.

NOTE Confidence: 0.9336266525

00:25:55.236 --> 00:25:58.332 Jim Anderson became chief of the

NOTE Confidence: 0.9336266525

00:25:58.332 --> 00:26:00.382 tested diseases for a period of

NOTE Confidence: 0.9336266525

00:26:00.382 --> 00:26:02.305 six years before he was lured away

NOTE Confidence: 0.9336266525

00:26:02.305 --> 00:26:04.040 to University of North Carolina.
NOTE Confidence: 0.9336266525

00:26:04.040 --> 00:26:06.815 The head of the Physiology
NOTE Confidence: 0.9336266525

00:26:06.815 --> 00:26:09.035 department is now NIH.
NOTE Confidence: 0.9336266525

00:26:09.040 --> 00:26:11.730 And Michael Jackson came to
NOTE Confidence: 0.9336266525

00:26:11.730 --> 00:26:14.420 be chief a year later.
NOTE Confidence: 0.9336266525

00:26:14.420 --> 00:26:16.912 Digestive disease until 2018.
NOTE Confidence: 0.9336266525

00:26:16.912 --> 00:26:22.698 10 years as a director of the Liver Center.
NOTE Confidence: 0.9336266525

00:26:22.700 --> 00:26:26.088 This is a good segue to pass the
NOTE Confidence: 0.9336266525

00:26:26.088 --> 00:26:29.122 baton to Michael and thank you
NOTE Confidence: 0.9336266525

00:26:29.122 --> 00:26:32.160 for being here with us today on
NOTE Confidence: 0.9336266525

00:26:32.265 --> 00:26:35.260 this on this wonderful journey.
NOTE Confidence: 0.9336266525

00:26:35.260 --> 00:26:38.844 Of our Jubilee and hepatology in jail.
NOTE Confidence: 0.9336266525

00:26:38.850 --> 00:26:39.718 Thank you very much.
NOTE Confidence: 0.903343021333333

00:26:41.720 --> 00:26:44.597 So Jim, thank you very much for
NOTE Confidence: 0.903343021333333

00:26:44.597 --> 00:26:46.857 a very comprehensive and history
NOTE Confidence: 0.903343021333333

00:26:46.857 --> 00:26:49.510 of our illustrious work at Yale

NOTE Confidence: 0.903343021333333
00:26:49.510 --> 00:26:51.970 in in liver and GI disease.
NOTE Confidence: 0.903343021333333
00:26:51.970 --> 00:26:53.546 And I want to remind the audience if
NOTE Confidence: 0.903343021333333
00:26:53.546 --> 00:26:54.950 they would like to ask a question.
NOTE Confidence: 0.903343021333333
00:26:54.950 --> 00:26:57.481 We still have some time few minutes for
NOTE Confidence: 0.903343021333333
00:26:57.481 --> 00:26:59.390 questions and if you want to ask one,
NOTE Confidence: 0.903343021333333
00:26:59.390 --> 00:27:02.778 you can use the the Q&A function
NOTE Confidence: 0.903343021333333
00:27:02.778 --> 00:27:05.326 of of zoom to to do that.
NOTE Confidence: 0.903343021333333
00:27:05.330 --> 00:27:06.914 And and if not,
NOTE Confidence: 0.903343021333333
00:27:06.914 --> 00:27:09.668 I'm looking forward to meeting you at
NOTE Confidence: 0.903343021333333
00:27:09.668 --> 00:27:12.135 our next meeting next next talk which
NOTE Confidence: 0.903343021333333
00:27:12.135 --> 00:27:14.820 will be given by Doctor Nathanson.
NOTE Confidence: 0.812807914166667
00:27:18.850 --> 00:27:20.278 So Jim, why are we waiting
NOTE Confidence: 0.812807914166667
00:27:20.278 --> 00:27:21.990 when we have a few minutes?
NOTE Confidence: 0.812807914166667
00:27:21.990 --> 00:27:24.006 Maybe I can ask you a question,
NOTE Confidence: 0.812807914166667
00:27:24.010 --> 00:27:26.284 what what would you have hoped
NOTE Confidence: 0.812807914166667

00:27:26.284 --> 00:27:28.251 to accomplish in those many
NOTE Confidence: 0.812807914166667

00:27:28.251 --> 00:27:30.519 years and that you haven't done?
NOTE Confidence: 0.812807914166667

00:27:30.520 --> 00:27:32.380 Sorry to repeat.
NOTE Confidence: 0.812807914166667

00:27:32.380 --> 00:27:35.386 I want to ask you what you would have
NOTE Confidence: 0.812807914166667

00:27:35.386 --> 00:27:37.564 liked to accomplish in your many,
NOTE Confidence: 0.812807914166667

00:27:37.564 --> 00:27:38.804 many years that year and
NOTE Confidence: 0.812807914166667

00:27:38.804 --> 00:27:40.170 you didn't manage to do it.
NOTE Confidence: 0.788161617777778

00:27:43.980 --> 00:27:45.738 Well, I guess we would provide
NOTE Confidence: 0.788161617777778

00:27:45.738 --> 00:27:47.250 some Nobel prizes. Probably
NOTE Confidence: 0.87032419

00:27:48.380 --> 00:27:50.516 I mean you've done so much right exactly.
NOTE Confidence: 0.749216055

00:27:53.990 --> 00:27:58.030 But I've had a marvelous career
NOTE Confidence: 0.749216055

00:27:58.030 --> 00:28:01.390 and it's been an honor and a
NOTE Confidence: 0.749216055

00:28:01.390 --> 00:28:03.990 privilege to have said to be able
NOTE Confidence: 0.749216055

00:28:03.990 --> 00:28:06.630 to help move the class Canaria
NOTE Confidence: 0.749216055

00:28:06.630 --> 00:28:09.778 into to the modern modern era.
NOTE Confidence: 0.749216055

00:28:09.778 --> 00:28:12.769 That that's why. And to combine

NOTE Confidence: 0.749216055

00:28:12.769 --> 00:28:15.810 all of our diversity activities.

NOTE Confidence: 0.5950558025

00:28:17.910 --> 00:28:20.120 The car is probably the

NOTE Confidence: 0.5950558025

00:28:20.120 --> 00:28:21.446 most important account.

NOTE Confidence: 0.7418307875

00:28:22.170 --> 00:28:23.918 Good well thanks again.