

Yale School of Medicine Student Research Day



Tuesday, May 18, 2021

A Virtual Event

9:00 A.M. - 9:15 A.M. Opening Remarks

9:15 A.M. – 11:55 A.M. Scientific Panel Discussions and Jill and Lee Goldman MD '73 Plenary Scientific Session

12:05 P.M. – 12:15 P.M. Remarks by Dr. Lee Goldman, YSM Class of '73

> 12:15 P.M. – 1:05 P.M. Lunch Break

1:05 P.M. – 3:25 P.M. Scientific Panel Discussions and Jill and Lee Goldman MD '73 Plenary Scientific Session

> 3:25 P.M. - 4:00 P.M. Break

> 4:00 P.M. - 5:00 P.M.

33rd Annual Lee E. Farr Lecture delivered by Dr. Helen Hobbs

Dallas Heart Ball Chair in Cardiology Research, Professor of Internal Medicine and Molecular Genetics at the University of Texas Southwestern Medical Center

> 5:10 P.M. – 5:25 P.M. Dr. John N. Forrest, Jr., Mentorship Award

5:25 P.M. - 6:15 P.M.
Presentation of Farr Certificates
to graduating MD and MD, PhD Students

6:15 P.M. – 6:30 P.M. Closing Remarks 9:00 A.M. 9:15 A.M.

Opening Remarks

Drs. Sarwat Chaudhry and Erica Herzog, Associate Deans, Student Research

Dr. Nancy J. Brown, Jean and David W. Wallace Dean of the Yale School of Medicine and C.N.H. Long Professor of Internal Medicine

9:15 A.M.-9:45 A.M.

Scientific Poster Session, Panel 1

June Criscione. Development of XBP1 Alternative Splice-Site Assay for Unfolded Protein Response in Xenopus Tropicalis Embryos. (Mentor: Dr. Mustafa Khoka)

Don Li. Insulin-Stimulated Endoproteolytic TUG Cleavage Links Energy Expenditure with Glucose Uptake. (Mentor: Dr. Jonathan Bogan)

Nathan Lifton. Regulate Apoptosis in C. Elegans Development. (Mentor: Dr. Marc Hammarlund)

Jonathan Marquez. The Role of EMC1 in Congenital Disease: Defects in Membrane Protein Topogenesis Alters the Neural Crest and Derived Tissues. (Mentor: Dr. Mustafa Khoka)

Shreyas Panchagnula. *Integrative Genomics Implicates Disruption of Prenatal Neurogenesis in Congenital Hydrocephalus*. (Mentor: Dr. Kristopher Kahle)

Chang Su. Novel Nanoparticle-Based Strategies to Prevent UVR Induced Genotoxicity in Melanocytes. (Mentor: Dr. Michael Girardi)

9:45 A.M. -10:05 A.M.

Jill and Lee Goldman, MD '73 Plenary Scientific Session

Alanna Kaplan

Novel Methods for Inhibiting DNA Double Strand Break Repair for Use in Cancer Therapy

(Mentor: Dr. Peter Glazer)

10:05 A.M.-10:15 A.M. Break

10:15 A.M.-10:45 A.M.

Scientific Poster Session, Panel 2

Ahmad Abdel-Aty. Scleritis Patients in a Tertiary Care Center: A Retrospective Study. (Mentor: Dr. Ninani Kombo)

Osama Ahmed. Epidemiology, Outcomes, and Prognostic Factors of Orbital Lymphoma in the United States. (Mentor: Dr. Renelle Lim)

Enoch Chang. Deep Learning Survival Analysis for Patients with Brain Metastasis. (Mentor: Dr. Sanjay Aneja)

Daniel Hodson. Clinical and Epidemiological Characteristics of Plasmodium Infection at an Urban Emergency Department in Cameroon. (Mentor: Dr. Sunil Parikh)

Daniel Jacobs. Assessing Epidemiology, Treatment Selection, and Outcomes of Head and Neck Merkel Cell Carcinoma. (Mentor: Dr. Benjamin Judson)

Michael Solotke. FDA Black Box Warnings and their Impact on Medicare Prescription Drug Formulary Coverage. (Mentor: Dr. Joseph S. Ross)

10:45 A.M.-11:05 A.M.

Jill and Lee Goldman, MD '73 Plenary Scientific Session

Chaarushi Ahuja

Utilizing Qualitative Methods to Inform Interventions for Addressing Alcohol Use During Pregnancy

(Mentor: Dr. Kimberly Yonkers)

11:05 A.M.-11:15 A.M. Break

11:15 A.M.-11:45 A.M.

Scientific Poster Session, Panel 3

Kevin Liu. Complement-Induced Post-Translational Regulation of TGF-\(\beta \) Signaling on Endothelial Cells. (Mentor: Dr. Daniel Jane-Wit)

Matthew Meizlish. Macrophage Mechanosensing of the Tissue Environment and Signal Integration through the Cytoskeleton. (Mentor: Dr. Ruslan Medzhitov)

Fatima Mirza. High-Throughput Drug Screening to Identify Synergistic Therapies for Cutaneous T Cell Lymphoma. (Mentor: Dr. Michael Girardi)

Max Rolison. Atypical Connectivity Lateralization Associated with Autism Presents within the First Year of Life. (Mentor: Dr. Dustin Scheinost)

Melinda Wang. Estradiol Effects on Severity of Acute Pancreatitis in Ovariectomized Mice. (Mentor: Dr.Fred Gorelick)

Charlie Zhao. Neural Mechanisms of Abnormal and Normal Consciousness in Rodent Models. (Mentor: Dr. Hal Blumenfeld)

11:45 A.M.-12:05 P.M.

Jill and Lee Goldman M.D. '73 Plenary Scientific Session

Nelson Ugwu

Somatic GJA4 Mutation in Vascular Malformations Reveals A Novel Pathway for Vascular Neoplasia (Mentor: Dr. Keith Choate)

12:05 P.M.-12:15 P.M.

Remarks by Dr. Lee Goldman, YSM Class of '73

12:15 P.M.-1:05 P.M. Lunch Break

1:05 P.M.-1:35 P.M.

Scientific Poster Session, Panel 4

Patrick Burroughs. Temporal Utilization of Physical Therapy Visits Following Anterior Cruciate Ligament Reconstruction. (Mentor: Dr. Jonathan Grauer)

Max Jordan Nguemeni Tiako. *Pitfalls and Growth Areas in the Treatment of Prenatal Opioid Use Disorder*. (Mentor: Dr. Jennifer Culhane)

Halsey Niles. Palliative Care Provider Attitudes toward Psychedelic-Assisted Therapy for Existential Distress. (Mentor: Dr. Ben Kelmendi)

Stefanie Rohde. Social Media Use in a Virtual Selection Process for General Surgery Residency. (Mentor: Dr. Peter S. Yoo)

Annabelle Wilcox. Navigating Barriers to Affording and Obtaining Diabetes Treatment. (Mentor: Dr. Laura Nally)

1:35 P.M.-1:55 P.M.

Jill and Lee Goldman, MD '73 Plenary Scientific Session

Ezra Lichtman

Refugee Health, Healthcare, and Resettlement in New Haven, Connecticut: A Historical Study with Contemporary Implications (Mentor: Dr. Naomi Rogers)

1:55 P.M.-2:05 P.M. Break

2:05 P.M.-2:35 P.M.

Scientific Poster Session, Panel 5

Juliana Lawrence. Shared Decision-Making and Prevention Recommendations: Implications for Public Health. (Mentor: Dr. Jason Schwartz)

Patrick Liu. Drug Pricing for Medications Prescribed for Chronic Conditions Common Among Adults in the U.S. (Mentor: Dr. Joseph S. Ross)

Natalie Lomayesva-Seligman. *Community-Based Use of Interventional Psychiatric Services for the Pediatric Population*. (Mentor: Dr. Jennifer Dwyer)

Taylor Ottesen. Implementation and Impact Evaluation of a Virtual Orthopaedic Continuing Medical Education Conference in a Low-resource Country. (Mentors: Drs. Jonathan N. Grauer and Lee E. Rubin)

Qisi (Mary) Sun. The Ichthyosis Scoring System (ISS): The Development and Validation of a Novel Ichthyosis Severity Assessment Instrument. (Mentor: Dr. Keith Choate) 2:35 P.M.-2:55 P.M.

Jill and Lee Goldman, MD '73 Plenary Scientific Session

Lorenzo Sewanan

Mechanisms of Diastolic Dysfunction in Hypertrophic Cardiomyopathy (Mentor: Dr. Stuart Campbell)

2:55 P.M. 3:05 P.M. Break

3:05 P.M.-3:25 P.M.

Jill and Lee Goldman, MD '73 Plenary Scientific Session

Kishan Patel

Cost-Effectiveness of Daratumumab in Older, Transplant-Ineligible Patients with Multiple Myeloma (Mentor: Dr. Scott Huntington)

3:25 P.M.-4:00 P.M. Break

4:00 P.M. -5:00 P.M.

Thirty-third Annual Lee E. Farr, MD Lectureship

SCIENCE, SERENDIPITY AND THE SINGLE DEGREE Helen Hobbs, MD

Dallas Heart Ball Chair in Cardiology Research, Professor of Internal Medicine and Molecular Genetics at the University of Texas Southwestern Medical Center

5:00 P.M.-5:10 P.M. Break

5:10 P.M. - 5:25 P.M.

Presentation of the Dr. John N. Forrest, Jr., Mentorship Award to Silvia Vilarinho, MD, PhD

John K. Forrest, MD

Drs. Sarwat Chaudhry and Erica Herzog, Associate Deans, Student Research

5:25 P.M. - 6:15 P.M.

Presentation of Farr Certificates to graduating MD and MD, PhD Students

Drs. Sarwat Chaudhry and Erica Herzog, Associate Deans, Student Research 6:15 P.M. - 6:30 P.M.

Closing Remarks

Drs. Sarwat Chaudhry and Erica Herzog, Associate Deans, Student Research

Non-Graduating Student Poster Presentations available for view via Box@Yale. Note: You must be registered for Virtual Student Research Day to view the presentations in Box@Yale.

Michael Amick. Child Maltreatment-related Children's Emergency Department Visits Before and During the COVID-19 Pandemic in Connecticut. (Mentor: Dr. Kirsten Bechtel)

Joana Andoh. Assessment of Visual Impairment Among US Adults with a History of Criminal Justice Involvement: Evidence from the National Survey on Drug Use and Health 2015-2018. (Mentor: Dr. Kristin Nwanyanwu)

Emily Avery. CT Angiographic Radiomics Signature for Prognostication and Clinical Decision Making in Large Vessel Occlusion Stroke. (Mentor: Dr. Sam Payabvash)

Fang Ba. *Inpatient Care and Costs for Dementia Patients in China*. (Mentors: Drs. Xi Chen, Heather Allore)

Ryan Bahar. A "Third Look": Evaluating YSM Student-Led Efforts to Recruit the Admitted Class of 2025 in the COVID Era. (Mentors: Dr. Laura Ment)

Ryan Bahar. Clinician-Educator Training Programs in Undergraduate Medical Education: A Comprehensive Review. (Mentor: Dr. Janet Hafler)

Gabriel Betancur. A Self-Assessment: Understanding Perceptions of New Onset Type 1 Diabetes (T1D) Education in a Pediatric Tertiary Care Center. (Mentor: Dr. Jennifer Sherr)

Julian Campillo Luna. *Mohegan-Yale SARS-COV-2 Seroprevalence* (Antibody) Project. (Mentor: Dr. Carrie Redlich)

Gloria Chen. National Carbon Footprint of Inhaled Anesthetic Gases. (Mentor: Dr. Jodi Sherman)

Violeta Contreras Ramirez. Responsiveness Testing Versus Recall Testing of Awareness in Temporal Lobe Epilepsy. (Mentor: Dr. Hal Blumenfeld)

Rahul Dhodapkar. Disruption of Neuroregeneration of Retinal Ganglion Cells in Human Glaucoma. (Mentor: Dr. Brian Hafler)

Madeline DiGiovanni. *Drug Story Theater: A Mixed Methods Study of a Peer to Peer Approach to Substance Abuse Education*. (Mentor: Dr. Andrés Martin)

Anoop Galivanche. Admission NarxCare Narcotics Scores Are Associated with Increased Odds of Readmission Following Primary Elective Total Knee Arthroplasty. (Mentor: Dr. Jonathan Grauer)

Lucy Gao. The Rise of Prolonged Lengths of Stay: Inpatient Stakeholder Perspectives. (Mentor: Dr. Gretchen Berland)

Mursal Gardezi. Effects of COVID-19 on Orthopaedic Surgery Residency Application Trends. (Mentor: Dr. Jonathan Grauer)

Michael Gouzoulis. Physical Therapy Utilization Following Single-Level Posterior Lumbar Fusion. (Mentor: Dr. Jonathan Grauer)

Mary Elizabeth Guerra. Nanoparticle Delivery to Fetal Pancreas in a Mouse Model. (Mentor: Dr. David Stitelman)

Scott Halperin. Characterizing Seasonal Trends of over 270 Million Consumer-Product Related Injuries in United States Emergency Departments based on Data from 1999-2018. (Mentor: Dr. Jonathan Grauer)

Scott Halperin. Characterization of Over a Third of a Million Toy-Related Fractures. (Mentor: Dr. Jonathan Grauer)

John Havlik. Lessons from the COVID-19 Pandemic: The Case for Virtual Residency Interviews. (Mentors: Drs. Nita Ahuja and Viji Kurup)

Katherine Hill. Prevalence of Medical Student Mistreatment by Sex, Race/Ethnicity, and Sexual Orientation. (Mentor: Dr. Dowin Boatright)

Laura Hoyt. *Increased Susceptibility to Anaphylaxis to Peanut in C3H/HeJ Mice is Associated with Increased Intestinal Permeability*. (Mentor: Dr. Stephanie Eisenbarth)

Ruoyi Jiang. Persistence of IgG B cell Clones After Rituximab Predicts Poor Symptom Improvement in AChR Myasthenia Gravis. (Mentor: Dr. Richard Nowak)

Amber Loren King. A Closer Exploration of Implicated Therapeutic Targets in CTCL with a Focus on JAK Isoform-specific Inhibition. (Mentor: Dr. Michael Girardi)

Sreeja Kodali. *The Impact of Cannabidiol on Psychotic Symptoms and Cognitive Impairment in Patients with Early Psychosis.* (Mentors: Drs. Mohini Ranganathan and Deepak Cyril D'Souza)

Audrey Leasure. Association of Serum IL-6 with Functional Outcome after Intracerebral Hemorrhage. (Mentor: Dr. Kevin Sheth)

Megan Lee. I Smoke to Cope with Pain: Patients' Perspectives on the Link Between Cigarette Smoking and Pain. (Mentor: Dr. Lori Bastian)

Angela Liu. Regulation of Immune Cell Matrix Metalloproteinase Production by the Sarcoidosis Lung Matrisome. (Mentor: Dr. Erica Herzog)

Mitchelle Matesva. Blinatumomab Use as Novel Bridging Therapy in Relapsed Pediatric ALL with Active Invasive Infection. (Mentor: Dr. Nina Kadan-Lottick)

Michael Mercier. Revision Total Hip and Knee Arthroplasty are Associated with Lower HCAHPS Patient Satisfaction Scores Compared to Primary Arthroplasty. (Mentor: Dr. Jonathan Grauer)

Alexander Moushey. Direct Laryngoscopy & Bronchoscopy: An Educational Video Series. (Mentor: Dr. Sarah Maurrasse)

Autumn Nobles. The Association Between Social Needs Care Coordination and Social Needs Status Amongst Patients in a Community Health Center. (Mentor: Dr. Karen Wang)

Nishita Pondugula. Surgical Rebound: Evaluating Rates of Repeat Laparoscopy in Patients with Biopsy-Confirmed Endometriosis. (Mentor: Dr. Hugh Taylor) Nishita Pondugula. *A Case Study of Advocacy at YSM: Recording Workshops and the Importance of Vertical Collaboration*. (Mentors: Drs. Jessica Illuzzi and Michael Schwartz)

Christopher Radcliffe. Bartonellosis in Transplant Recipients: A Single-Center, Retrospective Experience. (Mentor: Dr. Matthew Grant)

Alexander Sasse. Hypofractionated vs Conventional Radiation Therapy with Concurrent Chemotherapy for Stage III Non-small Cell Lung Cancer. (Mentor: Dr. Henry Park)

Christopher Schenck Dr. Kirsten Bechtel. Parental Attitudes, Beliefs, and Practices Related to Firearm Storage: A Qualitative Study

Claudia See. Impact of Persistent vs. Non-Persistent Conduction Abnormalities Within 7 Days Post TAVR on Mortality: Results of a Single Center Prospective Registry. (Mentors: Drs. Alexandra Lansky and John Forrest)

Cosmas Sibindi. Orthopedic Research in Zimbabwe: A Seminal Bibliometric Analysis. (Mentor: Dr. Adrienne Socci)

Erin Silva. Glucocorticoids Repress Vitamin D Receptor Expression in Human Uterine Fibroid Cells: Implications for the Therapeutic Benefit of Vitamin D. (Mentor: Dr. Shannon Whirledge)

Michelle Sodipo. *Health-Related Quality of Life among Endometrial Cancer Survivors in the American Cancer Society's Study of Cancer Survivors-I.* (Mentors: Drs. Leah M. Ferrucci and Brenda Cartmel)

Shobana Subramanian. *The Structural Dynamics of Actin and Plasticity in a Mammalian Synapse*. (Mentor: Dr. Elizabeth Jonas)

Madeleine Tessier-Kay. *Long-Term Cancer Survivors' Utilization of Healthcare Providers*. (Mentor: Dr. Brenda Cartmel and Leah Ferrucci)

Kristin Yu. Radiographic *Predictors of Pediatric Forearm Fracture Remodeling and Malunion*. (Mentor: Dr. Daniel Cooperman)

Melanie Zheng. *Implementation of Genomic Medicine in Clinical Hepatology*. (Mentor: Dr. Silvia Vilarinho)

Amanda Zhou. A High Throughput Method of Identifying Naturally-Occurring Sunscreen Agents. (Mentor: Dr. Michael Girardi)

Dr. Helen H. Hobbs attended Stanford University and then Case Western Reserve Medical School. She trained in internal medicine at Columbia-Presbyterian Hospital before completing her medical training at the University of Texas Southwestern Medical Center. She trained in the laboratory of Drs. Joseph Goldstein and Michael Brown and then joined the faculty of UT Southwestern in 1987. Together with Jonathan C. Cohen, she has identified new sequence variations/genes contributing to differences in plasma levels of LDL-cholesterol and triglyceride (TG). These studies have provided new insights into the pathogenesis of coronary heart disease and led to the development of two new lipidlowering therapies. She also has identified genetic differences contributing to susceptibility and resistance to fatty liver disease. She has performed functional studies to characterize the pathways and processes that are altered by the defective genes she identifies. She was elected to the National Academy of Medicine, the National Academy of Sciences, and the American Academy of Arts and Sciences. Among the prizes she has received are the Breakthrough Prize in Life Sciences, the Grand Prix Award from the Institute of France, and the Harrington Prize for Innovation and Medicine

The Jill and Lee Goldman, MD '73 Plenary Scientific Session is made possible by an endowment established by the Goldmans in 2019. Dr. Goldman, who is a member of the Yale College Class of 1969 and Yale School of Medicine Class of 1973, is Professor of Medicine and Epidemiology at Columbia University, where he also is Dean Emeritus of the Faculties of Health Sciences and Medicine and former Chief Executive of Columbia University Irving Medical Center.

Dr. Goldman was previously the Julius R. Krevans Professor and Chair of the Department of Medicine at the University of California, San Fran cisco, and a Professor of Medicine and Epidemiology at Harvard. He serves as lead editor of Goldman-Cecil Medicine.

Jill S. Goldman, MS, MPhil (Yale 1971), is Professor of Genetic Counseling in Neurology at Columbia University Irving Medical Center and a genetic counselor at the Taub Institute in the Vagelos College of Physicians and Surgeons. Ms. Goldman also is the editor of the textbook Genetic Counseling for Adult Neurogenetic Diseases: A Casebook for Clinicians. She also created "A Friend for Rachel," a companionship program in which people with early to moderate dementia are paired with Columbia pre-medical students.

The Goldmans are delighted to support medical student research because Yale and the thesis experience fundamentally changed their lives.

Lee E. Farr Lectureship

1988 Arnold Relman, MD 2004 Story C. Landis, PhD 1989 Arthur E. Rubenstein, MD 2005 Arthur L. Horwich, MD 1990 Anthony S. Fauci, MD 2006 Jeffrey M. Friedman, MD, PhD 1991 Sidney Altman, MD 2007 Jack Elias, MD 1992 Sydney Brenner, FRS 2008 David G. Nathan, MD 1993 Gerard N. Burrow, MD 2009 Stuart H. Orkin, MD 1994 Joseph L. Goldstein, MD 2010 Lewis Landsberg, MD 1995 Francis S. Collins, MD, PhD 2011 George Lister, MD 1996 Patricia K. Donahoe, MD 2012 Jeffrey S. Flier, MD 1997 Judah Folkman, MD 2013 Elizabeth G. Nabel, MD 1998 Alfred G. Gilman, MD, PhD 2014 James Rothman, PhD 1999 Robert J. Lefkowitz, MD 2015 Brian Kobilka, MD 2000 Harold Varmus, MD 2016 Nancy C. Andrews, MD, PhD 2001 Richard P. Lifton, MD, PhD 2017 Eric G. Neilson, MD 2018 Laurie H. Glimcher, MD 2002 Paul Greengard, PhD 2003 Edward Benz, MD 2019 George Q. Daley, MD, PhD

The Lee E. Farr M.D. Endowed Lectureship was established at Yale University School of Medicine in 1988 by Dr. Lee E. Farr. The purpose of this lectureship is "to stimulate thinking and to inspire students to strive to achieve more effective leadership and educational roles in society."

Dr. Farr, Yale College '29, MD '33, was a preeminent physician who was the medical director and physician-in-chief of the hospital at Brookhaven National Laboratory on Long Island, New York, where he participated in the design of the world's first nuclear reactor built primarily for medical purposes. He was one of the original specialists in nuclear medicine and practiced and taught at various times in Delaware, New York, Texas, California, and Oregon. Dr. Farr served as a member of the Advisory Commission on Naval Medical Research and analyzed medical effects on atomic bomb victims as a member of the Advisory Commission on the Atomic Bomb, of which he was chairman from 1954 to 1968. He had received innumerable awards and honors and written many articles on nuclear medicine, nuclear reactors, protein metabolism, emergency medical services, and radioactive and chemical environmental contaminants.

The Farr Lectureship is held in memory of Lee E. Farr, MD, who died on July 16, 1997.

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National Institutes of Health Stanley J. Sarnoff Endowment for Cardiovascular Research American Society of Hematology American Society of Nephrology American Heart Association Jill and Lee Goldman Resource Fund

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Yale Conference and Event Planning

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This year's Student Research Day is dedicated to the legacy of Dr. John N. Forrest, Jr., whose tireless commitment to student research at YSM will be forever appreciated.

