37th ANNUAL
Young Investigators’ Day
April 17, 2014
4:00 p.m.
Preclinical Teaching Building
The Vernon B. Mountcastle, M.D. Auditorium
ORDER OF EVENTS 2014

6:00 p.m. Welcome
Paul Rutstein, M.D.
Dean of School of Medicine
CEO Johns Hopkins Medicine

STUDENT LECTURES
6:05 p.m. The Michael A. Shanoff Research Award
Replication-Competent Noninflamed Prostates
Increase Barrier to HIV-1 Cure
Ya-Chi Hu, Ph.D.
Based on work completed at a Ph.D. Candidate in the Cellular and Molecular Medicine Graduate Program, April 2013.
Sponsor: Robert D. Siliciano, M.D., Ph.D.

The Mette Strand Research Award
Unremodeled and Remodeled Cardiolipin are Functionally Indistinguishable
Matthew G. Baile
Candidate for the degree of Doctor of Philosophy, Biochemistry, Cellular and Molecular Biology – Physiology Graduate Program
Sponsor: Steven M. Chopick, Ph.D.

The Marinus and Carol Macht Research Award
Twist1 Induces Dissemination with Retention of Epithelial Identity
Ellie R. Skamnic
Candidate for the degree of Doctor of Philosophy, Biochemistry, Cellular and Molecular Biology – Cell Biology Graduate Program
Sponsor: Andrew J. Iwadzik, Ph.D.

The Hans Joannis Prochaska Research Award
The Application of Rare Mutation Detection Technology in Cancer Diagnostics
Ivan A. Kinde
Candidate for the degree of Doctor of Philosophy, Cellular and Molecular Medicine Graduate Program
Sponsor: Brent Vogelstein, M.D.
Sponsor: Zdenka Kopecky, Ph.D.

The Paul Ehrlich Research Award
On and Off Retinal Circuit Assembly by Divergent Molecular Mechanisms
Lo Sprea
Candidate for the degree of Doctor of Philosophy, Neuroscience Graduate Program
Sponsor: Alan L. Kozlowski, Ph.D.

PRESENTATION OF THE STUDENT AWARDS
4:45 p.m. The Paul Ehrlich Research Awards
Myosin VIIa, A Novel Skeletal Muscle Nutrient Sensor Which Regulates Postprandial Metabolism
Maurice Sollides
Candidate for the degree of Doctor of Philosophy, Biochemistry, Cellular and Molecular Biology – Physiology Graduate Program
Sponsor: Günter W. Wagner, M.D.

Affinity Proteomics Reveals Human Fluid Factors in LINE-1 Retrotransposition
Martin Taylor
Candidate for the degree of Doctor of Philosophy, Pharmacology and Molecular Sciences Graduate Program
Sponsor: Jeff Boruk, Ph.D., Sc.D.

Evolution of Comorbidity and Survival After Diagnosis of T4a Kidney Cancer
Hira Patel
Candidate for the degree of Doctor of Medicine
Sponsor: Mohamed E. Allel, M.D.

The Michael A. Shanoff Research Award
The Role of Germ Granules in Germ Cell Fate Specification
Jennifer Wong
Candidate for the degree of Doctor of Philosophy, Biochemistry, Cellular and Molecular Biology – Molecular Biology and Genetics Graduate Program
Sponsor: Geraldine Seyfried, Ph.D.

The Allison Shareef Reynolds Research Award
L25(OF)5223 Selectively and Reversibly Impairs T-cell CNS Localization
Inna Greishkan
Candidate for the degree of Doctor of Philosophy, Cellular and Molecular Medicine
Sponsor: Peter A. Calabresi, M.D.

The David Israel Macht Research Award
Proteolyzis Within the Membrane In Race-Governed Sert Dickey
Candidate for the degree of Doctor of Philosophy, Cellular and Molecular Medicine Graduate Program
Sponsor: Simon Urban, Ph.D.

The Bae Gyun Jung Research Award
A Benchtop Bedside Probe for the Highly Variable Enzyme CYP2A5
Yousui Lu
Candidate for the degree of Doctor of Philosophy, Pharmacology and Molecular Sciences Graduate Program
Sponsor: Craig W. Hendrix, M.D.

The Nupar Elmasri Thekell Research Award
All in the Family: Conservation of Calcium Regulation Across Voltage-Gated Sodium and Calcium Channels
Musa Raajje
Candidate for the degree of Doctor of Philosophy, Biomedical Engineering Graduate Program
Sponsor: David T. Yan, M.D., Ph.D.

POSTDOCTORAL LECTURES
The Helen B. Taussig Research Award
Follow the Leader: A Basal Epithelial Program for Collective Invasion
Kevin Cheung, Ph.D.
Postdoctoral Fellow, The Oncology Center, Division of Histology/Molecular Oncology
Sponsor: Andrew J. Iwadzik, Ph.D.

The Daniel Nathans Research Award
Nucleocytoplasmic Shuttling of G6C Functions as a Developmental Timer
Huaping Cai, Ph.D.
Based on work completed as a Postdoctoral Fellow in the Department of Cell Biology during 2013
Sponsor: Andrew I. Ewald, Ph.D.

5:00 p.m.
The Johns Hopkins Medical and Surgical Association Awards for Postdoctoral Investigation were established in 1981 by the School of Medicine to recognize excellence in research by clinical or research fellows in the School of Medicine. These awards are designated for clinical research, laboratory research with direct clinical relevance, and basic laboratory research. The awards are as follows:

The Alfred Blalock Research Award
The A. McGehee Harvey Research Award
The Daniel Nathans Research Award
The Helen B. Taussig Research Award
The W. Barry Wood, Jr., Research Award

Acknowledgments: The 37th Young Investigators’ Day program is made possible by generous contributions from the Johns Hopkins Medical and Surgical Association; The Office of the Dean; friends and family of Michael Shainoff; friends and family of Daniel Martin; and Carol Macht; family of Hans Predescu; Dr. Paul and Pamela Elkind of the Department of Pharmacology and Molecular Sciences; Dr. Edmond Liberman; Dr. and Mrs. Dinesh C. Thelhali; Dr. and Mrs. John Vela; friends and family of the Gyo Jung and many friends and members of the Johns Hopkins School of Medicine.

PRESENTATION OF POSTDOCTORAL AWARDS

5:20 p.m. The W. Barry Wood, Jr., Research Award
RasAl5 Phosphorylation Mediates LRRK2 Neurodegeneration in Parkinson’s Disease
Ian Martin, M.D., Ph.D.
Predoctoral Fellow, The Department of Neurology
Sponsor: Ted Dammers, M.D., Ph.D.

The A. McGehee Harvey Research Award
Doen344 Rescues Riobosides in 3’ Untranslated Regions
Nicholas Greyskoff, Ph.D.
Predoctoral Fellow, The Department of Molecular Biology and Genetics
Sponsor: Rachel Green, Ph.D.

The Alfred Blalock Research Award
Seeing is Believing: Molecular Genetic Studies of Neuronal Structure
Hao Wu, Ph.D.
Predoctoral Fellow, The Department of Molecular Biology and Genetics
Sponsor: Jeremy Nathans, M.D., Ph.D.

The Albert Lehninger Research Award
Molecular Identification of Ibrutinhibiting Neuroinflammation in the DRG
Liang Han, Ph.D.
Predoctoral Fellow, The Department of Neuroscience
Sponsor: Xiaobing Dong, Ph.D.

5:30 p.m. Poster Presentation and Reception

37th Annual Lectureship

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Young Investigators’ Day was established in 1978 to recognize student investigators in the School of Medicine and to provide them with a forum for presentation of their work.

The Michael A. Shainoff Research Award was established in 1977 in memory of Dr. Shainoff who received his M.D. and Ph.D. from the Johns Hopkins Medical Institutions in 1973.

The David Israel Macht Research Award was established in 1982 to commemorate the memory of his birth. Dr. Macht was a 1986 School of Medicine graduate and member of the faculty of the Department of Pharmacology and Medicine at Johns Hopkins.

The Martin and Carol Macht Research Award was established in 1993 to honor Dr. Martin B. Macht, who received his M.D. and Ph.D. from Johns Hopkins, and was a trustee of the University for many years. Dr. Carol Macht received her M.A. and Ph.D. from Johns Hopkins in the History of Art and Archaeology.

The Alicia Showalter Reynolds Research Award was established in 1996, in memory of Alicia Showalter Reynolds, a Ph.D. student in the Department of Pharmacology and Molecular Sciences.

The Mary Strand Research Award was established in 1998, in memory of Dr. Strand who was Professor of Pharmacology and Molecular Sciences.

The Hans Joaquin Predescu Research Award was established in 1998 in memory of Dr. Predescu who earned his M.D. and Ph.D. at Johns Hopkins.

The Paul Elrich Research Award is given to candidates in the Ph.D. M.D. or Master programs at the Johns Hopkins School of Medicine in recognition of their contributions in research.

The Nupur Dinesh Thelhali Award was established in 2002 in memory of Nupur Dinesh Thelhali, M.D.-Ph.D. student at Johns Hopkins.

The Baegyong Jung Research Award was established in 2006 by friends and family in memory of Baegyong Jung, who was a predoc student in the department of Biomedical Chemistry.