DEPARTMENT OF MEDICINE
ANNUAL REPORT

DISCOVERY AND INNOVATION 2019
This past academic year the Department of Medicine achieved remarkable success in every aspect of our tripartite mission. We described innovative pathways to diagnose and treat disease, we made major discoveries to advance science and medicine, and we used this vast knowledge to train the next generation of physician scientists. Over the past year, Medicine investigators successfully competed for a record high of $169M in total cost research funding and continued to translate basic research into clinical practice with multiple seminal discoveries, publishing thousands of impactful papers with dozens in high profile journals, and conducting more than 1,600 clinical research studies. Our expertise was acknowledged with U.S. News & World Report (USNWR) recognition for our clinical programs and NIH top 25 recognition in research funding.

OTHER NOTABLE DEPARTMENTAL HIGHLIGHTS FROM THIS PAST YEAR INCLUDE:

- The appointment of four new administrative leaders: Diana Bolotin, MD, PhD as Chief of the Section of Dermatology; Hedy Kindler, MD as Associate Vice Chair for Clinical Research; Sonali Smith, MD as the Interim Chief of the Section of Hematology/Oncology; and Steve White, MD as Vice Chair for Appointments and Promotions
- Several institutional and national leadership appointments: Halina Brukner, MD as Dean for Medical Education; Walter Stadler, MD as Dean for Clinical Research; and Louis Philipson, MD, PhD as President of Medicine & Science for the American Diabetes Association
- National and state recognition for the outstanding work of our faculty. For example, Marshall Chin, MD was elected to the American Association of Physicians, and Olufunmilayo Olopade, MD and Louis Philipson, MD, PhD were recipients of the State of Illinois Order of Lincoln Award. Vineet Arora, MD was recently elected to the National Academy of Medicine and was selected as a Josiah Macy Foundation Faculty Scholar; Monica Vela, MD was selected by the National Latino Medical Students Association as the Mentor of the Year, and Richard Larson, MD was awarded the Henry Stratton Medal from the American Society of Hematology
- Extraordinary research funding success for several of our investigators in the areas of HIV, autoimmunity, oxygen sensing, diabetes, colon cancer screening, microbiome, health disparities and outcomes research
- USNWR recognition in Gastroenterology, Cancer, Nephrology, and Geriatrics
- Increased activity across all clinical operations, improved patient access as well as significant presence at the University of Chicago Medicine offsite practices throughout Chicago
- Highly successful residency and fellowship match
- Cultivating a new generation of scientists via our Coggeshall Fellow and Pathway to Independence instructor appointments

I am proud to lead a department that is comprised of clinicians, scientists and educators that are dedicated to discovery and innovation to advance our tripartite missions. I am grateful to the faculty for their amazing contributions to our success over the past year.
### EXECUTIVE COMMITTEE:
- Chairman, Department of Medicine: Everett E. Vokes, MD
- Vice-Chair of Appointments & Promotions: Steven White, MD
- Vice-Chair of Clinical Operations: Matthew Somerlin, MD
- Vice-Chair of Education: John McConville, MD
- Vice-Chair of Faculty Development: Deborah Burnett, MD
- Vice-Chair of Research: Julian Solway, MD
- Yoav Gilad, PhD
- John McConville, MD
- Deborah Burnett, MD
- Julian Solway, MD
- Yoav Gilad, PhD
- Deborah Burnett, MD
- Julian Solway, MD
- Yoav Gilad, PhD

### SAUCERIZATION

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chairman, Department of Medicine</td>
<td>Everett E. Vokes, MD</td>
</tr>
<tr>
<td>Vice-Chair of Appointments &amp; Promotions</td>
<td>Steven White, MD</td>
</tr>
<tr>
<td>Vice-Chair of Clinical Operations</td>
<td>Matthew Somerlin, MD</td>
</tr>
<tr>
<td>Vice-Chair of Education</td>
<td>John McConville, MD</td>
</tr>
<tr>
<td>Vice-Chair of Faculty Development</td>
<td>Deborah Burnett, MD</td>
</tr>
<tr>
<td>Vice-Chair of Research</td>
<td>Julian Solway, MD</td>
</tr>
<tr>
<td>Yoav Gilad, PhD</td>
<td>John McConville, MD</td>
</tr>
<tr>
<td>Deborah Burnett, MD</td>
<td>Julian Solway, MD</td>
</tr>
<tr>
<td>Yoav Gilad, PhD</td>
<td>Deborah Burnett, MD</td>
</tr>
<tr>
<td>Julian Solway, MD</td>
<td>Yoav Gilad, PhD</td>
</tr>
<tr>
<td>Deborah Burnett, MD</td>
<td>Julian Solway, MD</td>
</tr>
<tr>
<td>Yoav Gilad, PhD</td>
<td>Deborah Burnett, MD</td>
</tr>
</tbody>
</table>

### CARDIOLOGY
- James Liu, MD

### COMPUTATIONAL BIOMEDICINE & BIOMEDICAL DATA SCIENCE
- Robert Grossman, PhD & Andrey Rzhetsky, PhD

### DERMATOLOGY
- Diana Bolotin, MD, PhD

### EMERGENCY MEDICINE
- Linda Drueken, MD

### ENDOCRINOLOGY, DIABETES & METABOLISM
- Ronald Cohen, MD

### GASTROENTEROLOGY, HEPATOLOGY & NUTRITION
- David Rubin, MD

### GENERAL INTERNAL MEDICINE
- Deborah Burnett, MD

### GENETIC MEDICINE
- Yoav Gilad, PhD

### GERIATRICS & PALLIATIVE MEDICINE
- Stacie Levine, MD

### HEMATOLOGY/ONCOLOGY
- Sunil Smith, MD (interim)

### HOSPITAL MEDICINE
- David Matzke, MD, PhD

### INFECTIOUS DISEASES & GLOBAL HEALTH
- David Pitrak, MD

### NEPHROLOGY
- Arlene Shapiro, MD

### PULMONARY/CRITICAL CARE
- Gokhan Mutlu, MD

### RHUMATOLOGY
- Marcus Clark, MD

### DIVERSITY & INCLUSION COMMITTEE
- Monica Velasquez, MD

### WOMEN’S COMMITTEE
- Julie Oyler, MD

### 2019 CHIEF RESIDENTS
- Lauren Feld, MD
- Sarah Gray, MD
- Maria McKinstry, MD
- David Tehrani, MD

### 2020 CHIEF RESIDENTS
- Kirk Cahill, MD
- Jennifer Hsu, MD
- Joshua Katz, MD
- Elisabeth Morrow, MD

### BUDGET AND FINANCE
- Sunila Goel

### CLINICAL REVENUE AND BILLING
- Jim Slivka

### CLINICAL RESEARCH SUPPORT
- Lisa Kogan

### CLINICAL TRIALS FINANCIAL GROUP
- Allison Bunamark

### HUMAN RESOURCES (ACADEMIC)
- Ashley Hoambrecker

### HUMAN RESOURCES (STAFF)
- Sharon Frazier

### INFORMATION SYSTEMS
- Chris Yerans

### RESEARCH ADMINISTRATION
- Max Marchevsky

### APPOINTMENTS
- Dorothy Hanck, PhD

### CLINICAL OPERATIONS
- Matthew Sorrentino, MD

### EDUCATIONAL ACTIVITY
- Training Residents: 299
- Subspecialty Fellows: 177
- NIH T32 Training Grants: 122

### RESEARCH ACTIVITY
- Total NIH Awards: $122M
- Total Sponsored Research Awards & Clinical Trial Earnings: $169M

### CLINICAL ACTIVITY
- Onsite Outpatient Visits: 1,245,644
- Emergency Room Visits: 204,437
- Offsite Outpatient Visits: 29,794
- Inpatient Admissions: 15,496

### FACULTY
- 15 SUBSPECIALTY SECTIONS
- 313 FACULTY

### RVU’s
- 351 TRANSPLANT CASES

---

*New in FY19
**New in FY20
SPECIAL AWARDS 2019

Elected Fellows of the American Academy of Arts and Sciences
Graeme Bell, PhD
Olufunmilayo Olopade, MD

Elected Members of the Association of American Physicians
Michael A. Becker, MD
Antonio Bianco, MD, PhD
Eugene Chang, MD
Artene Chapman, MD
Harold Chin, MD
Marcus Clark, MD
Fredric Cox, MD
Alan Leff, MD
Bana Jabri, MD, PhD
James Liao, MD
Harvey Golomb, MD
Lucy Godley, MD, PhD
Thomas Gajewski, MD, PhD
Elbert Huang, MD, MPH
Frederic Coe, MD
Marcus Clark, MD
Eugene Chang, MD
Michael A. Becker, MD
Vineet Arora, MD
Marisa Alegre, MD, PhD
Everett Vokes, MD

American College of Physicians Masters
Mark Siegler, MD

Department of Medicine Named Professorships
Robert Grossman, PhD – Frederick H. Rawson Distinguished Service Professor
Robert Gibbons, PhD – Blum Riese Professor
Thomas Gajewski, MD, PhD – AbbVie Foundation Professor
Eugene Chang, MD – Martin Boyer Professor
Mark Siegler, MD – Harold H. Hines, Jr Professor
Michelle Le Beau, MD – Arthur and Marian Edelstein Professor
David Meltzer, MD, PhD – Fanny L. Pritzker Professor
Robert Gibbons, PhD
Marshall Chin, MD
Irving Waxman, MD
Everett Vokes, MD – John E. Ultmann Professor
Eve Van Cauter, PhD – Frederick H. Rawson Professor
Wendy Stock, MD – Anjuli Seth Nayak Professor in Leukemia
Walter Stadler, MD – Fred C Buffett Professor
Julian Solway, MD – Walter L. Palmer Distinguished Service Professor
Sonali Smith, MD – Elwood V. Jensen Professor
Keyoumars Soltani, MD – Allan L. Lorincz Professor+
Mark Siegler, MD – Lindy Bergman Distinguished Service Professor
Michelle Le Beau, MD
Joseph Baron, MD
Edward Garrity, Jr, MD (2019)

Arthur H. Rubenstein, MD Mentorship Award
Eugene B. Chang, MD (2007)
Julian Solway, MD (2008)
Jessie Hall, MD (2009)
Roberto Lang, MD (2010)
Marshall Chin, MD (2012)
Fredric Coe, MD
Everett Vokes, MD – John E. Ultmann Professor
Irving Waxman, MD – Sara and Harold Lincoln Thompson Professor

Distinguished Service Awards
Joseph B. Korinek, MD, PhD (2006)
Janet Rowley, MD (2007)
Louis Cohen, MD (2008)
Morton Aronoff, MD (2009)
Angelo Scaino, MD (2010)
Keyoumars Soltani, MD (2011)
Jessie B. Hall, MD (2013)
Roy E. Weiss, MD, PhD (2014)
Mark Siegler, MD (2014)
Samuel Reteloff, MD (2015)
Eve Van Cauter, PhD (2016)
Roberto Lang, MD (2017)
Dorothy Hanck, PhD (2017)
Linda Druecke9, MD (2018)
Michelle Le Beau, PhD (2018)
Joseph Baron, MD (2019)

Arthur H. Rubenstein, MD Mentorship Award
Eugene B. Chang, MD (2007)
Julian Solway, MD (2008)
Jessie Hall, MD (2009)
Roberto Lang, MD (2010)
Marshall Chin, MD (2012)
Fredric Coe, MD
Everett Vokes, MD – John E. Ultmann Professor
Irving Waxman, MD – Sara and Harold Lincoln Thompson Professor

Leif B. Sorensen, MD, PhD Faculty Research Award
Suzanne Conzen, MD (2007)
Marian Alegre, MD, PhD (2008)
Anne Sperling, PhD (2008)
Bana Jabri, MD, PhD (2009)
Eric Swenson, MD, PhD (2010)
Elbert Huang, MD (2011)
Patricia Wilson, PhD (2012)
Konstantin Brivko, MD, PhD (2013)
Lucy Godley, MD, PhD (2013)
John Schneider, MD, MPH (2014)
Yu Ying He, PhD (2015)
Esra Tasil, MD (2016)
Monica Peak, MD (2017)
Yun Fang, PhD (2018)
Megan Huisingh-Scheetz, MD (2019)
Neda Laikevrapong, MD (2019)

Arthur H. Rubenstein, MD Mentorship Award
Eugene B. Chang, MD (2007)
Julian Solway, MD (2008)
Jessie Hall, MD (2009)
Roberto Lang, MD (2010)
Marshall Chin, MD (2012)
Fredric Coe, MD
Everett Vokes, MD – John E. Ultmann Professor
Irving Waxman, MD – Sara and Harold Lincoln Thompson Professor

Biological Sciences Division Awards
Distinguished Clinician
(Senior Award) – Kathleen Mullane, DO, Pharm D
Distinguished Leader in Program Innovation (Junior Award) – Valere Press, MD
Distinguished Educator/Mentor (Junior Award) – Shannon Martin, MD
Distinguished Leader in Community Service and Advocacy (Junior Award) – Harrieto, MD
Distinguished Leader in Community Service and Advocacy (Senior Award) – Rita Rossi-Foulds, MD
Faculty Physician Peer Role Model Award – Helen Te, MD
The Francis Strauss Mentorship Award (Clinical) – Vineet Arora, MD
Endowed Key Awards – Joseph Baron, MD (Emeritus) and Anne Hong, MD (retired)

AWARDS

2019 ANNUAL REPORT

Distinguished Service Awards
Joseph B. Korinek, MD, PhD (2006)
Janet Rowley, MD (2007)
Louis Cohen, MD (2008)
Morton Aronoff, MD (2009)
Angelo Scaino, MD (2010)
Keyoumars Soltani, MD (2011)
Jessie B. Hall, MD (2013)
Roy E. Weiss, MD, PhD (2014)
Mark Siegler, MD (2014)
Samuel Reteloff, MD (2015)
Eve Van Cauter, PhD (2016)
Roberto Lang, MD (2017)
Dorothy Hanck, PhD (2017)
Linda Druecke9, MD (2018)
Michelle Le Beau, PhD (2018)
Joseph Baron, MD (2019)

Biological Sciences Division Awards
Distinguished Clinician
(Senior Award) – Kathleen Mullane, DO, Pharm D
Distinguished Leader in Program Innovation (Junior Award) – Valere Press, MD
Distinguished Educator/Mentor (Junior Award) – Shannon Martin, MD
Distinguished Leader in Community Service and Advocacy (Junior Award) – Harrieto, MD
Distinguished Leader in Community Service and Advocacy (Senior Award) – Rita Rossi-Foulds, MD
Faculty Physician Peer Role Model Award – Helen Te, MD
The Francis Strauss Mentorship Award (Clinical) – Vineet Arora, MD
Endowed Key Awards – Joseph Baron, MD (Emeritus) and Anne Hong, MD (retired)
In her new role as Dean for Medical Education, Dr. Brukner is responsible for the entire continuum of medical education at the University of Chicago.

In 2004, she was appointed as Associate Dean for Medical School Education where she guided the implementation of an innovative new curriculum: the Pritzker Initiative for the 21st Century. As Associate Dean, Dr. Brukner was responsible for all aspects of curricular and academic issues in the Medical School, overseeing courses and clerkships, supporting faculty, and managing student academic advancement through the Committee on Student Affairs, the Curriculum Review Committees, and more. In this role, she provided ongoing support and counseling for students as they moved through the curriculum, both for classes as a whole and for individual students.

Dr. Brukner is also the founding Director of the Center for the Study of Global Health and Bioethics. She has been an advocate for global health and bioethics since her early days as a medical student and has served as a faculty member at the University of Chicago since 1982. She joined the faculty of the Section of Medicine at the University of Chicago in 1982 and was appointed as Associate Professor of Medicine in 1986.

In 1999, she was appointed as Chair of the Department of Medicine, a position she held for seven years. Dr. Brukner completed her medical school education at New York University School of Medicine and her residency in internal medicine at the University of Chicago in 1982. She joined the faculty of the Section of Medicine in 1985 and was appointed as clerkship director for internal medicine for the University of Chicago in 1988.

In 2020-21, she was re-appointed as Dean for Medical Education at the University of Chicago. She continues to oversee all aspects of curricular and academic issues in the Medical School, including the Pritzker School of Medicine, residencies and fellowships, clinical medicine, and medical education. She has been recognized for her innovations by the University of Chicago, including the Pritzker School of Medicine, residencies and fellowships, clinical medicine, and medical education. She has been recognized for her innovations by the University of Chicago, including the Pritzker School of Medicine, residencies and fellowships, clinical medicine, and medical education.
Dr. Elbert Huang is Professor of Medicine and Di- rector of the Center for Chronic Disease Research and Policy at the University of Chicago. Dr. Huang is a clinical investigator who has made significant contributions in patient-oriented diabetes trans- lational and policy research. He is best known for his work in medical decision making in diabetes care for older people and the cost-effectiveness analysis of diabetes treatments and programs.

Using methods from health economics, the decision sciences, and clinical epidemiology, Dr. Huang’s research has provided the theoretical and evidence-based foundation for the con- cept of personalizing diabetes care goals and treatments in older people. Dr. Huang’s research has directly influenced modern diabetes care practice guidelines for older people that have emphasized 1) individualization of glycemic goals, 2) the role of patient treatment preferenc- es, 3) the clinical importance of hypoglycemia, and 4) management of geriatric conditions.

Dr. Huang has also applied research meth- ods from the decision sciences to study the cost-effectiveness of new interventions from diverse disciplines including endocrinology, geriatrics, pharmacological science, surgery, and pul- monary/critical care. He has mentored 40 research trainees, who have received 7 NIH/HRSG K awards and produced over 120 peer-reviewed publications. His mentees come from all levels of training and include students (21), fellows (9) and faculty (10).

In 2015, he received an NIDDK K24 Mid-Career Investi- tigator Award in 2015, which is external recognition of his track record for outstanding mentorship. As further testament to Dr. Huang’s qualities as a mentor, both winners of the Lef Sorenson Faculty Research Award (Drs. Labrecaong and Huis- ingh-Scheetz) in 2019 were mentees of Dr. Huang.

In 2012, Dr. Huang founded the Center for Chronic Disease Research and Policy (CDRP) with the mission of improving the care and health of individuals at risk for and suffering with chronic diseases. The costs of chronic diseases are a source of the unsustainable growth of govern- mental health care budgets and all countries are trying to provide more high-quality care for their people within budgetary constraints. To support efforts to address these challenges, the CDRP specializes in the three core areas of research: Cost-effectiveness analysis and medical deci- sion making; Claims data research; and the new UChicago Practice-Based Research Network.

Dr. Huang’s research has been supported by the National Institutes of Health, the Agency for Healthcare Research and Quality, the Centers for Disease Control and Prevention, the American Diabetes Association, and the Juvenile Diabetes Research Foundation, and the Health Resource- es and Services Administration (HRSA). He has received numerous honors including the Research Paper of the Year Award from the Society of General Internal Medicine and elected membership to the American Society for Clinical Investigation. Dr. Huang received his A.B., M.D., and M.P.H. from Harvard University and joined the University of Chicago in 2001.

In 2019, Dr. Huang was selected as the recipient of the Department of Medicine’s Arthur Rubenstein Mentorship Award.

Hedy Lee Kindler, MD, is a medical oncologist and clinical researcher who designs clinical trials to evaluate new agents for the treatment of malignant mesothelioma and pancreatic cancer. She is interna- tionally recognized as an innovator in the evaluation of novel therapeutics for pleural and peritoneal mesothelioma, specifically agents targeting immune checkpoints, vascular endothelial growth factor, and mesothelin. As the Director of the University of Chicago Medicine (UCM) Mesothelioma Program, she leads a comprehensive multidisciplinary clinical trial and translational research program and runs a prominent clinical program which attracts pa- tients from across the US and around the world.

In collaboration with cancer geneticist Jane Churpek, MD, Dr. Kindler’s team recently identified that a significant proportion of mesothelioma patients carry germline mutations in cancer susceptibility genes, especially patients with peritoneal me- sothelioma, minimal asbestos exposure, young age, and a second cancer diagnosis. These data support routine clinical germline genetic testing for mesothelioma patients and provide a rati- onale for their investigation of agents that target the homologous recombination pathway. As an internationally recognized disease expert and thought leader, Dr. Kindler has also focused on establishing evidence-based treatment and staging guidelines for pleural mesothelioma. She was the Expert Panel co-chair and lead author of the American Society of Clinical Oncology Clinical Practice Guideline on the treatment of pleural mesothelioma. She also plays an integral role in the development of the current staging system for mesothelioma, as the chair of the International Association for the Study of Lung Cancer Mesothelioma Staging committee.

As further testament to Dr. Kindler’s qualities as a mentor, both winners of the Lef Sorenson Faculty Research Award (Drs. Laiteerapong and Huis- ingh-Scheetz) in 2019 were mentees of Dr. Huang. Dr. Kindler received his A.B., M.D., and M.P.H. from Harvard University and joined the University of Chicago in 2001.

In May, 2019 Dr. Kindler was appointed as Associate Vice Chair for Clinical Research for the Department of Medicine where she is responsible for strengthening the Department’s clinical research enterprise.
The Department of Medicine’s clinical programs are recognized for excellence across a broad spectrum of subspecialty patient care services for the treatment of highly complex diseases and are comprised of dedicated clinical innovators who are committed to advancing discoveries that transform patient care and health outcomes. Significant highlights from the past academic year include increased activity across all clinical operations, improved patient access and national recognition for the state-of-the-art clinical programs.

The Department of Medicine (DOM) is an institutional leader as measured by faculty size and physician work RVU generation, and a major contributor to the overall success of the University of Chicago Medicine (UCM). In FY19 DOM clinical faculty continued to perform at a strong level by generating over 1.24 million physician work RVUs (mRVUs), representing a significant portion of the clinical practice activity of the entire UCM and a 6% increase over last fiscal year. On the inpatient side, admissions increased 8% to approximately 15,500. Supporting the inpatient ED for care totaled 75,000, an increase of 9.5% from last year. Interventional cardiology also witnessed a significant increase in volumes, especially in structural heart disease and pulmonary artery procedures. In FY19, 349 transplants were performed with b Home marrow transplants accounting for 42% (145) of the volume. With the FDA’s approval of CAR-T cell therapy for adult patients with certain blood cancers, UCM is the first center in the country to have this therapy available as a standard of care. This year a total of 23 CAR-T cell procedures were done. The Advanced Heart Failure Program continues to grow and thrive. Over the past year, 42 transplants were performed, including 4 combined heart-liver procedures, and 3 heart-kidney double transplants, and 2 heart-liver double transplants. The anticipated 1 year survival of heart transplant patients is 97.3%, which represents one of the highest survival rates in the country. Gastroenterology (GI) procedure volumes totaled over 20,000 with the largest increase in colonoscopies and interventional procedures, the majority from endoscopic Barrettic procedures including endoscopic sleeve gastropasty. The Center for Endoscopic Research and Therapeutics expanded endoscopic treatments for the obesity program, performing endoscopic suturing, and endoscopic balloon procedures for obesity management. The Department’s cardiac programs had a highly successful year with the electrophysiology program experiencing a 7.5% procedural growth with more than 120 ventricular tachycardia (VT) ablations, representing one of the largest esophageal VT ablation programs in the country. The number of echocardiograms performed continued to rise and exceeded 20K studies per year. Cardiac MRI procedures also increased, reaching about 800 scans during this past year. Interventional cardiology also witnessed an increase in volumes, especially in structural heart disease and pulmonary artery procedures. The Center for Endoscopic Research and Therapeutics, technologies, and quality improvements.

Within the area of clinical research, many of the DOM’s dedicated clinicians conduct practice changing clinical research that impacts patient care with a multitude of groundbreaking therapies, technologies, and quality improvements.
The Department of Medicine has a long tradition of conducting original and rigorous biomedical and clinical research that is highly innovative and impactful. Discovery and translational investigations are critical to advancing the scientific mission. FY19 was an extraordinary year due to the success of the faculty who competed for a record high of $169M in external research funding and published over 1,600 original articles to further advance that goal. Additionally, the Department continued to strengthen its clinical research mission with the appointment of Hedy Kindler, MD as Associate Vice Chair for Clinical Research. Furthermore, the Department’s history of excellence in the training, development and mentorship of young scientists resulted in nearly a dozen junior faculty investigators earning their first independent NIH research funding or individual NIH K awards.

During the past academic year, the Department of Medicine’s research portfolio totaled nearly $122M in Federal awards, $32.6M in industry funded grants, clinical trial earnings, and over $5M in non-federal awards. In FY19, Medicine faculty acquired 85 new or competitively renewed Federal awards resulting in a 44% increase in Federal research funding and over 1,600 original articles to further advance that goal. Additionally, the Department continued to strengthen its clinical research mission with the appointment of Hedy Kindler, MD as Associate Vice Chair for Clinical Research. Furthermore, the Department’s history of excellence in the training, development and mentorship of young scientists resulted in nearly a dozen junior faculty investigators earning their first independent NIH research funding or individual NIH K awards.

During the past academic year, the Department of Medicine’s research portfolio totaled nearly $122M in Federal awards, $32.6M in industry funded grants, clinical trial earnings, and over $5M in non-federal awards. In FY19, Medicine faculty acquired 85 new or competitively renewed Federal awards resulting in a 44% increase in Federal research funding and over 1,600 original articles to further advance that goal. Additionally, the Department continued to strengthen its clinical research mission with the appointment of Hedy Kindler, MD as Associate Vice Chair for Clinical Research. Furthermore, the Department’s history of excellence in the training, development and mentorship of young scientists resulted in nearly a dozen junior faculty investigators earning their first independent NIH research funding or individual NIH K awards.

The 5th annual Janet D. Rowley Research Day was held on March 12, 2019 with an outstanding presentation by Ross Levine, MD, Director of the Memorial Sloan Kettering Center for Hematology’s Malignancies and Laurence Joseph Dinesen Chair in Leukemia Research. Best abstract winners in the faculty category were Drs. Wu, Lauren Gleason, Adriana Olson, and Susan Sam. In the trainee category best abstract winners were Chin-Fan Yeh, MD; Emeka Anyanwui, MD; William Parker, MD; and Carole Henry, PhD.

Recognizing the research success of two outstanding mid-level scientists the Department selected Dr. Laiteerapong and Megan Huls-Hislop-Scheetz, MD as the recipients of the 2019 Leif B. Sorensen, MD, PhD Faculty Research Award. Dr. Laiteerapong is a clinical-translational investigator who is highly experienced in designing and leading innovative clinical trials. In her new role, Dr. Laiteerapong is focusing her efforts on developing and implementing a strategy for growth of the clinical research operations. In FY19, the Department conducted more than 1,600 clinical research studies resulting in an all-time high of $30M in clinical trial earnings.

In FY19, the Department conducted more than 1,600 clinical research studies resulting in an all-time high of $30M in clinical trial earnings.

SELECT HIGH IMPACT FEDERAL AWARDS:*

- Medical Scientist Training Program – Marcus Clark, MD
- Developing and Operating a Data Commons Framework Services – Robert Grossman, PhD
- The AvH Data Ecosystem – Robert Grossman, PhD
- The Cancer Genome Atlas – John Schneider, MD
- Alliance for Clinical Trials in Oncology Operations Center – Gini Fleming, MD
- Financial Analysis Research Agenda (FARA) – Elbert Huang, MD
- Cook County Colon Cancer Alliance to Reignite Prevention and Early Screening (CCEP) – Karen Kim, MD
- ACCESS-Chicago (U54) – Karen Kim, MD
- Developing an Oncology Workforce for the 21st Century (K12) – Olufunmilayo Olopade, MD
- Center for Identification and Study of Individuals with Atypical Diabetes Mellitus (U54) – Louis Phillips, MD
- University of Chicago Program for Expanded Human Immunodeficiency Testing for Disproportionately Affected Populations in Healthcare Settings in Chicago (CDPH) – David Pfirke, MD
- Therapeutic Targeting of Cardiomyocytes for Sleep Disordered Breathing (UH2) – Nanduri Prabhakar, PhD
- Methodology and Advanced Analytics Resource Center (U2) – John Schneider, MD
- Discovery and validation of neuronal enhancers associated with the development of psychiatric disorders (U54) – Andyre Rzhetsky, PhD
- ITN 2.0 Advancing Translational Science in Metabolism: Chicago (U01) – Julian Soehny, MD

During the past academic year, the Department of Medicine’s research portfolio totaled nearly $122M in Federal awards, $32.6M in industry funded grants, clinical trial earnings, and over $5M in non-federal awards. In FY19, Medicine faculty acquired 85 new or competitively renewed Federal awards resulting in a 44% increase in Federal research funding and over 1,600 original articles to further advance that goal. Additionally, the Department continued to strengthen its clinical research mission with the appointment of Hedy Kindler, MD as Associate Vice Chair for Clinical Research. Furthermore, the Department’s history of excellence in the training, development and mentorship of young scientists resulted in nearly a dozen junior faculty investigators earning their first independent NIH research funding or individual NIH K awards.

During the past academic year, the Department of Medicine’s research portfolio totaled nearly $122M in Federal awards, $32.6M in industry funded grants, clinical trial earnings, and over $5M in non-federal awards. In FY19, Medicine faculty acquired 85 new or competitively renewed Federal awards resulting in a 44% increase in Federal research funding and over 1,600 original articles to further advance that goal. Additionally, the Department continued to strengthen its clinical research mission with the appointment of Hedy Kindler, MD as Associate Vice Chair for Clinical Research. Furthermore, the Department’s history of excellence in the training, development and mentorship of young scientists resulted in nearly a dozen junior faculty investigators earning their first independent NIH research funding or individual NIH K awards.

During the past academic year, the Department of Medicine’s research portfolio totaled nearly $122M in Federal awards, $32.6M in industry funded grants, clinical trial earnings, and over $5M in non-federal awards. In FY19, Medicine faculty acquired 85 new or competitively renewed Federal awards resulting in a 44% increase in Federal research funding and over 1,600 original articles to further advance that goal. Additionally, the Department continued to strengthen its clinical research mission with the appointment of Hedy Kindler, MD as Associate Vice Chair for Clinical Research. Furthermore, the Department’s history of excellence in the training, development and mentorship of young scientists resulted in nearly a dozen junior faculty investigators earning their first independent NIH research funding or individual NIH K awards.

The 5th annual Janet D. Rowley Research Day was held on March 12, 2019 with an outstanding presentation by Ross Levine, MD, Director of the Memorial Sloan Kettering Center for Hematology’s Malignancies and Laurence Joseph Dinesen Chair in Leukemia Research. Best abstract winners in the faculty category were Drs. Wu, Lauren Gleason, Adriana Olson, and Susan Sam. In the trainee category best abstract winners were Chin-Fan Yeh, MD; Emeka Anyanwui, MD; William Parker, MD; and Carole Henry, PhD.

Recognizing the research success of two outstanding mid-level scientists the Department selected Dr. Laiteerapong and Megan Huls-Hislop-Scheetz, MD as the recipients of the 2019 Leif B. Sorensen, MD, PhD Faculty Research Award. Dr. Laiteerapong is a clinical-translational investigator who is highly experienced in designing and leading innovative clinical trials. In her new role, Dr. Laiteerapong is focusing her efforts on developing and implementing a strategy for growth of the clinical research operations. In FY19, the Department conducted more than 1,600 clinical research studies resulting in an all-time high of $30M in clinical trial earnings.

In FY19, the Department conducted more than 1,600 clinical research studies resulting in an all-time high of $30M in clinical trial earnings.
In a supportive environment focused on providing exceptional care to our patients on the South Side of Chicago, the Department of Medicine (DOM) is deeply committed to the education and training of skilled physician scientists and leaders bound for careers in academic medicine. Under the leadership of John McConville, MD, the Department’s educational programs continue to successfully prepare trainees for careers in clinical medicine, teaching, and biomedical research. Within the Internal Medicine Residency (IMR) program, 90% of the graduates pursue sub-specialty training. The 2018 fellowship match successfully matched 35 residents into many of the most competitive and premier fellowship programs in the country, including 14 who continued their training at the University of Chicago. Cardiology and gastroenterology were the most popular fellowship choices with 8 housestaff in each matching to outstanding programs across the country. Other frequent fellowship choices included pulmonary/critical care (5), hematology/oncology (4), nephrology (3) and infectious disease (2).

In FY19, Amber Pincavage, MD and Jason Alexander, MD led the Internal Medicine Intern Selection Committee. An exceptional PGY 1 class of 41 interns was successfully recruited from 1,900 applicants. IMR applicants from some of the most prestigious medical schools continue to be attracted to the rigorous clinical training, diverse patient population, outstanding faculty mentorship, and cutting edge therapeutic interventions. 20% of the new intern class is underrepresented minorities. The Physician Scientist Development Program (PSDP), which is led by Drs. James Liao and Sonia Kuper, recruited three outstanding MD/PhDs to continue their residency and fellowship training in gastroenterology, genomics and infectious disease at the University of Chicago.

Under the leadership of Christine Babcock MD, MSC, the Emergency Medicine Residency Program continues to provide outstanding clinical training, scholarship opportunities and leadership development for 16 talented Emergency Medicine residents each year. In FY19, an outstanding class of 16 PGY 1 interns was recruited from 1,400 applicants representing many of the top medical schools in the country. In addition, 25% of the new intern class are underrepresented minorities. The quality and achievements of the new intern class are remarkable. From the graduating PGY 3 residents, over 50% of the class matched in competitive fellowships across the country. The Section of Emergency Medicine continues to expand its own fellowship programs and successfully recruited top candidates for the medical education and emergency medical services fellowships while the global health medical education fellowship and administration fellowship continue to train their respective fellows. A brand new, state of the art Adult Emergency Department serves as a comprehensive stroke and STEM center, as well as one of the busiest Level I Trauma Centers in the country. This continues to set the bench- mark for outstanding educational and training environment for all learners at the institution, while serving as a much needed resource for the local community.

The Section of Dermatology endeavors to provide excellent resident and fellowship education and training while furthering research, academic dermatology and delivering comprehensive skin care to a diverse patient population. The Section hosted the annual Chicago Dermatological Society Educational Conference in December, 2018. This event included the Resident/Basic Science Lecture presented by Victoria P. Worth, MD, Chief, Division of Dermatology at Veterans Administration Hospital in Philadelphia, PA. Dr. Worth presented two lectures: the Resident/Ba sic Science Lecture on new developments in dermatopathology and the Allan L. Young Guest Lecture on new developments in pathogenesis and treatment. The Dermatology Residency Program, led by Sarah Stein, MD received 600 applications in 2018 and successfully matched outstanding candidates to each of the three available positions. The Program again joined with the IMR Program to offer a joint preliminary internal medicine/dermatology track to enable candidates to complete internship and specialty training within the institution. The Section hosted a busy elective and observer program reaching 22 Pritzker medical students and visiting medical students on the clinical dermatology elective rotation; 11 Pritzker visiting students, and 22 Pediatrics, Pathology, and Internal Medicine residents/ fellows on dermatology electives, and 1 visiting resident observer through the Center for Global Health. The Dermatopathology Fellowship Program continues to attract driven residents and pathology trained graduates seeking specialty training in dermatopathology, with 57 applicants for one training position.

In FY19, the Medicine/Pediatrics Residency Program, led by Rita Rossi-Foulkes, MD had another successful match with 4 open slots. New FY20 residents consist of graduates from the University of Michigan, Geisel School of Medicine at Dartmouth, University of Illinois College of Medicine and Chicago Medical School at Rosalind Franklin University of Medicine and Science. Among the current class are members of the Omegaphoto, Alpha and the Gold Humanism Honor Society, a Fulbright Scholar, and AmeriCorps alumni with collective interests in global health disparities, palliative care, adverse childhood experiences, adolescent and young adult oncology health care disparities, and population health. One quarter of the intern class is URM and all have been leaders at their respective medical schools and have dedicated themselves to serving vulnerable populations. In FY19, two graduates completed the LUCENT track and one resident completed the MacLean Center Fellowship in Medical Ethics. Both LUCENT graduates are working at federally qualified health centers in urban underserved settings, one in Chicago and one in Los Angeles. Two graduates remained at the University of Chicago Medicine, one graduate is serving as a Pediatric Chief Resident and the other as a fellow in the Gastroenterology, Hepatology & Nutrition.

Honors: The Department of Medicine’s extraordinary pool of talented educators continues to be recognized for their excellence in undergraduate and graduate medical education, both institutionally and nationally. In FY19, nine medicine faculty were recognized as “Favorite Faculty” by the Pritzker graduating. David T. Rubin, MD and Valerie Press, MD were honored was the 2019 John D. Arnold Mentor Award. Elbert Huang, MD was awarded the Department’s Arthur Rubenstein Mentorship Award. Within the Biological Sciences Division, Melissa Te, MD was the recipient of the Faculty Physician Peer Role Model Award; Shannon Martin, MD was the recipient of the Distinguished Educator/Mentor Award and Vinseet Arora, MD received the Francis Struass Mentorship Award. The Department of Medicine has a well-established track record of excellence in the educational training, development and mentorship of bright young trainees poised for future leadership in biomedical sciences. In this respect, senior investigators continue to provide a nurturing environment that fosters critical thinking, challenging paradigms, and a collaborative spirit geared toward maximizing the future research potential of each trainee. The DOM is the home to several nationally recognized preclinical and clinical research training programs, including 11 NIH-funded training (T32s) grants in cardiology, adult and pediatric endocrinology, oncology, respiratory biology, digestive diseases, mental health and obesity, clinical pharmacology, social science and aging, as well as the medical scientist training program. The DOM trains over 100 residents and fellows, with over 50% of its residents receiving NIH-funded training grants. In 2019, the DOM also received the Francis Straus Mentorship Award – Elbert Huang, MD Postgraduate Teaching – Hemal Nayak, MD Outstanding Emergency Medicine Faculty Member Mentorship – Anthony Kanellis, MD Undergraduate and Graduate Medical Education Awards:

AOA Award Banquet: Vineet Arora, MD
Outstanding Medical Student Mentorship – Helen Press, MD
Preclinical Teaching Awards:

Elbert Huang, MD was the recipient of the Faculty Physician Peer Role Model Award; Shannon Martin, MD was the recipient of the Distinguished Educator/Mentor Award and Vinseet Arora, MD received the Francis Struass Mentorship Award. The Department of Medicine has a well-established track record of excellence in the educational training, development and mentorship of bright young trainees poised for future leadership in biomedical sciences. In this respect, senior investigators continue to provide a nurturing environment that fosters critical thinking, challenging paradigms, and a collaborative spirit geared toward maximizing the future research potential of each trainee. The DOM is the home to several nationally recognized preclinical and clinical research training programs, including 11 NIH-funded training (T32s) grants in cardiology, adult and pediatric endocrinology, oncology, respiratory biology, digestive diseases, mental health and obesity, clinical pharmacology, social science and aging, as well as the medical scientist training program. The DOM trains over 100 residents and fellows, with over 50% of its residents receiving NIH-funded training grants. In 2019, the DOM also received the Francis Straus Mentorship Award – Elbert Huang, MD Postgraduate Teaching – Hemal Nayak, MD Outstanding Emergency Medicine Faculty Member Mentorship – Anthony Kanellis, MD Undergraduate and Graduate Medical Education Awards:

AOA Award Banquet: Vineet Arora, MD
Outstanding Medical Student Mentorship – Helen Press, MD
Preclinical Teaching Awards:

Elbert Huang, MD Postgraduate Teaching – Hemal Nayak, MD Outstanding Emergency Medicine Faculty Member Mentorship – Anthony Kanellis, MD Undergraduate and Graduate Medical Education Awards:

AOA Award Banquet: Vineet Arora, MD
Outstanding Medical Student Mentorship – Helen Press, MD
Preclinical Teaching Awards:

Elbert Huang, MD Postgraduate Teaching – Hemal Nayak, MD
The Section of Cardiology enjoyed another successful academic year with many accomplishments and innovations pertaining to the tripartite mission of patient care, research and education.

In FY19, the Section welcomed Amita Singh, MD to the faculty. Dr. Singh is a non-invasive cardiologist with expertise in diagnostic and structural echocardiography, as well as with advanced imaging modalities of cardiac CT and cardiac MR in diagnosis and treatment of cardiovascular disease. Dr. Singh’s research interests focus on the study of novel imaging techniques within cardiac imaging to improve the accuracy and diagnosis of common cardiovascular conditions. More specifically, she has focused on newer methods for analysis of diastolic function with echocardiography, and cardiac MRI imaging in patients with cardiac devices.

The Section’s clinical activities continued to grow in terms of patient volume, visits, procedures and innovative diagnostics. Within the Cardiac Imaging Program (Roberto Lang, MD – Director), the number of echocardiograms performed continued to rise and exceeded 20K studies per year. Cardiac MRI procedures also increased, reaching about 800 scans during this past year. The Electrophysiology Program (Roderick Tung, MD – EP Director) experienced a 7.5% procedural growth with more than 100 ventricular tachycardia (VT) ablations, representing one of the largest epicardial VT ablation programs in the country. The Robotic Ablation Program in collaboration with cardiac surgeon, Husein Bahdy, MD, continued to grow and remains as the only program in world to perform left ventricular (LV) summit ablation totally endoscopically. In addition, atrial fibrillation (AF) ablations (HFO cases) have more than doubled since 3 years ago. The Interventional Cardiology Program (Sandeep Nathan, MD and Alamin Shah, MD – Co-Directors) also witnessed an increase in volumes, especially in structural heart disease and pulmonary artery procedures. The Advanced Heart Failure Program (Gene Kim, MD – Interim Director) continues to grow and thrive. Over the past year, 44 transplants were performed, including 4 combined heart-liver-kidney triple transplants, 2 heart-liver double transplants, and 3 heart-kidney double transplants. The anticipated 1 year survival of heart transplant patients will be 97.3%, which represents one of the highest survival rates in the country. Within the General and Preventive Cardiology Programs (Matthew Sorrentino, MD and Tamar Polonsky, MD – Co-Directors), the outpatient clinic visits have exceeded 20K per year, while the inpatient general cardiology services had an average daily census of about 24 patients on the floor and 14 patients in the CCU. Finally, the Cardio-Oncology Program (Jeanna DeCara, MD – Director) continues to grow with plans to expand the program to offsite facilities including Orland Park, Silver Cross, River North, and Ingalls.

The Section’s research efforts continued to place them at the forefront of innovations and therapeutics and resulted in over 100 manuscripts this past year including seminal papers in the New England Journal of Medicine, JAMA, Circulation and the Journal of the American College of Cardiology and other prestigious subspecialty journals. New funding included a NH RI01 to Rongxue Wu, PhD investigating a novel regulator of cardiac vascular endothelial barrier function in heart failure. Corey Tabit, MD was awarded a $100,000 grant from the Center for Data Analysis and Computing to study the effects of social determinants of health on cardiovascular disease.

In the educational realm, the Section is home to one of the nation’s oldest National Institutes of Health-funded T32 cardiovascular research programs, recently renewed for the 45th year, as well as four ACSME accredited fellowship training programs. The 10th annual Morton F. Amosdorf Cardiovascular Sciences Research Day, chaired by Francis Alenghat, MD, PhD featured nearly 106 presentations by faculty and trainees in Cardiology, Cardiovascular Surgery, Vascular Surgery, Pediatric Cardiology, Neurosurgery, Pulmonary and Critical Care Medicine, and Emergency Medicine.

DISCOVERIES AND INNOVATIONS:

• Discovered that left bundle-branch block is often due to block within the left sided His, rather than the LBB (Upadhyay, Tung, Beaser, Aziz, Ozcan, Nayak, Broman, et al., Circulation, 2019)

• Conducted a secondary analysis of His SYNC trial comparing His bundle pacing versus conventional pacing (Upadhyay, Tung, Nayak, Beaser, Aziz, Lang, et al, Heart Rhythm, 2019)

• Completed the first randomized trial on a hemodynamic based speed optimization study in LVAD patients, the RAMP-IT UP trial. (Imamura, Kim, Sarswat, Chung, Nguyen, et al, Circulation Heart Failure, 2019)

• Determined the impact of Omega-3 fatty acid therapy on GI bleeding (Imamura, Nguyen, Kim, Sarswat, Kalantari, Smith, Chung et al, Circulation Heart Failure, 2018)

• Found that rising violent crime in Chicago (2014-2016) was associated with increased blood pressure during a temporal crime surge (Tung, Tabit, Liao, et al, American Journal of Hypertension, 2019)

• Highlighted the importance, and potential prognostic implications, of circulating monocyte and descendant macrophage phenotypes in coronary artery disease (Alenghat, Paul, Shah, Nathan et al, Experimental Physiology, 2019)

• Dr. Michael Davidson, James Liao, Matthew Sorrentino, Roderick Tung – Named as Top Cardiologists by Chicago magazine (January 2019)

• Roderick Tung, MD – Named as Deputy Editor of Journal of Cardiovascular Electrophysiology and Gaurav Upadhyay, MD and Hemal Nayak, MD were appointed editorial board members (2019)

• Sandeep Nathan, MD – Appointed to 5-year term as course co-director for Complex Cardiovascular Catheter Therapeutics (CCT) Summit

• Tamar Polonsky, MD – Served as the Vice Chair of the Evidence Review Committee for the ACC/AHA Guidelines for the Treatment of Blood Cholesterol and was chosen as the recipient of the 2019 Department of Medicine Outstanding Clinical Service Award

• Francis Alenghat, MD, PhD – Served on the Leadership Council, Academic Cardiology Section, American College of Cardiology

• Corey Tabit, MD – Recipient of the 2019 Department of Medicine Clinical Service (Patient Visits) Award

• Bryan Smith, MD – Recipient of the 2019 Department of Medicine Clinical Service (Junior Faculty) Award

• Hemal Nayak, MD – Recipient of the 2019 Department of Medicine Medical Resident Teaching Award
In FY19, Bohdan Khoumtchouk, PhD joined the Section as a Pathways to Independence Instructor. Dr. Khoumtchouk’s research concerns the emerging field of cardioinformatics, working at the nexus of bioinformatics and cardiology. His principal research focus is on creating artificial intelligence and machine learning software to organize and better understand the world’s cardiovascular disease knowledge (text and data) at a massive scale—working at the multidisciplinary interface of healthcare, algorithm design, software engineering, integrative bioinformatics, multi-omics, natural language processing, and statistical learning. Dr. Khoumtchouk was previously involved in the NHBLI Trans-Omics for Precision Medicine (TOPMed) Whole Genome Sequencing Program (Atherosclerosis Working Group). Dr. Khoumtchouk previously served as an American Heart Association (AHA) Postdoctoral Fellow in the Department of Biology and Department of Medicine (Division of Cardiovascular Medicine) at Stanford University.

In FY19, Dr. Grossman developed foundational software services called data commons framework services that allowed National Cancer Institute (NCI) to develop the first cancer data ecosystem for cancer researchers, which is called the NCI Cancer Research Data Commons. Today, these framework services support an ecosystem that contains genomic, proteomic, imaging and clinical data and a growing number of software applications supporting cancer research. During the past academic year, through work with various collaborators, these framework services have also been used to develop data commons to further research in other areas, including cardiovascular research (supported by NHLBI), birth defects (supported by NIDDK), the framework services also enable data to be integrated and analyzed from two or more of these separate systems as long as the researcher is authorized to access data from each of them.

During the past academic year, Dr. Rzhetsky and Alif Khan, PhD, led a study that suggested a significant link between exposure to environmental pollution and an increase in the prevalence of neuropsychiatric disorders. Based on analysis of large population data sets from U.S. and Denmark their study found that poor air quality is associated with increased rates of bipolar disorder and major depression in both countries. Using U.S. health insurance database of 133 million individuals with 11 years of inpatient and outpatient claims for neuropsychiatric disorders, they compared the geo-incidence of claims to measurements of 87 potential air pollutants from the United States Environmental Protection Agency. The counties with the worst air quality had a 27 percent increase in bipolar disorder and 6 percent increase in major depression when compared to those with the best air quality. The team also found a strong association between polluted soil and an increased risk of personality disorder. In an effort to validate their findings, Dr. Rzhetsky and his team collaborated with Denmark-based researchers to analyze Danish national treatment registers with data from 1.4 million people born in Denmark between 1979 and 2002. The researchers examined the incidence of neuropsychiatric disorder in Danish adults who had lived in areas with poor environmental quality up to their tenth birthdays. The associations the team found, especially for bipolar disorder, mirrored those in the United States: a 29 percent increase for those in counties with the worst air quality. Using this more specific Danish data, the team determined that early childhood exposures correlated even more strongly with major depression (a 50 percent increase); with schizophrenia (a 148 percent increase); and with personality disorders (a 162 percent increase) over individuals who grew up in areas with the highest quality air. Findings from this study were published in PLOS Biology, 2019.

In new projects, Dr. Rzhetsky and Professor Pedro Lopes from the Department of Computer Sciences, are developing a mobile decision making interface for physicians in Nigeria with inadequate internet infrastructure, and no electronic medical records. This innovative project will build a mobile system running on conventional Android devices to access medical records and perform queries over encrypted text messages, as well as access real-time information on the spread of diseases such as contagious infections. Funding for this project was awarded from the University of Chicago Center for Data and Computing Data Science Discovery Grant Program.
On August 1, 2019 Diana Bolotin, MD, PhD, associate professor of medicine, was appointed as Chief of the Section of Dermatology. Dr. Bolotin served in an interim capacity since March 2018 during which time she demonstrated remarkable leadership, fortitude and thoughtful academic vision. Under the leadership of Dr. Bolotin, the Section has several accomplishments including the successful recruitment of two new faculty members, clinical growth at both onsite and at UCM satellite clinics and the expansion of the Section’s research portfolio and associated high impact discoveries. As a fellowship-trained Mohs micrographic surgeon, Dr. Bolotin has expertise in a wide range of medical and surgical treatments within cutaneous oncology, including Mohs surgery and excision treatments of cutaneous neoplasms. Her clinical and academic interests span the field of cutaneous oncology and resident education. Having graduate training in skin biology, she is particularly interested in translational research of carcinogenesis, novel skin cancer therapies and advocacy. Dr. Bolotin is a recipient of the Medical Dermatology Society Mentorship Award, several Chicago Dermatologic Society research awards and the American Society for Dermatologic Surgery Cutting Edge Research Award, and has participated in numerous clinical trials within the field of procedural dermatology. She has authored multiple peer-reviewed journal articles and textbook chapters within the field, as well as presented at regional and national dermatology meetings. She serves on the editorial boards of the Journal of the American Academy of Dermatology and Dermatologic Surgery and is an Associate Editor for Archives of Dermatological Research. Dr. Bolotin is a member of the American Academy of Dermatology, Chicago Dermatologic Society, Women’s Dermatologic Society, Society for Investigative Dermatology and American Society of Dermatologic Surgery. She is a co-chair of the ASDS Audit Committee and Research Work Group and is a fellow member in the American College of Mohs Surgery.

In FY19, the Section welcomed two new faculty members, Mark Hoffman, MD and Oluwakemi Onajin, MD. Dr. Hoffman, associate professor of medicine, is an expert in autoimmune skin diseases with specific expertise in neutrophilic dermatoses. Dr. Onajin, assistant professor of medicine, focuses her work on general dermatology, dermatologic procedures, and dermatopathology with particular interest in the field of autoimmune and rheumatologic skin diseases. She, along with Dr. Hoffman, implemented a weekly Autoimmune Skin Disorder (AISD) specialty clinic that is coordinated with colleagues in the Section of Rheumatology.

As one of the top programs in the nation focused on understanding, diagnosing, and treating the skin and its diseases, the Section’s clinical growth held steady in FY19, most notably with its dermato-pathology and Mohs surgery clinical volumes. The new AISD specialty clinic, run by Dr. Hoffman and Dr. Onajin, has rapidly become a sought after training option for residents interested in sub-specialty training in rheumatology. Under the leadership of Dr. Bolotin, the Section had several accomplishments in FY19. The residency program aims to continue to build the training slot with top-notch candidates. Dr. Stein successfully navigated numerous changes to ACGME program requirements, pioneered significant changes to the residency curriculum to meet the needs and best interests of the residents, and tirelessly advocated for resident education. Dr. Adena Rosenblatt, Chief of the Dermatology Residency Program, succeeded Dr. Stein as program director in FY20. The residency program aims to continue to build on our achievements by providing a top-notch, well-rounded dermatologic education as well as a collegiate and transparent learning environment to our trainees. The Section’s one-year fellowship program in Dermatologic Surgery continues to be a sought after training program consistently filling the training slot with top-notch candidates.

• Raised $1 million to support the training needs of new nurse practitioners
• Awarded a fellowship in the 2019-2020 Medical Dermatology Society Mentorship Program

Dr. Diana Bolotin, MD, PhD

PROFESSIONAL:

Diana Bolotin, MD, PhD

MARKED FOR PROMOTION:

Mark Hoffman, MD

Oluwakemi Onajin, MD

PROFESSIONALS:

Nia Lagace, MD

Nicholas Botta, MD, MPH, PhD

Diana Akobundu, MD, PhD (Chief)

Adena Rosenblatt, MD

Sarah Stein, MD

CLINICAL ASSOCIATES:

Julianito Roldan-Medina, MD

Jake Kuo, MD

Krisch (Jun), MD

Nasu (Jo), MD

Edward Hsu, MD

Achala Bhalca

Alvaro Ruiz

Devashish Garg, MD, PhD

Rudolf Mandl

CHRISTIANA MEDICAL CENTER:

New FY20 Faculty

Pediatric Dermatology:

• Sarah Stein, MD – Appointed Associate Editor for Archives of Dermatological Research and appointed co-chair of American Society for Dermatologic Surgery Research Work Group

• Adena Rosenblatt, MD – Appointed Associate Editor of Pediatric Dermatology

• Christopher R. Shea, MD – Recognized by Chicago Magazine (January 2019) as a Top Doctor

• Oluwakemi Onajin, MD – Awarded a fellowship in the 2019-2020 Medical Dermatology Society Mentorship Program

• Yoo-Ying Hu, PhD – Elected to the Biological Sciences Division Faculty Advisory Committee for Basic Biological Research and elected President of the American Society for Photobiology

• Dena Elkeeb, MD (Dermatopathology Fellow) – Received the World Cup Trainee Award at the 22nd Joint Meeting of the International Society of Dermatopathology for her oral presentation, “Malignant Melanoma in Young African Americans Mimicking an Epithelioid Hemangioendothelioma.”

• Keyooman Soomani, MD – Named as the Allan L. Lorincz Professor in Dermatology

• Diana Bolotin, MD, PhD – Appointed Associate Editor for Archives of Dermatological Research and appointed co-chair of American Society for Dermatologic Surgery Research Work Group

• Sarah Stein, MD – Appointed Associate Editor of Pediatric Dermatology

• Christian R. Shea, MD – Recognized by Chicago magazine (January 2019) as a Top Doctor

• Oluwakemi Onajin, MD – Awarded a fellowship for the 2019-2020 Medical Dermatology Society Mentorship Program

• Yoo-Ying Hu, PhD – Elected to the Biological Sciences Division Faculty Advisory Committee for Basic Biological Research and elected President of the American Society for Photobiology

• Dena Elkeeb, MD (Dermatopathology Fellow) – Received the World Cup Trainee Award at the 22nd Joint Meeting of the International Society of Dermatopathology for her oral presentation, “Malignant Melanoma in Young African Americans Mimicking an Epithelioid Hemangioendothelioma.”

• Keyooman Soomani, MD – Named as the Allan L. Lorincz Professor in Dermatology

• Diana Bolotin, MD, PhD – Appointed Associate Editor for Archives of Dermatological Research and appointed co-chair of American Society for Dermatologic Surgery Research Work Group

• Sarah Stein, MD – Appointed Associate Editor of Pediatric Dermatology

• Christian R. Shea, MD – Recognized by Chicago magazine (January 2019) as a Top Doctor

• Oluwakemi Onajin, MD – Awarded a fellowship for the 2019-2020 Medical Dermatology Society Mentorship Program

Oluwakemi Onajin, MD

Dr. Diana Bolotin

Dr. Mark Hoffman

Dr. Oluwakemi Onajin

Dr. Diana Bolotin

Dr. Diana Bolotin

Dr. Diana Bolotin

Discovered a role for RNA methylation in melanoma tumor growth and response to PD-1 inhibitor therapy (Yang, Wei, Cui, Park, Shah, Deng., and His, Nature Communications, 2019)

Identified the role of RNA methylation and its demethylation in melanoma tumorigenesis and resistance to anti-PD-1 immunotherapy (He, et al, Nature Communications, 2019)

Published a quality-improvement paper demonstrating a novel modification for Mohs embedding that aids in early and complete margin assessment during the procedure (Napolitano, Kelly, Ollides and Bolotin, Dermatologic Surgery, in press)

Identified an increased density of peritumoral CD8+ lymphocytes in a subset of melanomas. Tumor PD-L1 expression correlated with tumor as well as peritumoral CD8+ and FoxP3+ lymphocytes, supportive of an adaptive immune response (Chopak, Shea et al, Human Pathology, 2018)

Investigated how hydroxychloroquine can be considered as a treatment option for alopecia areata in children (Yun, Silverberg, Stein, Pediatric Dermatology, 2018)

Identified the role of RNA methylation and its demethylation in melanoma tumorigenesis and resistance to anti-PD-1 immunotherapy (He, et al, Nature Communications, 2019)

Published a quality-improvement paper demonstrating a novel modification for Mohs embedding that aids in early and complete margin assessment during the procedure (Napolitano, Kelly, Ollides and Bolotin, Dermatologic Surgery, in press)

Identified a role for RNA methylation in melanoma tumor growth and response to PD-1 inhibitor therapy (Yang, Wei, Cui, Park, Shah, Deng., and His, Nature Communications, 2019)

DISCOVERIES AND INNOVATIONS:

ACCOMPLISHMENTS AND HIGHLIGHTS:

2019 ANNUAL REPORT 21
One of the major accomplishments for the Section in FY19 was the development of an Opioid Overdose and Naloxone Distribution Program, spearheaded by Paul Quincy Moore, MD. This multidisciplinary effort, involving physicians, nursing, and pharmacy, represents one of many initiatives implemented by the Section to combat the effects of the opioid epidemic. The project involves identifying patients at risk of death due to opioid overdose and educating the patient and/or family members on the use of naloxone post-arrest, respectively. Aasim Padela, MD, PhD continued his research to improve American Muslim cardiopulmonary resuscitation for improving survival following cardiac arrest. He also continued his work in pharmacological induced hypothermia as a novel therapeutic consequence of intermittent hypoxia, and demonstrated that intermittent hypoxia acts through oxidative stress to dysregulate hippocampal adult neurogenesis. Garcia, PhD, et al., Journal of Neuroscience, 2018.

Dr. Daniel Bickley focuses his work on medical education utilizing team-based learning to improve student performance. He continued his research to improve American Muslim cardiopulmonary resuscitation for improving survival following cardiac arrest. He also continued his work in pharmacological induced hypothermia as a novel therapeutic consequence of intermittent hypoxia, and demonstrated that intermittent hypoxia acts through oxidative stress to dysregulate hippocampal adult neurogenesis. Garcia, PhD, et al., Journal of Neuroscience, 2018.

Dr. Nathan Olson, MD, the Section's Emergency Medicine Research Residency Program (Christine Babcock, MD - Director) continues to attract trainees from outstanding medical schools, many of whom are successful securing sought after fellowship positions after completing residency training. During the past year, the Section introduced several new training programs and successfully filled each slot, including an International Medicine Education Fellowship, the first of its kind in the nation directed by Keegan Checkett, MD and an Administrative Fellowship under the direction of Thomas Spiegel, MD. The Section also received ACGME approval for an EMS Fellowship, the first training program of its type in the state of Illinois. Under the direction of Dr. Tataris, this year Pritzker medical students this past year.
In FY19, Antonio Bianco, MD, PhD and Michelle Lemelman, MD joined the Section. Dr. Bianco, professor of medicine, is an internationally rec- ognized expert in the study of thyroid hormone action, particularly in the local control of thyroid hormone activation by deiodinase enzymes. He is Paul President of the American Thyroid Asso- ciation and a former recipient of the Van Meter Award from the American Thyroid Association, and the Rosalind-Riggs-Rivers Medal from the British Thyroid Association, and the LATPS Prize from the Latin-American Thyroid Society. Dr. Lemelman, assistant professor of medicine, is a pediatric endocrinologist and educator, with expertise in pediatric thyroid disease and pediatric diabetes. The Section’s internationally recognized inves- tigators continue to make important scientific contributions that lead to a better understanding of diabetes, thyroid disease, sleep and polycystic ovary disease. In FY19 Dr. Philippson was awarded a multi-institutional, 5 year NIH U54 totaling $12.5M, to pursue the identification and study of new cases and a high impact NIH U54 awarded to Louis Philippson, MD, PhD to develop a center for the identification and study of individuals with atypical diabetes mellitus.

One of the unique aspects of the Section is the fully integrated nature of the Adult and Pediatric train- ing programs. With two NIH T32 grants to support training in pediatric endocrinology research and integrated clinical and basic endocrinology, there is no other such program in the United States. The Endocrinology T32 Training Program (Drs. Bell and Refetoff – PI’s) completed its 45th year of training endocrinology researchers and a Pediatric Endocrinology T32 (Dr. Philippson – PI) continues to train pediatric endocrinologists in academic research. The Committee on Molecular Metabo- lism and Nutrition (Matthew Brady, PhD – Chair) successfully graduated two doctoral students.

Under the direction of Ronald Cohen, MD, the Section of Endocrinology, Diabetes & Metabolism (EDM) continues to be at the forefront for innovative diabetes research and unparalleled patient care and educational programs. The Section’s most notable accomplishments in FY19 include the recruitment of two new faculty and

**DISCOVERIES AND INNOVATIONS:**
- Demonstrated for the first time a transgenerational inheritance of an epigenetic effect (three generations) in males (Anselmo, Refetoff, Dumbravec, et al., Thyroid, 2019)
- Developed national guidelines for the evaluation and treatment of hypothyroidism (Martin, Anderson, Chang, Ehrmann, Rosenfeldt, et al., Journal of Clinical Endocrinology & Metabolism, 2018)
- Reprogrammed human T cell function and specificity with non-viral genome targeting providing preclinical evidence that non-viral genome targeting can enable rapid and flexible experimental manipulation and therapeutic engineering of primary human immune cells (Roth, Puig-Saus, …, Greely, Marson et al., Nature, 2018)
- Provided new insights into hypothyroidism in the brain (Le, Bianco, et al., Journal of Clinical Investigation, 2019)
- Showed that human islets expressing HNF1A variant have defective B cell transcriptional regulatory networks (Haiyur, Tong, …, Philippson, Powers, et al., Journal of Clinical Investigation, 2018)

**ACCOMPLISHMENTS AND HIGHLIGHTS:**
- Louis Philippson, MD, PhD – Served as President for Medicine and Science, American Diabetes Association and delivered the Marble Lectureship at the Joslin Diabetes Center and Beth-israel Deaconess at Harvard Medical School
- George Bakris, MD – Named as the top hypertension expert in the world by Expertscape
- David Ehrmann, MD – Named by Chicago magazine as a 2019 Top Doctor and presented the Walter Fullerton Lectureship at Icahn School of Medicine at Mt. Sinai Hospital
- Antonio Bianco, MD, PhD – Invited plenary speaker at the 18th Congress Paulista de Endocrinologia (Sao Paulo, Brazil)
- Eve Van Cauter, PhD – Appointed as a member of the scientific advisory board of the German Research Center for Environmental Health for a 5-year period starting October 2018
- Tamara Vokes, MD – Selected by the Endocrine Society for the Women in Endocrinology 2019 collection in celebration of International Women’s Day on March 8, 2019 for her work entitled “Recombinant Human Parathyroid Hormone Effect on Health-Related Quality of Life in Adults With Chronic Hypoparathyroidism”, Journal of Clinical Endocrinology & Metabolism, 2018, February
- Susan Sam, MD – Recipient of the 2019 Department of Medicine Research Day Best Abstract Award (Translational Science) for her poster entitled “Impact of Obstructive Sleep Apnea and Sleep Duration on Glucose Tolerance and Beta Cell Function in Adults with Prediabetes or Untreated Type 2 Diabetes”
In FY19 the Section continued to expand its clinical programs both on the University of Chicago Medicine (UCM) campus and at offsite locations in the southwest suburbs and northwestern Indiana. Section physicians also continued to see patients in clinical sites in downtown Chicago, Merrillville, Schererville, Hinsdale, and Orland Park. This past year, the Section recorded over 1,500 visits at the Orland Park Center for Advanced Care, and over 1,200 visits at the Suite E Huron location in downtown Chicago. The Section also began performing endoscopic procedures at a 3rd location, 900 N Michigan Avenue Surgery Center, which has allowed GI physicians the ability to provide comprehensive care to the IBD patients who are seen at 150 E Huron. The Section is in the planning phases to grow the inflammatory bowel disease (IBD) and obesity medicine programs in downtown Chicago in the coming years, and looks to increase other digestive diseases specialties after that.

In other clinical programs, the Liver Transplant Program (Michael Charlton, MD – Co-Director) continues to flourish. In FY19, the first triple transplants of a heart, liver and kidney were performed at UCM on two patients. New patient volumes in the Metabolic and Fatty Liver Clinic and Liver Tumor Clinic (Anjana Pillai, MD – Director) have continued to grow significantly. The Center for Endoscopic Research and Therapeutics (Hsing Waxman, MD – Director) has continued to thrive and provide new unique services. In FY19, Christopher Chapman, MD expanded endoscopic treatments for the obesity program, performing endoscopic suturing, and endoscopic balloon procedures for obesity management. The Inflammatory Bowel Disease Center (Russell Cohen, MD – Director) also saw volume increases particularly at Orland Park and Tinley Park facilities. The Section was awarded several important grants and published multiple high impact publications during the past academic year. New NIH R01s were awarded to Drs. Eugene Chang, Sonia Kupfer, Andrew Aronsohn, and Sushila Dalal, PhD. Dr. Chang successfully renewed his NIH R01 related to the immunology of celiac disease and primary sclerosing cholangitis. Dr. Kim, Director of the Center for Asian Health Research and recently received approval for a federal RC2 grant, the Colon Cancer Neoslot Grant, and a novel collaboration with the Chinese University of Hong Kong representing a major new multi-national microbiome initiative. Dr. Jabl successfully renewed her NIH R01 related to the development of diet-induced obesity through disruption of hepatic circadian rhythms by the gut microbiome. Dr. Chang and Dr. Rubin also led a multi-institutional effort including Argonne, Marine Biological Laboratory and the Mayo Clinic, and recently received approval for a federal RC2 award, the Colon Cancer Neoslot Grant, and a novel collaboration with the Chinese University of Hong Kong representing a major new multi-national microbiome initiative. Dr. Jabl successfully renewed her NIH R01 related to the immunology of celiac disease and primary sclerosing cholangitis. Dr. Kim, Director of the Center for Asian Health Research and recently received approval for a federal RC2 grant, the Colon Cancer Neoslot Grant, and a novel collaboration with the Chinese University of Hong Kong representing a major new multi-national microbiome initiative.

The Section also began performing endoscopic procedures at a 3rd location, 900 N Michigan Avenue Surgery Center, which has allowed GI physicians the ability to provide comprehensive care to the IBD patients who are seen at 150 E Huron. The Section is in the planning phases to grow the inflammatory bowel disease (IBD) and obesity medicine programs in downtown Chicago in the coming years, and looks to increase other digestive diseases specialties after that.

In other clinical programs, the Liver Transplant Program (Michael Charlton, MD – Co-Director) continues to flourish. In FY19, the first triple transplants of a heart, liver and kidney were performed at UCM on two patients. New patient volumes in the Metabolic and Fatty Liver Clinic and Liver Tumor Clinic (Anjana Pillai, MD – Director) have continued to grow significantly. The Center for Endoscopic Research and Therapeutics (Hsing Waxman, MD – Director) has continued to thrive and provide new unique services. In FY19, Christopher Chapman, MD expanded endoscopic treatments for the obesity program, performing endoscopic suturing, and endoscopic balloon procedures for obesity management. The Inflammatory Bowel Disease Center (Russell Cohen, MD – Director) also saw volume increases particularly at Orland Park and Tinley Park facilities. The Section was awarded several important grants and published multiple high impact publications during the past academic year. New NIH R01s were awarded to Drs. Eugene Chang, Sonia Kupfer, Andrew Aronsohn, and Sushila Dalal, PhD. Dr. Chang successfully renewed his NIH R01 related to the immunology of celiac disease and primary sclerosing cholangitis. Dr. Kim, Director of the Center for Asian Health Research and recently received approval for a federal RC2 grant, the Colon Cancer Neoslot Grant, and a novel collaboration with the Chinese University of Hong Kong representing a major new multi-national microbiome initiative. Dr. Jabl successfully renewed her NIH R01 related to the immunology of celiac disease and primary sclerosing cholangitis. Dr. Kim, Director of the Center for Asian Health Research and recently received approval for a federal RC2 grant, the Colon Cancer Neoslot Grant, and a novel collaboration with the Chinese University of Hong Kong representing a major new multi-national microbiome initiative.
BREAKOUT STORIES:

Under the leadership of Deborah Burnet, MD, MAPP, the Section of General Internal Medicine (GIM) comprises highly talented faculty dedicated to providing exceptional clinical care, teaching and leading our educational programs, and conducting innovative, real-world research addressing health disparities. The Section is home to several outstanding multidisciplinary academic centers and programs including the MacLean Center for Clinical Medical Ethics, Bucksbaum Institute for Clinical Excellence, Chicago Center for Diabetes Translation Research, and the Center for Chronic Disease Research and Policy.

In FY19, GIM faculty were recognized nationally for their outstanding academic contributions. Marshall Chin, MD, MPH, was elected to the Association of American Physicians, reflecting his extraordinary contributions towards reducing health disparities nation-wide, with a focus on diabetes. Monica Vela, MD, was selected by the National Latino Medical and Advocates Association as a Lois H. and Abraham Cohen Latino Medical Society Mentor of the Year and also honored with the University of Chicago Diversity Leadership Award. Vineet Arora, MD, MAPP, was named a Josi-ah Macy Foundation Faculty Scholar to advance care and learning through creation of inter-professional clinical learning environments. Several GIM faculty assumed new institutional leadership roles: Hania Binder, MD, was appointed as Dean for Medical Education for the Pritzker School of Medicine. Dr. Arora assumed the role as Associate Chief Medical Officer for the Clinical Learning Environment; Adam Chil, MD, was named Associate Dean for Medical School Academics, and Amber Pincavage, MD, became Internal Medicine Clerkship Director.

Under the leadership of Deborah Burnet, MD, MAPP, the Section of General Internal Medicine (GIM) comprises highly talented faculty dedicated to providing exceptional clinical care, teaching and leading our educational programs, and conducting innovative, real-world research addressing health disparities. The Section is home to several outstanding multidisciplinary academic centers and programs including the MacLean Center for Clinical Medical Ethics, Bucksbaum Institute for Clinical Excellence, Chicago Center for Diabetes Translation Research, and the Center for Chronic Disease Research and Policy.

In FY19, GIM faculty were recognized nationally for their outstanding academic contributions. Marshall Chin, MD, MPH, was elected to the Association of American Physicians, reflecting his extraordinary contributions towards reducing health disparities nation-wide, with a focus on diabetes. Monica Vela, MD, was selected by the National Latino Medical and Advocates Association as a Lois H. and Abraham Cohen Latino Medical Society Mentor of the Year and also honored with the University of Chicago Diversity Leadership Award. Vineet Arora, MD, MAPP, was named a Josi-ah Macy Foundation Faculty Scholar to advance care and learning through creation of inter-professional clinical learning environments. Several GIM faculty assumed new institutional leadership roles: Hania Binder, MD, was appointed as Dean for Medical Education for the Pritzker School of Medicine. Dr. Arora assumed the role as Associate Chief Medical Officer for the Clinical Learning Environment; Adam Chil, MD, was named Associate Dean for Medical School Academics, and Amber Pincavage, MD, became Internal Medicine Clerkship Director.

School of Medicine, teaching over 130 residents and serving in a variety of leadership roles. Under leadership of David Liebovitz, MD, the Section successfully launched the new Medical Informatics Fellowship in FY19, including a Master of Science in Biomedical Informatics. Internal Medicine residency graduates, Michael Cu, MD, and Sarah Feenstra, MD, are the first two fellows.

Under direction of Drs. Huang and Laiterapong, the Center for Chronic Disease Research and Policy held its 6th annual symposium, focused on “Advancing Population Health through Medical Education, Health Policy, and System Change.”

• Discussed how to ensure fairness in big data machine learning algorithms to advance health equity (Chin, et al., Annals of Internal Medicine, 2018)

• Argued that clinical medical ethics is a discipline distinct from bioethics which addresses key issues such as tru-th telling, informed consent, confidentiality, surrogate decision making, and end-of-life care (Singlet, et al., Journal of Clinical Ethics, 2019)

• Reported on how ‘photo-voice’ can support diabetes self-care among Latino adults (Baig, Chin, Burnet, et al., Translational Behavioral Medicine, 2019)

• Discussed how to ensure fairness in big data machine learning algorithms to advance health equity (Chin, et al., Annals of Internal Medicine, 2018)

• Discussed how to ensure fairness in big data machine learning algorithms to advance health equity (Chin, et al., Annals of Internal Medicine, 2018)

• Discussed how to ensure fairness in big data machine learning algorithms to advance health equity (Chin, et al., Annals of Internal Medicine, 2018)

• Discussed how to ensure fairness in big data machine learning algorithms to advance health equity (Chin, et al., Annals of Internal Medicine, 2018)
Under the leadership of Yoav Gilad, PhD, the Section of Genetic Medicine demonstrated overwhelming research success in the past year. Remarkably nearly every member of the Section’s faculty is supported by extramural funding for their innovative translational genetic research. Noteworthy was the award of the prestigious Sloan Fellowship to Mengjie Chen, PhD, which is given to early-career scientists and scholars whose achievements and potential place them among the next generation of scientific leaders.

Joining the Section of Genetic Medicine in FY19 was Xuanyao Liu, PhD, assistant professor of medicine. Dr. Liu’s lab focuses on developing statistical methods for analyzing multi-omics data, in order to understand the impact of genetic variation on gene regulation and complex traits. Areas of interest include detecting trans gene regulation, building gene regulatory networks, disease gene mapping and predicting polygenic risk scores.

In FY19, the Section’s research portfolio totaled over $6.0M with the addition of many new awards. Dr. Gilad was the recipient of a NIH R35 to elucidate the genomic mechanisms that control spatially and temporally dynamic gene expression programs within and between species. Anindita Basu, PhD was awarded a NIH R01 investigating the co-transcriptional impact of genetic variation on gene regulation and disease. With funding through multiple new federal subawards, Hae Kyung Im, PhD continued her work on utilizing quantitative and computational methods to uncover hidden patterns in data. In early FY20, Dr. Gilad and Dr. Barreiro were awarded NIH R01’s to develop iPSC’s for comparative genomics in primates and to characterize the impact of Yesinia pestis to the phenotypic evolution of the human immune system, respectively. Dr. Basu also received a three year $3M award from the Hemsley Trust to create a human gut cell atlas of the ileum and proximal colon in healthy subjects and patients of Ileal Colonic Crohn’s disease to identify cell type-, disease- and stage-specific markers that will allow insights into the molecular mechanisms of the disease.

Dr. Xuanyao Liu

Dr. Mengjie Chen

Dr. Anindita Basu

Dr. Luis Barreiro

Dr. Yoav Gilad

Dr. Mengjie Chen
The inpatient and ambulatory oncology palliative medicine programs continue to grow steadily under the direction of Monica Malec, MD who is leading the first integrated mesothelioma program in palliative medicine in the United States. Sandy Tun, MD is collaborating with surgical oncology to integrate palliative medicine services into the care plan for persons undergoing evaluation for hyperthermic intraperitoneal chemotherapy. The Cardiac Palliative Care Service (Charles Rhode, MD - Director) has seen growth as it provides support to patients with advanced heart failure, including patients with left ventricular assist devices. Within the outpatient Geriatrics programs, the nationally recognized Successful Aging and Frailty Evaluation (SAFE) Clinic (Katherine Thompson, MD and Megan Huisingh-Scheetz, MD, MPH – Co-Directors) continues to attract excellent candidates from across the country. Dr. Williams continues to direct the Geriatrics and Aging Through Transitional Environments (GATE) Program for medical students. With grant support from the Coleman Foundation, and in partnership with other academic medical centers in Chicago, Dr. Levine created an immersion course in palliative medicine for advanced practice nurses and physician assistants and a longitudinal training program in primary palliative medicine skills for physicians, nurses, chaplains, and social workers. Both courses include communication training led by VitalTalk trained faculty Drs. Williams and Tun. The Section also established an Aging Cross-roads Lecture Series during S19 and Rounds that features visiting speakers who participate in aging research within and outside the BSO.

- Developed an innovative model using telemonitoring to provide geriatrics education for nurses and social workers at skilled nursing facilities. (Gleason, Thompson, Martinchek et al., Geriatric Nursing, 2019)
- Showed that Extension for Community Healthcare Outcomes (ECHO) offers a novel strategy for improving community HCPs’ geriatrics self-efficacy and frequency of geriatric-centered practice behaviors. (Thompson, Kostas, Levine, et al., Gerontology & Geriatrics Education, 2019)

**Innovative initiatives within its clinical, research and educational programs in FY19.**

- Developed a mesothelioma Research Pilot Award to study the association of symptoms, quality of life, and physical performance status in patients with malignant pleural mesothelioma.
- Successfully secured renewal funding ($3.5 million over 5 years) in FY19. The SHARE Network aims to improve care and outcomes of older adults by integrating geriatrics with primary care, as well as maximizing patient and family engagement, on the South Side of Chicago. SHARE utilizes technology from Project ECHO to provide instruction in geriatrics and palliative medicine principles to community-based clinicians in FQHCs and other clinics and skilled nursing facilities in the post-acute care network. In FY19, Dr. Thompson led a conference on the University of Chicago campus that brought together other ECHO-Geriatrics sites from the United States and Canada. As part of the SHARE initiative, the Dementia Resource Champions, led by Shelle Williams, MD, was established to train faith leaders on Chicago’s Southside as educators in the faith communities and to establish dementia support groups in their churches. This pilot project has resulted in the development of 2 new caregiver support groups on the Chicago South Side with 5 new locations currently undergoing the training. Also noteworthy in FY19 was the establishment of research collaborations for junior faculty through the Carol and George Abramson Pilot Awards for Aging and Longevity. As result, several faculty are conducting pilot projects through this mechanism: Dr. Martinchek is studying the effects of high intensity walking in older adults in the pre-op period; Dr. Huisingh-Scheetz is piloting a technology-based exercise and social engagement program (ENGAGE) utilizing smart voice in older adults and their caregivers; Lauren Gleason, MD (with Tereisita Hogan, MD) is evaluating older adults who present to the ER after a fall with objective measures of function and timely physical therapy evaluations using the Falling Older Adults Management (FOMA) protocol. In other funding, Dr. Malic received a Mesothelioma Research Pilot Award to study the association of symptoms, quality of life, and physical performance status in patients with malignant pleural mesothelioma. Within the Section’s educational programs, the Hospice and Palliative Medicine Fellowship (Charles Rhode, MD – Program Director) and Geriatric Medicine Fellowship (Katherine Thompson, MD – Program Director) continue to attract excellent candidates from across the country. Dr. Williams continues to direct the Geriatrics and Aging Through Transitional Environments (GATE) Program for medical students. With grant support from the Coleman Foundation, and in partnership with other academic medical centers in Chicago, Dr. Levine created an immersion course in palliative medicine for advanced practice nurses and physician assistants and a longitudinal training program in primary palliative medicine skills for physicians, nurses, chaplains, and social workers. Both courses include communication training led by VitalTalk trained faculty Drs. Williams and Tun. The Section also established an Aging Crossroads Lecture Series during S19 and Rounds that features visiting speakers who participate in aging research within and outside the BSO.

**A C C O M P L I S H M E N T S A N D H I G H L I G H T S :**

- **Stacie Levine, MD** - Named as a Chicago Magazine Top Doctor
- **Dana Brauner, MD** - Appointed as a Budnickbaum Institute for Clinical Excellence Senior Faculty Scholar
- **Megan Huislingh-Scheetz, MD** - Recipient of the 2019 Department of Medicine Leif B. Sorenson Faculty Research Award and served as a symposium speaker at the 2019 Annual International Conference on Frailty and Sarcopenia Research Meeting. Miami Beach, FL
- **Lauren Gleason, MD** - Recipient of the 2019 Best Abstract Award (Clinical Research) at the Department of Medicine Research Day and accepted into the MERITS Faculty Scholars Program
- **Sandy Tun, MD** - Graduate of the MERITS Faculty Scholars Program
- **Charles Rhode, MD** - Recipient of the Heartland Scholarship from the American Academy of Hospice and Palliative Medicine and accepted into the MERITS Faculty Scholars Program

**D I S C O V E R I E S A N D I N N O V A T I O N S :**

Endnotes:
- The Cardiac Palliative Care Service (Charles Rhode, MD - Director) has seen growth as it provides support to patients with advanced heart failure, including patients with left ventricular assist devices. Within the outpatient Geriatrics programs, the nationally recognized Successful Aging and Frailty Evaluation (SAFE) Clinic (Katherine Thompson, MD and Megan Huisingh-Scheetz, MD, MPH – Co-Directors) continues to offer a platform for research and teaching efforts. Michelle Martinchek, MD continues to lead collaborative initiatives between geriatrics, nephrology and transplant surgery by performing comprehensive geriatric assessments on older adults under evaluation for kidney transplant. The Specialized Oncology Care & Research in the Elderly (SOCARE) clinic (Selina Chow, MD and James Wallace, MD – Co-Directors) remains an integral centerpiece to geriatric oncologic care in Chicago. A new initiative in FY19 was the creation of the pharmacy-led Hypertension Management Clinic (Za-Kostaas, MD - Medical Director), in collaboration with William Madden, Pharm D. Research efforts by GPM faculty and staff are supported by a variety of external sources and includes investigations that range from important geriatrics syndromes to ethics and end of life care. Dr. Huisingh-Scheetz continues to study the relationship between clinical frailty markers and wearable, research-grade, activity sensors (accelerometers) and has applied new methods to analyzing continuous data using nationally representative datasets including the National Social Life, Health and Aging Study and the National Health and Nutrition Examination Survey. Given her accelerometry, frailty, and technology expertise, she has been invited to collaborate on numerous projects in other departments and sections (Thracic Surgery, ENT, Sociology, NORD, Endocrinology, Pulmonology), and she was recently named the Associate Director of Aging Research in GPM. Dr. Thompson serves as the principal investigator of a HESA-funded Geriatric Workforce Enhancement Program which created the South Side Healthy Aging Resource Experts (SHARE) Network and successfully secured renewal funding ($3.5 million over 5 years) in FY19. The SHARE Network aims to improve care and outcomes of older adults by integrating geriatrics with primary care, as well as maximizing patient and family engagement, on the South Side of Chicago. SHARE utilizes technology from Project ECHO to provide instruction in geriatrics and palliative medicine principles to community-based clinicians in FQHCs and other clinics and skilled nursing facilities in the post-acute care network. In FY19, Dr. Thompson led a conference on the University of Chicago campus that brought together other ECHO-Geriatrics sites from the United States and Canada. As part of the SHARE initiative, the Dementia Resource Champions, led by Shelle Williams, MD, was established to train faith leaders on Chicago’s Southside as educators in the faith communities and to establish dementia support groups in their churches. This pilot project has resulted in the development of 2 new caregiver support groups on the Chicago South Side with 5 new locations currently undergoing the training. Also noteworthy in FY19 was the establishment of research collaborations for junior faculty through the Carol and George Abramson Pilot Awards for Aging and Longevity. As result, several faculty are conducting pilot projects through this mechanism: Dr. Martinchek is studying the effects of high intensity walking in older adults in the pre-op period; Dr. Huisingh-Scheetz is piloting a technology-based exercise and social engagement program (ENGAGE) utilizing smart voice in older adults and their caregivers; Lauren Gleason, MD (with Tereisita Hogan, MD) is evaluating older adults who present to the ER after a fall with objective measures of function and timely physical therapy evaluations using the Falling Older Adults Management (FOMA) protocol. In other funding, Dr. Malic received a Mesothelioma Research Pilot Award to study the association of symptoms, quality of life, and physical performance status in patients with malignant pleural mesothelioma. Within the Section’s educational programs, the Hospice and Palliative Medicine Fellowship (Charles Rhode, MD – Program Director) and Geriatric Medicine Fellowship (Katherine Thompson, MD – Program Director) continue to attract excellent candidates from across the country. Dr. Williams continues to direct the Geriatrics and Aging Through Transitional Environments (GATE) Program for medical students. With grant support from the Coleman Foundation, and in partnership with other academic medical centers in Chicago, Dr. Levine created an immersion course in palliative medicine for advanced practice nurses and physician assistants and a longitudinal training program in primary palliative medicine skills for physicians, nurses, chaplains, and social workers. Both courses include communication training led by VitalTalk trained faculty Drs. Williams and Tun. The Section also established an Aging Crossroads Lecture Series during S19 and Rounds that features visiting speakers who participate in aging research within and outside the BSO.

**D I S C O V E R I E S A N D I N N O V A T I O N S :**

- Developed an innovative model using telemonitoring to provide geriatrics education for nurses and social workers at skilled nursing facilities. (Gleason, Thompson, Martinchek et al., Geriatric Nursing, 2019)
- Showed that Extension for Community Healthcare Outcomes (ECHO) offers a novel strategy for improving community HCPs’ geriatrics self-efficacy and frequency of geriatric-centered practice behaviors. (Thompson, Kostas, Levine, et al., Gerontology & Geriatrics Education, 2019)

**A C C O M P L I S H M E N T S A N D H I G H L I G H T S :**

- **Stacie Levine, MD** - Named as a Chicago Magazine Top Doctor
- **Dana Brauner, MD** - Appointed as a Budnickbaum Institute for Clinical Excellence Senior Faculty Scholar
- **Megan Huislingh-Scheetz, MD** - Recipient of the 2019 Department of Medicine Leif B. Sorenson Faculty Research Award and served as a symposium speaker at the 2019 Annual International Conference on Frailty and Sarcopenia Research Meeting. Miami Beach, FL
- **Lauren Gleason, MD** - Recipient of the 2019 Best Abstract Award (Clinical Research) at the Department of Medicine Research Day and accepted into the MERITS Faculty Scholars Program
- **Sandy Tun, MD** - Graduate of the MERITS Faculty Scholars Program
- **Charles Rhode, MD** - Recipient of the Heartland Scholarship from the American Academy of Hospice and Palliative Medicine and accepted into the MERITS Faculty Scholars Program
In April 2019 Sonali Smith, MD, Elwood V. Jensen Professor, was named as Interim Chief of the Section of Hematology/Oncology. Dr. Smith, Director of the Lymphoma Program, is an internationally recognized leader in lymphoma clinical care, education and clinical research. Dr. Smith serves in a number of leadership positions with national and international visibility. She is Vice-Chair of the Southwest Oncology Group (SWOG) Lymphoma Committee, was elected as a Fellow of the American Society of Hematology (ASCO) in 2019, is Chair-Elect of the ASCO Cancer Communications Committee, member of the National Cancer Institute’s Lymphoma Steering Committee, and elected as chair of the Scientific Advisory Board for the Lymphoma Research Foundation. She has chaired and organized the International John Ulmann Chicago Lymphoma Symposium, now in its 17th year. Dr. Smith succeeds Walter Stadler, MD who was appointed as Dean for Clinical Research for the Biological Sciences Division. In his new role, Dr. Stadler oversees the central infrastructure for clinical trials and clinical research.

In FY19 the Section welcomed four new assistant professors, Christine Bodleva, MD, Angela Laper, PhD, Evgeny Tzunkenchko, PhD, Randy Swids, MD, as well as two Pathway to Independence Instructors, Michael Drazer, MD, and James Godfrey, MD, to the faculty. Dr. Bodleva’s interests center on thoracic oncology, and include developmental therapeutics, clinical trial design and the financial ramifications of cancer care while Dr. Laper’s interests are focused on using clinical lymphangiographic and molecular genetic modalities for the investigation and discovery of neoplasm-associated genetic abnormalities. Dr. Tzunkenchko’s investigations are directed at understanding the complex interplay between the genetic and epigenetic alterations in carcinogenesis and disease progression. Dr. Swids is working to identify and circumvent mechanisms of resistance to cancer immunotherapies. Dr. Drazer’s research utilizes techniques at the interface of human genetics, molecular biology, and genomics to study hereditary cancer syndromes while Dr. Godfrey’s interests are focused on the identification of predictive biomarkers and translational development of novel immunotherapeutic approaches for the treatment of lymphoid malignancies.

Within the clinical programs, the Section has continued strong presence, innovative patient care, and expansion to network sites. The Section was once again recognized by USNWR as one of the top cancer programs in the nation (August 2019) and 2012 a distant faculty were named as “Top Cancer Doctors” by Chicago magazine (January 2019). Noteworthy in FY19 was the establishment of the first commercial CAR-T program in the state of Illinois, which leads the region in both research and clinical delivery of cellular therapy. Other initiatives include opening of the Oncology Rapid Assessment Clinic (ORAC) in March 2019 under the direction of Dr. Blaise Polite, successfully preventing cancer patients from waiting in the emergency department. The Section was also the first in the country to launch a portable radiation-therapy program (PPRT) for neuroendocrine tumors under the direction of Andy Liao, MD. Russell Smulowitz, MD and Dr. Stadler have partnered with the Department of Surgery to create a multi-disciplinary High Risk and Advanced Prostate Cancer Clinic. In network expansion efforts, the first multidisciplinary thoracic oncology clinic was created in partnership with thoracic surgery at the Orland Park outpatient facility to increase access to clinical trials in the community.

The Section maintains a very strong and successful program in basic, translational and clinical research. In FY19 section faculty were awarded approximately $231M in total grants funding garnered with an additional $26M in clinical trial earnings. New grants include a NIH R01 to Peter O’Donnell, MD to implement point-of-care pharmacometrics and decision support in perioperative care and a NIH P20 SPORE planning grant awarded to Dr. D’Olopa with the goal to reduce global disparities in breast cancer outcomes. New awards in the area of cancer immunology and immunotherapy include a NIH K08 awarded to Dr. Swids to elucidate immunotherapy resistance mechanisms in non-T cell-inflamed bladder cancer and a V Foundation Translational Award grant and a LLS Translational Research Program grant to Justin Kline, MD focused on PD-1/L-1 gene amplifications and the “T cell-inflamed” microenvironment in DLBCL. The Section continued to expand its clinical trial activity, accruing 938 patients into therapeutic trials.

Under the direction of Kenneth Cohen, MD and Olwen Hahn, MD, the Section continues to run a highly successful fellowship program with 7 current fellows from the highest ranked residency training programs.

A C C O M P L I S H M E N T S  a n d H I G H L I G H T S:

• Olufolamiyo Olopade, MD – Selected as the recipient of the Order of Lincoln Award, the State of Illinois’ highest honor

• Michelle Le Beau, PhD – Elected to the American Cancer Society’s Board of Directors and appointed to the Board of Scientific Advisors of the National Cancer Institute

• Hedy Kindler, MD – Appointed as Associate Vice Chair for Clinical Research for the Department of Medicine

• Richard Larson, MD – Awarded the Henry M. Stratton Medal from the American Society of Hematology.

• Lucy Godfrey, PhD – Elected to the Council of University Senate; Recipient of the Pamela & Kattan Memorial Lasker Research Foundation Researcher of the Year Award

• Blase Polite, MD – Appointed to the ASCO Board of Directors

• Peter O’Donnell – Selected by the graduating medical students as the Basic Science Teaching Award and Favorite Faculty Award

• Phillip Hoffman, MD and Wendy Stock, MD – Recipients of the Medical Resident Teaching Award by the graduating internal medicine residency class of 2019

• Found that macrophage chemokine inhibitor S9F combined with ruxolitinib showed promising activity in patients with aggressive and indolent lymphoma (Smith, Klime et al., New England Journal of Medicine, 2018)

• Provided new insights into the treatment of myelodysplasic disorder and myelodysplastic syndromes (Wistrikas, et al., Cancer Discovery, 2019)

• Demonstrated that progression-free survival was longer with maintenance alapizumab than with placebo in patients with a geminile BRCA mutation and metastatic pancreatic cancer (Kinder, et al., New England Journal of Medicine, 2019)

• Found that deep learning can predict microsatellite instability directly from histology in gastrointestinal cancer (Pearson, et al., Nature)
Hospitalists and hospitalist scholars were recruited in FY19 who are being engaged in teaching and training of the next generation of physicians and physician scientists at the medical school, residency and at the post graduate level. Matthew Cerasale, MD, MPH and Edwin Rosas, MD were appointed as core faculty for Mercy Hospital's Internal Medicine Residency Program. John Youn, MD, serves as Associate Program Director of this program and was awarded the Mercy General Internal Medicine Teaching Attending of the Year Award. Drs. Prochaska and Meltzer co-direct the Chicago Translational Medicine Program to train University of Chicago undergraduate students in translational medicine. Dr. Chattopadhyay continued to teach a course focused on machine learning and advanced analytics for biomedicine, as well as a new course in machine learning for biology. Bridget McGrath, PA, Director of NPA Services, continued to teach a course focused on machine learning and advanced analytics for biomedicine. They are also supporting the launch of the 2019 Society of Hospital Medicine Best Research Innovation Oral Abstract Award for “Effects of Comprehensive Care Physicians on Patient Experience, Outcomes and Hospitalization: Preliminary Results of a Randomized Controlled Trial”

Hospital Medicine faculty continue to be actively engaged in teaching and training of the next generation of physicians and physician scientists at the medical school, residency and at the post graduate level. Matthew Cerasale, MD, MPH and Edwin Rosas, MD were appointed as core faculty for Mercy Hospital’s Internal Medicine Residency Program. John Youn, MD, serves as Associate Program Director of this program and was awarded the Mercy General Internal Medicine Teaching Attending of the Year Award. Drs. Prochaska and Meltzer co-direct the Chicago Translational Medicine Program to train University of Chicago undergraduate students in translational medicine. Dr. Chattopadhyay continued to teach a course focused on machine learning and advanced analytics for biomedicine, as well as a new course in machine learning for biology. Bridget McGrath, PA, Director of NPA Services, maintained affiliation faculty status for Butler University, and served as a clinical preceptor for 5 advanced practice provider (APP) rotation blocks.

Multiple Section events, and provide support to the C4P social service team. AmeriCorps members continued to teach a course focused on machine learning and advanced analytics for biomedicine, as well as a new course in machine learning for biology. Bridget McGrath, PA, Director of NPA Services, maintained affiliation faculty status for Butler University, and served as a clinical preceptor for 5 advanced practice provider (APP) rotation blocks.

With leadership by David Meltzer, MD, PhD, the Section of Hospital Medicine continues to be recognized for its innovative patient care, research and educational programs. Section faculty care for some of the most medically complex patients admitted to the University of Chicago Medicine (UCM). In FY19, the Section of Hospital Medicine grew their clinical footprint covering over 130 patients in UCM per day (representing over 33% of UCM patients), developed 5 additional clinical service leaders, and led efforts towards Mitchell Hospital redesign to allow for better geographic concentration of patients and more effective and efficient multidisciplinary care. To meet this growing need, over 25 new hospitalists and hospitalist scholars were recruited in FY19 who are being welcomed to the Section in FY20.

Also noteworthy was the successful launch of the second phase of the Robert Wood Johnson Foundation (RWJF) funded Comprehensive Care, Community and Culture Program (C4P) study, which strengthens the work of the Comprehensive Care Physician (CCP) Program, mobilizing new resources to screen for patients’ medical and social needs and to support and activate patients to address those needs. In addition, the C4P Americorps program funded by the Illinois Department of Public Health was launched and recruited 3 cohorts of intergenerational members in FY19. Americorps members are supporting C4P study recruitment and follow up survey efforts at UCM and in the community. They also staff the C4P Artful Living Program events, and provide support to the C4P social service team. Americorps members also are supporting the launch and research operations of the C4P model at Ingalls Hospital and assessing the social needs of patients in ambulatory clinics at Rush University Medical Center.

In FY19, Elizabeth Murphy, MD, Director of Clinical Operations, several major improvements were made to improve clinical care delivery and quality including working with UCM to design and implement a redesign of services to accommodate the tremendous growth of hospital medicine services. In addition, Cheng-Kai Kao, MD, led efforts in advancing medical informatics, and efforts regarding clinical decision support systems and clinical documentation improvement.

In FY19, Vincent DMaggio, MD and Micah Prochaska, MD joined the Section as assistant professors of medicine. Dr. DMaggio has academic interests that include care for medically, psychologically, and socially complex patients of all ages as well as medical education.

Dr. Prochaska is a hospitalist clinician and health outcomes researcher with a focus on hospital-based interventions for anemia affect patient reported outcomes after hospital discharge. The Section’s research portfolio consisted of $6.3 million in extramural funding in FY19. In addition to the RWJF and Americorps grants, other new grants include a Department of Defense award to Ishan Chattopadhyay, PhD to support his work focused on accelerated robust learning via deep knowledge integration. Robert Gibbons, PhD continued his work focused on suicide risk and prevention with three NIMH-grants in collaboration with investigators at New York University, Northwestern University and the University of Pittsburgh.

Hospital Medicine research portfolio of $6.3 million in extramural funding in FY19. In addition to the RWJF and Americorps grants, other new grants include a Department of Defense award to Ishan Chattopadhyay, PhD to support his work focused on accelerated robust learning via deep knowledge integration. Robert Gibbons, PhD continued his work focused on suicide risk and prevention with three NIMH-grants in collaboration with investigators at New York University, Northwestern University and the University of Pittsburgh.
The Section of Infectious Diseases, under the direction of David Pitrak, MD, had a very successful year in terms of growth, expansion and recognition of its outstanding clinical, research and educational programs. The Section’s most notable accomplishments include the recruitment of several faculty, national recognition of the Antimicrobial Stewardship Program, the acquisition of a multi-million dollar, high impact NIH U2 award to fight opioid addiction and overdoses in criminal justice populations and the renewal of the Expanded HIV Testing and Linkage to Care Program by the Chicago Department of Public Health (CPDH).

In FY19, Moira McNulty, MD, and Aneeluddha (Ane) Haza, MD, both assistant professors of medicine, joined the Section. Dr. McNulty is a NIH K award recipient who is investigating the next generation of HIV screening strategies to enhance HIV elimination efforts. Dr. Haza focuses his work on sexually transmitted infections and their impact on gender and sexual minorities and serves as the medical director of the new Sexual Wellness Clinic, a collaborative effort with the Emergency Department. In late FY19, Eric Pamer, MD was recruited to the University of Chicago as the inaugural director of the Duchossois Family Institute, and serves as professor of medicine in the Section effective July 1, 2019. Dr. Pamer is an international expert in the role of the microbiome in the treatment of cancer.

Within the clinical programs, the Section has a very active 24/7 consultative service as well as a very busy immunocompromised host service that serves the oncology and transplant programs. Under the direction of Jennifer Pisano, MD, the Antimicrobial Stewardship Program (ASP) continued to make great contributions to the medical center by assuring appropriate antimicrobial use at ECMC, not only through day to day review of antibiotic usage, but also innovative education efforts aimed at both physicians and patients. In FY19, the ASP program received Center of Excellence designation from Infectious Diseases Society of America (IDSA), recognition only given to 41 US medical centers for implementing stewardship protocols to optimize the treatment of infections and reduce adverse events associated with antibiotic use to help clinicians improve the quality of patient care and promote patient safety. In other quality initiatives, the UCM has continued to meet all its goals with respect to hand hygiene, central line associated bloodstream infections, and catheter associated UTIs, and continues to combat C. difficile infection in the hospital. These accomplishments by the infection control program (Emily Landon, MD – Director) contribute significantly to the medical center’s national A ratings from the Leapfrog Group.

The Chicago Center for HIV Elimination (John Schneider, MD and David Pitrak, MD – Co-Directors) is the hub for many of the clinical, research and educational activities in the Section. With non-stop funding from the CDPR since 2011 and recently renewed for 5 additional years, Dr. Pitrak continues to focus his efforts on expanded HIV testing and linkage to care (X-TLC) for disproportionately affected populations in healthcare settings at ECMC and at over a dozen other sites across the state, and global connections with HIV prevention programs in Greece and China. The Section’s research programs are very robust and span the areas of infectious diseases, public health, and global health. In FY19, the Section’s research portfolio totaled over $45M, accentuated by a new U2 award (John Schneider, MD – PI) to develop a methodology and advanced analytics resource center (MAARIC) with investigators from the University of Chicago, Argonne National Labs, and NORDC to investigate opioid use disorder within justice contexts. In addition Dr. Schneider was awarded a new NIH K23 to develop a program focused on Third Coast HIV-Related Cardiovascu lar and Sleep Disorders. These awards will greatly enhance work done as part Third Coast Center for AIDS Research (CFAR), a partnership with Northwestern, the AIDS Foundation of Chicago, the Chicago Department of Public Health, the Alliance of Chicago Community Health Systems, and the Center on Halsted, to reduce the very high rate of new HIV infections among young minority MSM in Chicago. Other news awards in FY19 include an NIH K23 awarded to Dr. McNulty focused on improving the implementation and scale-up of effective HIV prevention and treatment interventions used in Getting to Zero initiatives for HIV elimination, and a K99 awarded to Lindsay Young, PhD focused on HIV prevention and care. In clinical trials research, Dr. Kathleen Mullane continues to conduct a number of studies of new antimicrobial agents, with many of her studies benefiting the immunocompromised patient populations in hematology, stem cell transplant, and solid organ transplant programs.

In the educational arena, the Infectious Diseases and Global Health Fellowship Program continued to attract outstanding fellows. In FY19 several fellows furthered their academic training by enrolling in advanced programs in public health studies, outcomes research and medical ethics. The Wuhan University Medical Education Reform (WUMER) Project (Renslow Sherer, MD, Director and Associate Director, Jon Lio, MD) is now in its third year. The hugely successful program continues to lead fellowship development, undergraduate curriculum implementation, and resident training at Wuhan University and has been very well received by the China Higher Education Association. In FY19, Dr. Sherer served as lead editor of a book entitled “Medical Education Reform in China: Practical Lessons from Wuhan University.”

The Section of Infectious Diseases, under the direction of David Pitrak, MD has a very successful year in terms of expansion, growth and recognition of its outstanding clinical, research and educational programs. The Section’s most notable accomplishments include the recruitment of several faculty, national recognition of the Antimicrobial Stewardship Program, the acquisition of a multi-million dollar, high impact NIH U2 award to fight opioid addiction and overdoses in criminal justice populations and the renewal of the Expanded HIV Testing and Linkage to Care Program by the Chicago Department of Public Health (CPDH).
Under the direction of Arlene Chapman, MD, the Section of Nephrology continues its multidisciplinary mission of excellence in clinical care, education and scholarly activity. The FY19 academic year was an outstanding year for the Section with many accomplishments including recognition by US News and World Report, new research funding, and new educational initiatives.

Within the clinical programs, Nephrology improved to # 31 from highly ranked (>50) in the U.S. News & World Report 2019-20 survey of best hospitals, after being listed as “high performing” last year. Other achievements include the opening of the Section’s sixth outpatient dialysis unit, Brighton Park, under the direction of Rita McGill, MD, the fifth other University of Chicago Medicine (UCM) led, DaVita-owned outpatient dialysis units continue to deliver excellent patient care. The Woodlawn Outpatient Dialysis Unit led by Mary Hammes, MD, received 5 out of 5 stars on the CMS star-rating system. In FY20, the Section plans to open a seventh dialysis unit.

In FY19, the Nephrology Ambulatory Clinic (Anna Zisman, MD- Director) continued its efforts to build a comprehensive multidisciplinary kidney care program, adding nutritional services and social work support for the complex patient population. In addition, Dr. Hammes coordinated two monthly vascular access multi-disciplinary conferences between Nephrology, Surgery, and Interventional Radiology in order to improve patient outcomes and facilitate communication among disciplines. “Access” conferences include case presentations at Vascular Surgery Grand Rounds with discussion to determine the best approach personalized for each patient. Under the direction of Michelle Josephson, MD, the Renal Transplant Program realized a 21% volume increase in renal transplant as compared to FY18.

The Section of Nephrology is proud of its innovative bench, translational and patient-oriented research achievements in polycystic kidney disease, acute kidney injury, epithelial cell transport, growth, and gene expression, and the pathophysiology of kidney stone formation. In FY19 the research efforts of Hatim Hassan, MD, PhD, resulted in successful funding to develop a peptide-based oral drug to prevent kidney stones. A multimillion NIH STTR grant was awarded to Dr. Hassan’s startup company, Oxalo Therapeutics, where his studies focus on further characterization of Oxaloformigenes-derived small peptides (P8 and P9) having significant therapeutic potential for hyperoxalemia, hyperoxaluria, and related kidney stones. This includes structural modifications of these peptides to enhance their in vivo stability against proteolytic degradation, characterization of the shortest functional peptide subdomains, identification of the involved cell surface receptors and oxalate transporter(s), and defining the signaling pathways mediating stimulation of oxalate transport in human intestinal Caco-2 BBE cells. Other projects focus on defining the roles of leptin, proinflammatory cytokines and altered gut microbiome in the pathogenesis of inflammatory bowel disease-associated hyperoxaluria, and the role of altered gut microbiome and increased hepatic oxalate production in the pathogenesis of obesity-associated hyperoxaluria. In other grant news, Jay Koyner, MD, was awarded an NIH H2121 to develop an early real-time electronic health record risk algorithm for the prevention and treatment of acute kidney injury. The Nephrology Fellowship Program (Anna Zisman, MD- Program Director) transitioned to a new era of educational excellence in FY19. Under Dr. Zisman’s guidance, the Nephrology fellows presented a poster on quality measures in dialysis units to the 14th Annual Quality & Safety Symposium. The Nephrology Training Program realized a 21% volume increase in renal transplant as compared to FY18.

Within the clinical programs, Nephrology improved to # 31 from highly ranked (>50) in the U.S. News & World Report 2019-20 survey of best hospitals, after being listed as “high performing” last year. Other achievements include the opening of the Section’s sixth outpatient dialysis unit, Brighton Park, under the direction of Rita McGill, MD, the fifth other University of Chicago Medicine (UCM) led, DaVita-owned outpatient dialysis units continue to deliver excellent patient care. The Woodlawn Outpatient Dialysis Unit led by Mary Hammes, MD, received 5 out of 5 stars on the CMS star-rating system. In FY20, the Section plans to open a seventh dialysis unit.

In FY19, the Nephrology Ambulatory Clinic (Anna Zisman, MD- Director) continued its efforts to build a comprehensive multidisciplinary kidney care program, adding nutritional services and social work support for the complex patient population. In addition, Dr. Hammes coordinated two monthly vascular access multi-disciplinary conferences between Nephrology, Surgery, and Interventional Radiology in order to improve patient outcomes and facilitate communication among disciplines. “Access” conferences include case presentations at Vascular Surgery Grand Rounds with discussion to determine the best approach personalized for each patient. Under the direction of Michelle Josephson, MD, the Renal Transplant Program realized a 21% volume increase in renal transplant as compared to FY18.

The Section of Nephrology is proud of its innovative bench, translational and patient-oriented research achievements in polycystic kidney disease, acute kidney injury, epithelial cell transport, growth, and gene expression, and the pathophysiology of kidney stone formation. In FY19 the research efforts of Hatim Hassan, MD, PhD, resulted in successful funding to develop a peptide-based oral drug to prevent kidney stones. A multimillion NIH STTR grant was awarded to Dr. Hassan’s startup company, Oxalo Therapeutics, where his studies focus on further characterization of Oxaloformigenes-derived small peptides (P8 and P9) having significant therapeutic potential for hyperoxalemia, hyperoxaluria, and related kidney stones. This includes structural modifications of these peptides to enhance their in vivo stability against proteolytic degradation, characterization of the shortest functional peptide subdomains, identification of the involved cell surface receptors and oxalate transporter(s), and defining the signaling pathways mediating stimulation of oxalate transport in human intestinal Caco-2 BBE cells. Other projects focus on defining the roles of leptin, proinflammatory cytokines and altered gut microbiome in the pathogenesis of inflammatory bowel disease-associated hyperoxaluria, and the role of altered gut microbiome and increased hepatic oxalate production in the pathogenesis of obesity-associated hyperoxaluria. In other grant news, Jay Koyner, MD, was awarded an NIH H2121 to develop an early real-time electronic health record risk algorithm for the prevention and treatment of acute kidney injury. The Nephrology Fellowship Program (Anna Zisman, MD- Program Director) transitioned to a new era of educational excellence in FY19. Under Dr. Zisman’s guidance, the Nephrology fellows presented a poster on quality measures in dialysis units to the 14th Annual Quality & Safety Symposium. The Nephrology Training Program realized a 21% volume increase in renal transplant as compared to FY18.

the second year of the fellowship program now provides 4 intensive training tracks leading fellows to become subject matter experts in sub-specialized areas of nephrology. The Nephrology fellows represented the Section at the citywide 2019 National Kidney Foundation “Controversies in Nephrology” debate under the mentorship of Patrick Cunningham, MD and won the audience’s choice for best debate team in the city. Dr. Kri is preparing for the third year of the successful national TREKS award (Tutored Research and Education for Kidney Scholars) program, the second grant of its kind ever awarded by the American Society of Nephrology. Through the TREKS program, medical students interested in nephrology from all over the country spent one week in July 2019 at the University of Chicago participating in an integrated experience in both clinical and research nephrology to foster careers as future nephrologists.

On May 16, 2019, the Section hosted its second annual University of Chicago Nephrology Research Day entitled “Acute Kidney Injury.” The symposium included speakers from across the city of Chicago including Rush Medical College, Northwestern University, NorthShore University Health System, University of Chicago presenters in the Departments of Anesthesia, Section of Pulmonary & Critical Care and Cardiology, and national experts including Dr. Kathleen Liu of the UCSF School of Medicine.

• Conducted a genome wide association study to elucidate the underlying genetic determinants in European Americans contributing to variability in blood response to beta-blockers (Singh, Chapman, et al, Clinical Translational Science, 2019).

• Conducted a critical review of published literature for sepsis associated acute kidney injury (SA-AKI) to refine understanding of SA-AKI, and possibly set a new course for prevention, treatment, and renal recovery (Poston, Koyner, British Medical Journal, 2019).

• Demonstrated that copeptin holds promise as a biomarker to predict outcome and tolvaptan treatment efficacy in autosomal dominant polycystic kidney disease (Gansevoort, Chapman et al, Kidney International, 2019).

• Measured the hemodynamic effects of hemodialyzer pump speed on arteriovenous fistulas (Hammes, McGill, et al, Clinical Nephrology, 2019).

• Developed an acute kidney injury risk prediction model using electronic health record data for longitudinal use in hospitalized patients (Koyner, et al, Critical Care Medicine, 2018).

• Demonstrated that enhanced gastrointestinal passive paracellular permeability contributes to the obesity-associated hyperoxaluria. (Bashir, Hassan, et al, American Journal of Physiology Gastrointestinal & Liver Physiol, 2019).

• Pratik Shah, MD- Recipient of the 2019 Department of Medicine’s Procedure Activity Award

• Nicole Stankus, MD- Recipient of the 2019 Department of Medicine’s Overall Clinical Activity Award

• Conducted a critical review of published literature for sepsis associated acute kidney injury (SA-AKI) to refine understanding of SA-AKI, and possibly set a new course for prevention, treatment, and renal recovery (Poston, Koyner, British Medical Journal, 2019).

• Demonstrated that copeptin holds promise as a biomarker to predict outcome and tolvaptan treatment efficacy in autosomal dominant polycystic kidney disease (Gansevoort, Chapman et al, Kidney International, 2019).

• Measured the hemodynamic effects of hemodialyzer pump speed on arteriovenous fistulas (Hammes, McGill, et al, Clinical Nephrology, 2019).

• Developed an acute kidney injury risk prediction model using electronic health record data for longitudinal use in hospitalized patients (Koyner, et al, Critical Care Medicine, 2018).

• Pratik Shah, MD- Recipient of the 2019 Department of Medicine’s Procedure Activity Award

• Conducted a critical review of published literature for sepsis associated acute kidney injury (SA-AKI) to refine understanding of SA-AKI, and possibly set a new course for prevention, treatment, and renal recovery (Poston, Koyner, British Medical Journal, 2019).

• Demonstrated that copeptin holds promise as a biomarker to predict outcome and tolvaptan treatment efficacy in autosomal dominant polycystic kidney disease (Gansevoort, Chapman et al, Kidney International, 2019).

• Measured the hemodynamic effects of hemodialyzer pump speed on arteriovenous fistulas (Hammes, McGill, et al, Clinical Nephrology, 2019).

• Developed an acute kidney injury risk prediction model using electronic health record data for longitudinal use in hospitalized patients (Koyner, et al, Critical Care Medicine, 2018).

• Pratik Shah, MD- Recipient of the 2019 Department of Medicine’s Procedure Activity Award

• Nicole Stankus, MD- Recipient of the 2019 Department of Medicine’s Overall Clinical Activity Award

• Conducted a critical review of published literature for sepsis associated acute kidney injury (SA-AKI) to refine understanding of SA-AKI, and possibly set a new course for prevention, treatment, and renal recovery (Poston, Koyner, British Medical Journal, 2019).

• Demonstrated that copeptin holds promise as a biomarker to predict outcome and tolvaptan treatment efficacy in autosomal dominant polycystic kidney disease (Gansevoort, Chapman et al, Kidney International, 2019).

• Measured the hemodynamic effects of hemodialyzer pump speed on arteriovenous fistulas (Hammes, McGill, et al, Clinical Nephrology, 2019).

• Developed an acute kidney injury risk prediction model using electronic health record data for longitudinal use in hospitalized patients (Koyner, et al, Critical Care Medicine, 2018).

• Pratik Shah, MD- Recipient of the 2019 Department of Medicine’s Procedure Activity Award

• Nicole Stankus, MD- Recipient of the 2019 Department of Medicine’s Overall Clinical Activity Award
Under the leadership of Gökhan Mutlu, MD, the Section of Pulmonary and Critical Care Medicine continues to be recognized nationally for excellence in patient care, education and research. In FY19, four new faculty joined the Section: Rena Jablonski, MD, assistant professor of medicine, is a physician scientist whose research focuses on interstitial lung diseases (ILD). Krysta Wolfe, MD, assistant professor of medicine, is a physician scientist who studies the impact of vasopressors on outcomes in critically ill patients. Nathan Schoettler, MD, PhD, instructor, is a physician scientist interested in understanding the T cell responses in asthmatics to better understand the mechanisms of asthma. Dr. David Wu, MD, PhD, instructor, is a physician scientist who studies how mechanotransduction affects cellular metabolism to drive endothelial dysfunction during acute lung injury and sepsis.

The Section’s inpatient and outpatient clinical programs continued to grow in FY19. Under the direction of Mary Strek, MD, the Intermountain Lung Disease Program (ILD) continues to be the leading program in Chicago area and one of the top programs nationally. Under the direction of Remzi Bag, MD, the Pulmonary Hypertension (PH) Program continues to grow in volume. Due to high numbers of patients, both the ILD and PH programs participated in large multicenter clinical trials. Growth in inpatient patient volumes particularly that in the medical ICU, has resulted in the expansion of the MICU service to include an APN ICU. Consequently, JP Kress, MD was appointed as the medical director of the APN ICU and led the outstanding efforts to start the new 8 South APN ICU. Under the direction of Babak Mokhlesi, MD and with the help of sleep experts, Jessica Cooksey, MD, Erika Tazali, MD and Tanya Wells, APN, the Sleep Program will continue to provide care in the newly built River East multidisciplinary clinic in the downtown area. The Lung Transplant Program has expanded its clinical operation to the Orland Park facility where Edward Garrity, MD has started a clinic.

The Section continues to distinguish themselves in all domains of teaching and training. The T32 training program co-led by Dr. Sperling and Julie Solway, MD entered its 35th year. Based on the almost perfect score, the Section is confident that the T32 grant will be renewed during early FY20. The pulmonary and critical care fellowship program director, Jason Poston, MD received a Favorite Faculty Award from the Pritzker School of Medicine graduating students for the seventh time. The Section continues to recruit outstanding fellows into our three fellowship programs: pulmonary and critical care medicine, sleep medicine and interventional pulmonary (IP). The IP Fellowship Program has recently been awarded full accreditation by the AABIP/AAPID.
Dr. Marcus Clark

Under the leadership of Marcus Clark, MD, the Section of Rheumatology continued its tradition of clinical excellence, innovative research and outstanding clinical training focused on understanding autoimmune disease with the goal of improving the care of those afflicted with diseases such as lupus, rheumatoid arthritis, vasculitis and polyarthritis. In the past year, Section faculty continue to make advancements in the field of immunology that have the potential to translate into cutting edge treatments for those suffering from autoimmune and infectious diseases.

The Section maintains outstanding disease-focused clinical programs that drive its reputation for excellence in the treatment of rheumatic diseases. Two new academic clinicians recently joined the Section: Iazsmin Ventura, MD, assistant professor of medicine, completed her Masters Degree in Public Health Sciences and will focus on both innate and adaptive immunity and cancer. Indeed, by focusing on the complex interplay between the immune system and disease. This broad and impactful approach successfully enabled Drs. Patrick Wilson and Marcus Clark to renew the NIH Autoimmunity Center of Excellence (ACE) Award. The University of Chicago ACE, one of only ten such centers in the United States, is focused on applying cutting edge and novel technologies to understand human autoimmunity and develop new therapeutics. Dr. Wilson was also part of two multi-institutional research teams that successfully renewed NIH-funded programs in influenza research. These awards build on fundamental findings that developed a novel computational approach, using deep machine learning, to identify adaptive cell networks in human tissue. This approach will pave the way for a new mechanistic understanding of in situ immune responses in human diseases (Liarski, Clark and colleagues, Nature Immunology, 2019).

Within the Section’s educational programs, Dr. Ko assumed directorship of the Rheumatology Fellowship Program. Under his leadership, the Section is developing specialized clinical and training investigator tracks. Furthermore, he is strengthening and formalizing research mentorship during all three years of fellowship. The fellowship program continues to capitalize on the growing interest in the role of cytokines and chemokines in transplant rejection and TCR avidity (Alegre and colleagues, Cell Reports, 2019). The fellowship program continues to anticipate new FY20 fellowship faculty.

The Section’s investigative work provides insights into the complex interplay between the immune system and disease. This Section’s investigative work provides insights into the complex interplay between the immune system and disease. This broad and impactful approach successfully enabled Drs. Patrick Wilson and Marcus Clark to renew the NIH Autoimmunity Center of Excellence (ACE) Award. The University of Chicago ACE, one of only ten such centers in the United States, is focused on applying cutting edge and novel technologies to understand human autoimmunity and develop new therapeutics. Dr. Wilson was also part of two multi-institutional research teams that successfully renewed NIH-funded programs in influenza research. These awards build on fundamental findings that developed a novel computational approach, using deep machine learning, to identify adaptive cell networks in human tissue. This approach will pave the way for a new mechanistic understanding of in situ immune responses in human diseases (Liarski, Clark and colleagues, Nature Immunology, 2019).

Within the Section’s educational programs, Dr. Ko assumed directorship of the Rheumatology Fellowship Program. Under his leadership, the Section is developing specialized clinical and training investigator tracks. Furthermore, he is strengthening and formalizing research mentorship during all three years of fellowship. The fellowship program continues to capitalize on the growing interest in the role of cytokines and chemokines in transplant rejection and TCR avidity (Alegre and colleagues, Cell Reports, 2019). The fellowship program continues to anticipate new FY20 fellowship faculty.

The Section’s investigative work provides insights into the complex interplay between the immune system and disease. This broad and impactful approach successfully enabled Drs. Patrick Wilson and Marcus Clark to renew the NIH Autoimmunity Center of Excellence (ACE) Award. The University of Chicago ACE, one of only ten such centers in the United States, is focused on applying cutting edge and novel technologies to understand human autoimmunity and develop new therapeutics. Dr. Wilson was also part of two multi-institutional research teams that successfully renewed NIH-funded programs in influenza research. These awards build on fundamental findings that developed a novel computational approach, using deep machine learning, to identify adaptive cell networks in human tissue. This approach will pave the way for a new mechanistic understanding of in situ immune responses in human diseases (Liarski, Clark and colleagues, Nature Immunology, 2019).

Within the Section’s educational programs, Dr. Ko assumed directorship of the Rheumatology Fellowship Program. Under his leadership, the Section is developing specialized clinical and training investigator tracks. Furthermore, he is strengthening and formalizing research mentorship during all three years of fellowship. The fellowship program continues to capitalize on the growing interest in the role of cytokines and chemokines in transplant rejection and TCR avidity (Alegre and colleagues, Cell Reports, 2019). The fellowship program continues to anticipate new FY20 fellowship faculty.

The Section’s investigative work provides insights into the complex interplay between the immune system and disease. This broad and impactful approach successfully enabled Drs. Patrick Wilson and Marcus Clark to renew the NIH Autoimmunity Center of Excellence (ACE) Award. The University of Chicago ACE, one of only ten such centers in the United States, is focused on applying cutting edge and novel technologies to understand human autoimmunity and develop new therapeutics. Dr. Wilson was also part of two multi-institutional research teams that successfully renewed NIH-funded programs in influenza research. These awards build on fundamental findings that developed a novel computational approach, using deep machine learning, to identify adaptive cell networks in human tissue. This approach will pave the way for a new mechanistic understanding of in situ immune responses in human diseases (Liarski, Clark and colleagues, Nature Immunology, 2019).

Within the Section’s educational programs, Dr. Ko assumed directorship of the Rheumatology Fellowship Program. Under his leadership, the Section is developing specialized clinical and training investigator tracks. Furthermore, he is strengthening and formalizing research mentorship during all three years of fellowship. The fellowship program continues to capitalize on the growing interest in the role of cytokines and chemokines in transplant rejection and TCR avidity (Alegre and colleagues, Cell Reports, 2019). The fellowship program continues to anticipate new FY20 fellowship faculty.

The Section’s investigative work provides insights into the complex interplay between the immune system and disease. This broad and impactful approach successfully enabled Drs. Patrick Wilson and Marcus Clark to renew the NIH Autoimmunity Center of Excellence (ACE) Award. The University of Chicago ACE, one of only ten such centers in the United States, is focused on applying cutting edge and novel technologies to understand human autoimmunity and develop new therapeutics. Dr. Wilson was also part of two multi-institutional research teams that successfully renewed NIH-funded programs in influenza research. These awards build on fundamental findings that developed a novel computational approach, using deep machine learning, to identify adaptive cell networks in human tissue. This approach will pave the way for a new mechanistic understanding of in situ immune responses in human diseases (Liarski, Clark and colleagues, Nature Immunology, 2019).

Within the Section’s educational programs, Dr. Ko assumed directorship of the Rheumatology Fellowship Program. Under his leadership, the Section is developing specialized clinical and training investigator tracks. Furthermore, he is strengthening and formalizing research mentorship during all three years of fellowship. The fellowship program continues to capitalize on the growing interest in the role of cytokines and chemokines in transplant rejection and TCR avidity (Alegre and colleagues, Cell Reports, 2019). The fellowship program continues to anticipate new FY20 fellowship faculty.

The Section’s investigative work provides insights into the complex interplay between the immune system and disease. This broad and impactful approach successfully enabled Drs. Patrick Wilson and Marcus Clark to renew the NIH Autoimmunity Center of Excellence (ACE) Award. The University of Chicago ACE, one of only ten such centers in the United States, is focused on applying cutting edge and novel technologies to understand human autoimmunity and develop new therapeutics. Dr. Wilson was also part of two multi-institutional research teams that successfully renewed NIH-funded programs in influenza research. These awards build on fundamental findings that developed a novel computational approach, using deep machine learning, to identify adaptive cell networks in human tissue. This approach will pave the way for a new mechanistic understanding of in situ immune responses in human diseases (Liarski, Clark and colleagues, Nature Immunology, 2019).

Within the Section’s educational programs, Dr. Ko assumed directorship of the Rheumatology Fellowship Program. Under his leadership, the Section is developing specialized clinical and training investigator tracks. Furthermore, he is strengthening and formalizing research mentorship during all three years of fellowship. The fellowship program continues to capitalize on the growing interest in the role of cytokines and chemokines in transplant rejection and TCR avidity (Alegre and colleagues, Cell Reports, 2019). The fellowship program continues to anticipate new FY20 fellowship faculty.

The Section’s investigative work provides insights into the complex interplay between the immune system and disease. This broad and impactful approach successfully enabled Drs. Patrick Wilson and Marcus Clark to renew the NIH Autoimmunity Center of Excellence (ACE) Award. The University of Chicago ACE, one of only ten such centers in the United States, is focused on applying cutting edge and novel technologies to understand human autoimmunity and develop new therapeutics. Dr. Wilson was also part of two multi-institutional research teams that successfully renewed NIH-funded programs in influenza research. These awards build on fundamental findings that developed a novel computational approach, using deep machine learning, to identify adaptive cell networks in human tissue. This approach will pave the way for a new mechanistic understanding of in situ immune responses in human diseases (Liarski, Clark and colleagues, Nature Immunology, 2019).

Within the Section’s educational programs, Dr. Ko assumed directorship of the Rheumatology Fellowship Program. Under his leadership, the Section is developing specialized clinical and training investigator tracks. Furthermore, he is strengthening and formalizing research mentorship during all three years of fellowship. The fellowship program continues to capitalize on the growing interest in the role of cytokines and chemokines in transplant rejection and TCR avidity (Alegre and colleagues, Cell Reports, 2019). The fellowship program continues to anticipate new FY20 fellowship faculty.

The Section’s investigative work provides insights into the complex interplay between the immune system and disease. This broad and impactful approach successfully enabled Drs. Patrick Wilson and Marcus Clark to renew the NIH Autoimmunity Center of Excellence (ACE) Award. The University of Chicago ACE, one of only ten such centers in the United States, is focused on applying cutting edge and novel technologies to understand human autoimmunity and develop new therapeutics. Dr. Wilson was also part of two multi-institutional research teams that successfully renewed NIH-funded programs in influenza research. These awards build on fundamental findings that developed a novel computational approach, using deep machine learning, to identify adaptive cell networks in human tissue. This approach will pave the way for a new mechanistic understanding of in situ immune responses in human diseases (Liarski, Clark and colleagues, Nature Immunology, 2019).

Within the Section’s educational programs, Dr. Ko assumed directorship of the Rheumatology Fellowship Program. Under his leadership, the Section is developing specialized clinical and training investigator tracks. Furthermore, he is strengthening and formalizing research mentorship during all three years of fellowship. The fellowship program continues to capitalize on the growing interest in the role of cytokines and chemokines in transplant rejection and TCR avidity (Alegre and colleagues, Cell Reports, 2019). The fellowship program continues to anticipate new FY20 fellowship faculty.
### Internal Medicine Residents

**2019 Chief Residents**

<table>
<thead>
<tr>
<th>Name</th>
<th>PGY Level</th>
<th>Medical School Attended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marie McKinnon</td>
<td>II</td>
<td>University of Colorado</td>
</tr>
<tr>
<td>Sarah Gray</td>
<td>II</td>
<td>University of Michigan</td>
</tr>
</tbody>
</table>

**Second Year Residents**

<table>
<thead>
<tr>
<th>Name</th>
<th>PGY Level</th>
<th>Medical School Attended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elizabeth Munroe</td>
<td>II</td>
<td>University of Chicago</td>
</tr>
<tr>
<td>Jomiel Netcher</td>
<td>II</td>
<td>University of Washington</td>
</tr>
<tr>
<td>Kevin Prescott</td>
<td>II</td>
<td>University of Illinois</td>
</tr>
<tr>
<td>Lorna Dwyer</td>
<td>II</td>
<td>University of Chicago</td>
</tr>
<tr>
<td>Patrick Neumann</td>
<td>II</td>
<td>University of Chicago</td>
</tr>
<tr>
<td>Thomas Melzer</td>
<td>II</td>
<td>Loyola University</td>
</tr>
<tr>
<td>Nupur Mistry</td>
<td>II</td>
<td>University of Illinois</td>
</tr>
<tr>
<td>Ross McMillan</td>
<td>II</td>
<td>Johns Hopkins University</td>
</tr>
</tbody>
</table>

**First Year Residents**

<table>
<thead>
<tr>
<th>Name</th>
<th>PGY Level</th>
<th>Medical School Attended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jacob Hareza</td>
<td>II</td>
<td>Albert Einstein College of Medicine of Yeshiva University</td>
</tr>
<tr>
<td>Nolan Faust</td>
<td>II</td>
<td>University of Chicago</td>
</tr>
<tr>
<td>Marie Dreyer</td>
<td>II</td>
<td>Loyola University</td>
</tr>
<tr>
<td>Margaret Boyle</td>
<td>II</td>
<td>Saint Louis University</td>
</tr>
<tr>
<td>Michael Jacobs</td>
<td>II</td>
<td>Thomas Jefferson University</td>
</tr>
<tr>
<td>Edward Chukwurah</td>
<td>II</td>
<td>Ross University</td>
</tr>
<tr>
<td>Gaurav Ajmani</td>
<td>II</td>
<td>University of Chicago</td>
</tr>
<tr>
<td>Rasidat Adeduntan</td>
<td>II</td>
<td>University of Illinois</td>
</tr>
<tr>
<td>Dariusz Balmajda</td>
<td>II</td>
<td>Medical College of Virginia</td>
</tr>
<tr>
<td>Dany Accilien</td>
<td>II</td>
<td>Florida International University</td>
</tr>
</tbody>
</table>

**FELLOWS**

<table>
<thead>
<tr>
<th>Name</th>
<th>PGY Level</th>
<th>Medical School Attended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kathleen Wiest</td>
<td>II</td>
<td>University of Chicago</td>
</tr>
<tr>
<td>Joseph Weber</td>
<td>II</td>
<td>Loyola University</td>
</tr>
<tr>
<td>Dennis Jingzhou Wang</td>
<td>II</td>
<td>University of Virginia</td>
</tr>
<tr>
<td>Joseph Thomas</td>
<td>II</td>
<td>Indiana University</td>
</tr>
<tr>
<td>Kevin Prescott</td>
<td>II</td>
<td>University of Chicago</td>
</tr>
<tr>
<td>Lorna Dwyer</td>
<td>II</td>
<td>University of Illinois</td>
</tr>
<tr>
<td>Thomas Melzer</td>
<td>II</td>
<td>University of Chicago</td>
</tr>
<tr>
<td>Nupur Mistry</td>
<td>II</td>
<td>University of Illinois</td>
</tr>
<tr>
<td>Ross McMillan</td>
<td>II</td>
<td>Johns Hopkins University</td>
</tr>
<tr>
<td>Kevin Prescott</td>
<td>II</td>
<td>University of Chicago</td>
</tr>
<tr>
<td>Ashley Smith-Munne</td>
<td>II</td>
<td>University of Virginia</td>
</tr>
<tr>
<td>Noah Suresh</td>
<td>II</td>
<td>Rutgers University</td>
</tr>
<tr>
<td>Joseph Thomas</td>
<td>II</td>
<td>Indiana University</td>
</tr>
<tr>
<td>Dennis Jingzhou Wang</td>
<td>II</td>
<td>University of Michigan</td>
</tr>
<tr>
<td>Joshua Weber</td>
<td>II</td>
<td>Loyola University</td>
</tr>
<tr>
<td>Joseph Weber</td>
<td>II</td>
<td>Loyola University</td>
</tr>
<tr>
<td>Kathleen West</td>
<td>II</td>
<td>University of Chicago</td>
</tr>
<tr>
<td>Megan Zuber</td>
<td>II</td>
<td>Lutheran School of Medicine at Mount Sinai</td>
</tr>
</tbody>
</table>

### Dermatology Residents

**Third Year Residents**

<table>
<thead>
<tr>
<th>Name</th>
<th>PGY Level</th>
<th>Medical School Attended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clifford Hayman</td>
<td>IV</td>
<td>University of Chicago</td>
</tr>
<tr>
<td>Emily Lauter</td>
<td>IV</td>
<td>Columbia University</td>
</tr>
<tr>
<td>Jared Mitchko</td>
<td>IV</td>
<td>University of Florida</td>
</tr>
</tbody>
</table>

**Second Year Residents**

<table>
<thead>
<tr>
<th>Name</th>
<th>PGY Level</th>
<th>Medical School Attended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Julia Day</td>
<td>III</td>
<td>University of Pennsylvania</td>
</tr>
<tr>
<td>Aruz Desai</td>
<td>III</td>
<td>University of Central Florida</td>
</tr>
<tr>
<td>Esther Kern</td>
<td>III</td>
<td>University of Central Florida</td>
</tr>
</tbody>
</table>

### Emergency Medicine Residents

**Third Year Residents**

<table>
<thead>
<tr>
<th>Name</th>
<th>PGY Level</th>
<th>Medical School Attended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leslie Anderson</td>
<td>III</td>
<td>University of Rochester</td>
</tr>
<tr>
<td>Brian Back</td>
<td>III</td>
<td>University of Virginia</td>
</tr>
<tr>
<td>Ashteen Coker</td>
<td>III</td>
<td>University of Michigan</td>
</tr>
<tr>
<td>Emily Delbertina</td>
<td>III</td>
<td>Ohio State University</td>
</tr>
<tr>
<td>Amrita Dinesker</td>
<td>III</td>
<td>Northwestern University</td>
</tr>
<tr>
<td>Amrila Dinar</td>
<td>III</td>
<td>University of Michigan</td>
</tr>
<tr>
<td>Benjamin Vazquez</td>
<td>III</td>
<td>University of Florida</td>
</tr>
</tbody>
</table>

**Second Year Residents**

<table>
<thead>
<tr>
<th>Name</th>
<th>PGY Level</th>
<th>Medical School Attended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jennifer Svetel</td>
<td>II</td>
<td>University of Illinois</td>
</tr>
<tr>
<td>Jennifer Tarran</td>
<td>II</td>
<td>University of Chicago</td>
</tr>
<tr>
<td>Saaduddin Siddiqui</td>
<td>II</td>
<td>University of Chicago</td>
</tr>
<tr>
<td>Thomas O’Brien</td>
<td>II</td>
<td>Rutgers University</td>
</tr>
<tr>
<td>Matthew Heuton</td>
<td>II</td>
<td>Harvard University</td>
</tr>
<tr>
<td>Amelia Derstine</td>
<td>II</td>
<td>University of Michigan</td>
</tr>
<tr>
<td>Annette Dekker</td>
<td>II</td>
<td>Northwestern University</td>
</tr>
<tr>
<td>Rebecca Stern</td>
<td>II</td>
<td>Harvard College</td>
</tr>
<tr>
<td>Sarah Monick</td>
<td>II</td>
<td>University of Illinois</td>
</tr>
<tr>
<td>Collin Hanson</td>
<td>II</td>
<td>Rosalind Franklin University</td>
</tr>
<tr>
<td>Michael Weber</td>
<td>II</td>
<td>Northwestern University</td>
</tr>
</tbody>
</table>

**First Year Residents**

<table>
<thead>
<tr>
<th>Name</th>
<th>PGY Level</th>
<th>Medical School Attended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Emma Axline</td>
<td>II</td>
<td>Florida International University</td>
</tr>
<tr>
<td>Yvon Almeida</td>
<td>II</td>
<td>University of Southern California</td>
</tr>
<tr>
<td>Ben Arens</td>
<td>II</td>
<td>Northwestern University</td>
</tr>
<tr>
<td>Danielle Delfino</td>
<td>II</td>
<td>Meharry Medical College</td>
</tr>
<tr>
<td>Casey Osuolala</td>
<td>II</td>
<td>Georgetown University</td>
</tr>
</tbody>
</table>

### Medicine-Pediatrics Program

**Fourth Year Residents**

<table>
<thead>
<tr>
<th>Name</th>
<th>PGY Level</th>
<th>Medical School Attended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Erin Hickey</td>
<td>III</td>
<td>University of Colorado</td>
</tr>
<tr>
<td>Stephanie Keller</td>
<td>III</td>
<td>McGill University</td>
</tr>
<tr>
<td>Jennifer Stedman</td>
<td>III</td>
<td>Rush Medical College</td>
</tr>
<tr>
<td>Daniel Tramonte</td>
<td>III</td>
<td>Stanford University</td>
</tr>
</tbody>
</table>

**Third Year Residents**

<table>
<thead>
<tr>
<th>Name</th>
<th>PGY Level</th>
<th>Medical School Attended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Danielle Barrett</td>
<td>II</td>
<td>University of Illinois</td>
</tr>
<tr>
<td>Nathaniel Georges</td>
<td>II</td>
<td>Harvard Medical School</td>
</tr>
<tr>
<td>Sanjeep Jumani</td>
<td>II</td>
<td>Rutgers University</td>
</tr>
<tr>
<td>Benjamin Wieser</td>
<td>II</td>
<td>University of Texas, Southwestern</td>
</tr>
</tbody>
</table>

**Second Year Residents**

<table>
<thead>
<tr>
<th>Name</th>
<th>PGY Level</th>
<th>Medical School Attended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Danielle Anderson</td>
<td>II</td>
<td>University of Utah</td>
</tr>
<tr>
<td>Omar Jami</td>
<td>II</td>
<td>University of Michigan</td>
</tr>
<tr>
<td>Ilan Krieger</td>
<td>II</td>
<td>University of Maryland</td>
</tr>
<tr>
<td>Natalie Mulfinger</td>
<td>II</td>
<td>University of Washington</td>
</tr>
</tbody>
</table>

**First Year Residents**

<table>
<thead>
<tr>
<th>Name</th>
<th>PGY Level</th>
<th>Medical School Attended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ems-Fahim</td>
<td>II</td>
<td>University of Michigan</td>
</tr>
<tr>
<td>Collin Hanson</td>
<td>II</td>
<td>Ronald Reagan Medical School</td>
</tr>
<tr>
<td>Sarah Mathis</td>
<td>II</td>
<td>University of Minnesota</td>
</tr>
<tr>
<td>Rebecca Omer</td>
<td>II</td>
<td>Dartmouth Medical School</td>
</tr>
</tbody>
</table>

**Dermatology Residents**

**Third Year Residents**

<table>
<thead>
<tr>
<th>Name</th>
<th>PGY Level</th>
<th>Medical School Attended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clifford Hayman</td>
<td>IV</td>
<td>University of Chicago</td>
</tr>
<tr>
<td>Emily Lauter</td>
<td>IV</td>
<td>Columbia University</td>
</tr>
<tr>
<td>Jared Mitchko</td>
<td>IV</td>
<td>University of Florida</td>
</tr>
</tbody>
</table>

**Second Year Residents**

<table>
<thead>
<tr>
<th>Name</th>
<th>PGY Level</th>
<th>Medical School Attended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Julia Day</td>
<td>III</td>
<td>University of Pennsylvania</td>
</tr>
<tr>
<td>Aruz Desai</td>
<td>III</td>
<td>University of Central Florida</td>
</tr>
<tr>
<td>Esther Kern</td>
<td>III</td>
<td>University of Central Florida</td>
</tr>
</tbody>
</table>

**First Year Residents**

<table>
<thead>
<tr>
<th>Name</th>
<th>PGY Level</th>
<th>Medical School Attended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Margaret Boyle</td>
<td>II</td>
<td>Saint Louis University</td>
</tr>
<tr>
<td>Margaret Brown</td>
<td>II</td>
<td>University of Chicago</td>
</tr>
<tr>
<td>Eric Weiss</td>
<td>III</td>
<td>Northwestern University</td>
</tr>
<tr>
<td>William Weber</td>
<td>III</td>
<td>Northwestern University</td>
</tr>
</tbody>
</table>
Emergency Medicine Residents

Second Year Residents (cont.)

<table>
<thead>
<tr>
<th>NAME</th>
<th>PGY LEVEL</th>
<th>MEDICAL SCHOOL</th>
<th>RESIDENCY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jasmine Ginn</td>
<td>II</td>
<td>Howard University</td>
<td></td>
</tr>
<tr>
<td>Derran Gupte</td>
<td>II</td>
<td>University of Virginia</td>
<td></td>
</tr>
<tr>
<td>Deuter Groves</td>
<td>II</td>
<td>Ohio University</td>
<td></td>
</tr>
<tr>
<td>Samantha Hay</td>
<td>II</td>
<td>Virginia Commonwealth University</td>
<td></td>
</tr>
<tr>
<td>Mike Hernandez</td>
<td>II</td>
<td>Columbia University</td>
<td></td>
</tr>
<tr>
<td>Michael McCarron</td>
<td>II</td>
<td>University of Chicago</td>
<td></td>
</tr>
<tr>
<td>Jonathan Doolin</td>
<td>II</td>
<td>University of Chicago</td>
<td></td>
</tr>
<tr>
<td>David Patel</td>
<td>II</td>
<td>University of Illinois, Chicago</td>
<td></td>
</tr>
<tr>
<td>Arthur Pope</td>
<td>II</td>
<td>Loyola University</td>
<td></td>
</tr>
<tr>
<td>Virginia Rosan</td>
<td>II</td>
<td>University of Michigan</td>
<td></td>
</tr>
<tr>
<td>Senthir Terva</td>
<td>II</td>
<td>Columbia University</td>
<td></td>
</tr>
</tbody>
</table>

First Year Residents

<table>
<thead>
<tr>
<th>NAME</th>
<th>PGY LEVEL</th>
<th>MEDICAL SCHOOL</th>
<th>RESIDENCY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Robert Allman</td>
<td>I</td>
<td>Emory University</td>
<td></td>
</tr>
<tr>
<td>Kate Anderson</td>
<td>I</td>
<td>University of Vermont</td>
<td></td>
</tr>
<tr>
<td>Roz Charles</td>
<td>I</td>
<td>Washington University</td>
<td></td>
</tr>
<tr>
<td>Abigail Clinton-Duha</td>
<td>I</td>
<td>University of Rochester</td>
<td></td>
</tr>
<tr>
<td>Ryan DeCamp</td>
<td>I</td>
<td>University of Minnesota</td>
<td></td>
</tr>
<tr>
<td>Anir Frost</td>
<td>I</td>
<td>Northwestern University</td>
<td></td>
</tr>
<tr>
<td>Mohamed Honnedea</td>
<td>I</td>
<td>University of California, San Francisco</td>
<td></td>
</tr>
<tr>
<td>Kristina Lewis</td>
<td>I</td>
<td>University of California, San Francisco</td>
<td></td>
</tr>
<tr>
<td>Giana McFadden</td>
<td>I</td>
<td>University of Chicago</td>
<td></td>
</tr>
<tr>
<td>Alyson Petrinian</td>
<td>I</td>
<td>University of Washington</td>
<td></td>
</tr>
<tr>
<td>Danny Semman</td>
<td>I</td>
<td>University of Michigan</td>
<td></td>
</tr>
<tr>
<td>Cameron Smith</td>
<td>I</td>
<td>University of Chicago</td>
<td></td>
</tr>
<tr>
<td>Missy Smith</td>
<td>I</td>
<td>Michigan Medical College</td>
<td></td>
</tr>
<tr>
<td>Tunhao Songtian</td>
<td>I</td>
<td>Duke University</td>
<td></td>
</tr>
<tr>
<td>James Zbuch</td>
<td>I</td>
<td>University of Chicago</td>
<td></td>
</tr>
<tr>
<td>Emily Williams</td>
<td>I</td>
<td>University of Connecticut</td>
<td></td>
</tr>
</tbody>
</table>

Cardiology

Cardiovascular Diseases

<table>
<thead>
<tr>
<th>NAME</th>
<th>PGY LEVEL</th>
<th>MEDICAL SCHOOL</th>
<th>RESIDENCY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rame Zippari</td>
<td>III</td>
<td>University of Chicago</td>
<td></td>
</tr>
<tr>
<td>Parisa Mohamadi</td>
<td>III</td>
<td>University of Chicago</td>
<td></td>
</tr>
<tr>
<td>Mark M. Sadiq</td>
<td>III</td>
<td>University of Chicago</td>
<td></td>
</tr>
<tr>
<td>Daniel A. Patel</td>
<td>III</td>
<td>University of Chicago</td>
<td></td>
</tr>
<tr>
<td>Natalie Reineke</td>
<td>III</td>
<td>Loyola University</td>
<td></td>
</tr>
</tbody>
</table>
Innovation and discovery abound in the Department of Medicine. Over the past year, Medicine investigators led or participated in many collaborative studies and continued to translate basic research to clinical practice with multiple seminal discoveries, publishing over 1600 impactful papers with dozens in high profile journals.

Below is a sampling of some recent high impact papers.

**Annals of Internal Medicine**
- Saunders MR, Turner BJ. Unequal pay for equal work: Where are we now? Annals of Internal Medicine 169(9), 2019

**Journal of the American Medical Association (JAMA)**
- Feld L, Glick LB, Cifu AS. Diagnosis and management of Crohn's disease. JAMA 321(8), 2019
- Gupta N, Kuper SS, Davis AM. Colorectal cancer screening. JAMA 321(2), 2019
- Polito BN, Glick LB, Brawley OW. Ensuring equity and justice in the polio vaccine. JAMA 321(18), 2019
- Andersson R, Davis AM. Incidental pulmonary nodules detected on CT images. JAMA 320(20), 2018
- Oosterhuis W, Cifu AS. Management of posttraumatic stress disorder. JAMA 320(2), 2018
- Cifu AS. Advice for a student starting medical school. JAMA 320(8), 2018
- Gupta A, Cifu AS. Khamis S. Diagnosis and treatment of cystic fibrosis infection. JAMA 320(10), 2018

**Journal of Clinical Investigation**

**Nature**

**Nature Communications**

**Sciences**
- Sages HL, Collins CW, and stem cell transplant. Science 363(6424), 2019
The Department of Medicine’s Women’s Committee serves as an important mechanism for networking, mentorship, professional development and advocacy for our female faculty. With leadership from Julie Oyler, MD, the Committee is comprised of women from multiple sections within the Department, all of whom are amazing leaders, scientists, clinicians and educators in their own right.

The Women’s Committee enjoyed several successes in FY19:

• Published two issues of the “Women at the Forefront” newsletter, highlighting the accomplishments of women faculty and trainees.

• Conducted a workshop on “Women and Negotiation,” featuring Alice F. Stuhlmacher, PhD, Professor, Industrial-Organizational Psychology Chair, Department of Psychology at DePaul University.


• Increased recognition for Department of Medicine women faculty by tracking and nominating women for internal and external awards.

• Hosted Eileen Reynolds, MD, the Vice Chair for Education and Chief of the Division of General Medicine, Beth Israel Deaconess Medical Center and Harvard Medical School as the 2019 Women’s Committee’s Grand Round Speaker who spoke on “Gender Equality in Academic Medicine: Where we are, and Charting a Path Forward.”

The Diversity and Inclusion Committee serves to focus and promote activities that improve recruitment, retention, scholarship, leadership, and mentorship of qualified minority students, housestaff and faculty in an environment rich with cultural awareness, and sensitivity. In FY19, the Department had a commanding presence at the Annual Medical Education Conference of the Student National Medical Association (SNMA) in Philadelphia, the national Latino Medical Student Association (LMSA) conference held in Lubbock, Texas and the Medical Organization for Latino Advancement (MOLA) in Chicago.

Other Diversity and Inclusion Committee highlights from FY19 include:

• The Committee delivered the first housestaff micro-climate survey, studying the inclusivity of the climate for residents who are under-represented in medicine (UIM).

• Delivered Medicine Grand Rounds entitled “Intersectionality: Understanding Integrated Identities of LGBTQ People of Color Impacting Care”, led by Marshall H. Chin MD, Stephania B MS2, Susana Howard MS2, Monica Vela, MD, and Donald Bell.

• Kamala Cotts MD – Appointed as liaison to the BSD Diversity and Inclusion Committee, named as the recipient of the 2019 DOM Diversity and Inclusion Award and the 2019 Midwest SGM Advocacy Award.

• Monica Vela, MD – Recipient of the 2019 PhD De Chavez LMSA National Mentor of the Year Award and the 2019 University of Chicago Diversity Leadership Award.

• Edwin K. McDonald IV, MD – Delivered the Summer Bowman Society Lecture at the University of Chicago Pritzker School of Medicine.

• Monica Peak, MD, MPH – Honored with the 2018 Schweitzer Leadership Award from the Health and Medicine Policy Research Group, in recognition of her efforts to mitigate the social determinants of health, and whose service has influenced and inspired others.