

A photograph of the Baylor St. Luke's Medical Center building at dusk. The building is a modern, multi-story structure with a glass facade that reflects the sky and surrounding environment. The name "Baylor St. Luke's Medical Center" is visible on the upper left side of the building. A dark blue rectangular box is positioned in the upper right corner of the image.

Baylor
College of
Medicine

Baylor St. Luke's
Medical Center

DEPARTMENT OF MEDICINE

2022 ANNUAL REPORT

The Margaret M. and Albert B. Alkek
DEPARTMENT OF MEDICINE
ACADEMIC ANNUAL REPORT 2022

Baylor College of Medicine

CHAIR'S MESSAGE

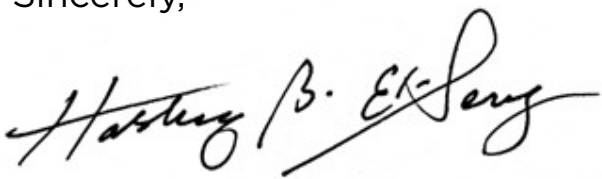
Dear Colleagues:

It is my pleasure to present to you the Department of Medicine's annual report for the year 2022. I am proud to say that we have achieved many significant milestones in the past year.

In the past year, we have made strategic investments in research, clinical care programs, medical education and training. These investments have allowed us to expand our capabilities and improve our offerings, which has resulted in a stronger competitive position for our patients, trainees and workers.

Looking ahead, we are optimistic about the future and are confident in our ability to continue delivering value to our patients and shareholders. We remain committed to innovation, integrity and excellence in our business practices and we are excited about the opportunities that lie ahead.

Sincerely,

A handwritten signature in black ink, reading "Hashem B. El-Serag". The signature is fluid and cursive, with the first name "Hashem" and last name "El-Serag" being the most prominent parts.

Hashem B. El-Serag, M.D., M.P.H.



Hashem B. El-Serag
M.D., M.P.H.

2022 ORGANIZATIONAL OVERVIEW

CHAIR

Hashem B. El-Serag, M.D., M.P.H.

OFFICE OF THE CHAIR

Vice Chair for Clinical Affairs

Vice Chair for Education

Vice Chair for Faculty and Staff Development

Vice Chair for Harris Health System/Ben Taub Hospital

Vice Chair for Quality Improvement and Innovation

Vice Chair for Research

Vice Chair for Veterans Affairs

Mandeep Bajaj, M.B.B.S.

Richard J. Hamill, M.D.

Sandra Haudek, Ph.D.

Hemant Roy, M.D.

Kyler Godwin, Ph.D.

Rolando Rumbaut, M.D., Ph.D.

Biykem Bozkurt, M.D., Ph.D.

SECTIONS

Cardiology

Cardiovascular Research

Endocrinology, Diabetes, and Metabolism

Epidemiology and Population Sciences

Gastroenterology and Hepatology

General Internal Medicine

Geriatrics and Palliative Medicine

Health Services Research

Hematology and Oncology

Immunology, Allergy, and Rheumatology

Infectious Diseases

Nephrology

Pulmonary, Critical Care and Sleep Medicine

Transition Medicine

Chief of Section

Christie Ballantyne, M.D.

Christie Ballantyne, M.D.

Mark Herman, M.D.

Christopher Amos, Ph.D.

Fasiha Kanwal, M.D., M.S.H.S.

Joslyn Fisher, M.D., M.P.H.

Aimee Garcia, M.D.

Laura Petersen, M.D., M.P.H., F.A.C.P.

Martha Mims, M.D.

Rashmi Maganti, M.D.

Thomas Giordano, M.D., M.P.H.

Wolfgang Winkelmayer, M.D., Sc.D.

Ivan Rosas, M.D.

Cynthia Peacock, M.D.

The Department of Medicine at Baylor College of Medicine is the professional home to over 1,800 professionals distributed across 14 sections. We have campus sites at Baylor St. Luke's Medical Center, the McNair Campus, Michael E DeBakey VA Medical Center, Harris Health System, Texas Children's Hospital, and the Pavilion for Women. We also have strong associations with numerous centers, programs, and organized research units. Our team is thrilled to celebrate our departmental achievements in research, patient care, and medical education and training.

THE DEPARTMENT OF MEDICINE

RESEARCH

In 2022, the research efforts of our department faculty were supported by \$120.3M in total extramural research funding including:

- \$77.2M from the NIH
- \$8.5M from the Veteran's Administration
- \$12.2M from other federal agencies
- \$17.7M from state and other non-federal sources
- \$4.7M from industry support

Two of our sections have NIH T32 grants to support research training in the fields of gastroenterology and infectious diseases.

CLINICAL CARE

Our physicians practice in Baylor St. Luke's Medical Center, the McNair Campus, Ben Taub Hospital, Michael E. DeBakey VA Medical Center and Houston Methodist Hospital. Many specialty and subspecialty services provided at these locations are nationally recognized as sites of premier clinical quality.

Patients receive state-of-the-art consultations, diagnoses and compassionate care from our world-renowned clinical staff. Our doctors specialize in diagnosing and treating various diseases ranging from heart disease, diabetes and allergies to breast cancer and cystic fibrosis. Teens with developmental disabilities transitioning into adult care receive personalized, quality care and social services through our unique Transition Medicine group.

EDUCATION

The Department of Medicine's education efforts train the next generation of leaders in medicine through medical school, graduate medical training, fellowships and internships. The Department of Medicine provides undergraduate medical education (UME) students a balance of training, exposure, and experience, which prepares them for graduate programs. Our faculty teaches two-thirds of the UME courses. Students first attend foundational sciences curriculum courses and then their clinical curriculum courses. Students choose one sub-internship, seven core clerkships and five or six clinical electives.

Students within the Internal Medicine sub-internship develop skills required for their internship. During these rotations, medical students experience increased autonomy, acting as interns supervised directly by senior residents and the attending physician. Students hone in on their history and physical skills, write orders and independently develop diagnostic and therapeutic plans. They expand their medical knowledge by using experiential and self-directed learning.

Our residencies are authorized by the Accreditation Council for Graduate Medical Education and its respective Residency Review Committees. We enroll highly competitive applicants each year and continue to match outstanding residents. Our graduates become leaders in Internal Medicine and its specialties, both academically and in clinical practice.

Beyond residency training, the Department of Medicine offers fellowships for two to four years of training in each major subspecialty, such as gastroenterology, cardiovascular disease, etc. This experience allows physicians to learn unique concepts, information and procedures for a particular subspecialty, with an opportunity to research if desired. Our department has more than 220 residents and more than 150 fellows.

Affiliations with leading research and healthcare institutions in the Texas Medical Center provide access to diverse people and resources. Our students and trainees can access numerous patients during these clerkships in various settings through our affiliation with eight leading healthcare institutions—all located in the world's largest medical center.

SECTION OF IMMUNOLOGY, ALLERGY, AND RHEUMATOLOGY

SECTION ACCOMPLISHMENTS

The Section of Immunology, Allergy, and Rheumatology continues to grow and lead in the state of Texas both clinically and academically. We are committed to providing the highest level of care for our patients with immunologic, allergic and a multitude of autoimmune diseases by offering evidence-based therapeutics and potential novel therapeutics based on disease mechanisms. We are engaging in leading edge research in Asthma, Immune mechanisms, autoimmune disease and fibrosis.

The section is committed to providing the highest level of care for our patients with immunologic, allergic and a multitude of autoimmune diseases by offering evidence-based therapeutics and potential novel therapeutics based on disease mechanisms.

The high quality of patient care was provided throughout the pandemic and the telehealth initiative was successfully implemented across practice locations, making access to care faster and streamlined for urgent clinical issues. We are committed to mentoring and training medical students, residents and fellows in each discipline.

There are 22 faculty in IAR across pavilions at Baylor St. Luke's, Michael DeBakey Veterans Medical Center, and Harris Health. Multiple of our Physicians and Faculty have been recognized as top doctors.

- Rheumatology awarded "That's The Way" All-Star for January 2021- March 2021, reflecting most improved patient satisfaction scores. August 25, 2021.
- Expanded clinical enterprise to cover in-patient Rheumatology consults at Baylor St Luke's Medical Center beginning in February 2022.
- Rheumatology faculty have collaborated with hospitalists and specialists to provide timely care for patients with complex multisystem diseases.
- Invited speaker: Rheumatology Faculty Dr. Ray Zhou, M.D., Clinical Assistant Professor in Internal Medicine-Rheumatology, University of Michigan-Ann Arbor, Michigan. MSCS Grand Rounds - NETs and Autoantibodies in COVID-19. November 29, 2021.
- Expanded clinical enterprise to the Michael E. DeBakey Veterans Medical Center where four faculty members are providing healthcare and research to veterans.
- Recruitment of Dr. Ugo Awa to Harris Health outpatient clinics providing rapid access to rheumatology care in the county.
- The Rheumatology 5-year board pass rate is 100% for our fellows.
- There has been a 40% growth in revenue of the Allergy clinic each year.



SECTION CHIEF
Rashmi Maganti, M.D.

FACULTY

Section Leadership

- Rashmi Maganti, M.D., Associate Professor, Interim Section Chief, Baylor Medicine Rheumatology Medical Director
 - Sanjiv Sur, M.D., Professor, and Director of Allergy and Immunology and Medical Director at Baylor Medicine McNair Allergy and Immunology
 - David B. Corry, M.D., Professor, and Chief, of Allergy & Immunology at Michael E. DeBakey Veterans Medical Center
 - Sandeep K Agarwal, M.D., Ph.D., Director, Fellowship
-

FACULTY

Professor

- David B. Corry, M.D.
- Sanjiv Sur, M.D.

Professor Emeritus

- Donald M Marcus, M.D.
- Li-Yuan Yu-Lee, M.D.

Associate Professor

- Sandeep K Agarwal, M.D., Ph.D.
- Rashmi Maganti, M.D.

Assistant Professor

- Ugo Awa, M.D.
- Kalpana Bhairavarasu, M.D.
- Sana Hasan, M.D.
- Grace Hsiao-Wei Lo, M.D., M.S.

- Onome Ifoeze, M.D.
- Shalini Jha, M.D.
- Evan Li, M.D.
- Anjali Mehta, M.D.
- Dona Poullose, M.D.
- Antony Rodriguez, M.D.
- Akshita Sharma, M.D.
- Tiphany Vogel, M.D., Ph.D.
- Michael Wu, M.D.

Instructor

- Sebastian Bruera, M.D.
 - Annamalai Govindhan, Ph.D.
 - Koa Hosoki, M.D.
 - Mesias Pedroza, Ph.D., B.S.
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HONORS AND ACHIEVEMENTS

Sandeep Agarwal, M.D., Ph.D.

- Incorporating patient perspectives and treatment advances into the management of psoriatic arthritis,” PRIME CME online with William Rigby, M.D.
- Providing personalized care for patients with axial spondyloarthritis in an era of new treatment options,” PRIME CME online with William Rigby, M.D.
- Top Doctor, *Houstonia Magazine*

Kalpana Bhairavarasu, M.D.

- Top Doctor, *Houstonia Magazine*

David B. Corry, M.D.

- PLoS Biology top 2% of scientists most frequently cited worldwide, 2021
- Facilitator in Graduate School’s Keystone 1 course in Immunology and Microbiology. Earlier designed and developed this course along with three other course directors

Sana Hasan, M.D.

- Program Evaluation Committee Member, Baylor College of Medicine/ Texas Children's Hospital Allergy/ Immunology Fellowship

Onome Ifoeze, M.D., B.S.

- Course Director, VA Rheumatology MEMED559A Medical Student Elective
- Program Evaluation Committee Member, Baylor College of Medicine, Rheumatology Fellowship Program
- Clinical Competency Commits Member, Baylor College of Medicine, Rheumatology Fellowship Program

Evan Li, M.D.

- Lecturer, Department of Medicine Grand Rounds, "Covid vaccine Allergy," September 2021
- Associate Program Director, Allergy, and Immunology Fellowship Program

Grace Wei Lo, M.D.

- Top Doctor, *Houstonia Magazine*

Rashmi Maganti, M.D.

- Top Doctor, *Houstonia Magazine*
- Top Doctor, Castle Connolly

Sanjiv Sur, M.D.

- Member, BCM AI Fellowship Program Scientific Advisory Committee, Baylor College of Medicine/ Texas Children's Hospital Allergy/Immunology Fellowship
- Facilitator in Graduate School's Keystone 1 course in Immunology and Microbiology. Earlier designed and developed this course along with three other course directors

Tiphonie Vogel, M.D., PhD

- Recipient, American Association of Immunologists Careers in Immunology Fellowship Award, September 2021
- Invited Lecturer, Pediatric "Basic Science Year in Review." American College of Rheumatology Annual Meeting, November 2021
- Member, ACR Annual Meeting Planning Committee
- Member, ACR Basic Science Team
- Voting Member, ACR Vaccine Guideline Team
- Recipient, Texas Children's Hospital High Impact Publication Award, First Author, May 2022

Michael Wu, M.D.

- Mentor, USSONAR

RESEARCH ACTIVITIES

Grants

David B. Corry, M.D.

Oskar Fischer Project; Lichenoid Cerebritis in Alzheimer's Disease; \$325,000.

Grace Hsiao-Wei Lo, M.D., M.S.

NIH/NIAMS: Interpretation and Utility of Novel Composite Structural Endpoints of Cumulative Damage and Disease Activity in Knee Osteoarthritis, \$158,787

Publications (20)

- Arthritis Care and Research (IF **4.8**): 5
- Rheumatology (IF **7.6**): 9
- American Journal of Transplant (IF **8.1**): 3
- Journal of Clinical Immunology (IF **8.3**): 3
- Journal of Allergy and Clinical Immunology (IF **10.8**): 8
- Journal of Immunology (IF **5.4**): 9
- JAMA Network Open (IF **8.5**): 1
- Asthma & Immunology (IF **6.347**): 1
- Frontiers in Immunology (IF **8.786**): 1
- Respiratory Research (IF **7.162**): 1
- Science Reports (IF **4.996**): 1
- Science Immunology (IF **30.63**): 1
- Immunity (IF **31.74**): 1
- Cochrane Database System (IF **12.008**): 1
- Semin Arthritis Rheumatology (IF **4.7**): 3
- Arthritis and Rheumatology (IF **11**): 1
- Arthritis Care and Research (IF **5.1**): 10
- Occupational and Environmental Medicine (IF **4.9**): 1
- Antimicrobial Agents and Chemotherapy (IF **5.191**): 9
- Current Opinion in Microbiology (IF **6.94**): 10

CENTERS

Biology of Inflammation Center

Founded in 2002, the Biology of Inflammation Center is dedicated to the support of translational immunology research at Baylor through a faculty that includes investigators from diverse fields with broad research interests within the field of immunology. The Center is generously funded through the Houston philanthropic community.

ADDITIONAL HIGHLIGHTS



Rheumatology Faculty & Staff

"That's The Way" All-Star Award January 2021-March 2021."

Awarded - August 25, 2021

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College of
Medicine