The year 2018 has been a year of transitions and successes that will serve as the foundation for future growth of The Section of Immunology, Allergy and Rheumatology. We are a small faculty, but truly represent the “little engine that could”. Our faculty, trainees, and staff make important contributions to the education, research and clinical missions of Baylor College of Medicine, which we herein recognize.

First, I would like to thank Dr. David Corry for his leadership and service to our Section. Dr. Corry has served as Chief of our Section since 2011. Under his leadership, the section has developed a strong foundation of excellence in medical education, research and patient care upon which we will grow in coming years. In February of 2018, Dr. Corry transitioned to the role of Vice-Chair of Immunology in the Department of Pathology, while maintaining many of his commitments to our Section. As such, I was appointed Chief of the Section of Immunology, Allergy and Rheumatology in February of 2018.

In the past year, faculty members in the Section have published 46 peer-reviewed manuscripts. Research programs were supported by 14 grants from the National Institutes of Health, CPRIT, and foundations, including one grant supporting the start of our clinic trials program. Faculty members have also given 12 invited seminars to local, national and international audiences. Finally, our Section is the home of the Biology of Inflammation Center, which provides research and educational support for immune related diseases across the entire College.

I would also like to recognize all of the important contributions that our Section makes in the clinical and educational missions. Our physicians provide outstanding, patient-centered care across all of our clinical pavilions, including the Baylor Clinic, Baylor St. Luke’s Medical Center, the Michael E. DeBakey VA Medical Center, Texas Children’s Hospital, Harris Health Smith Clinic and Ben Taub General Hospital. All levels of trainees, including medical students, graduate students, physician-assistant students, internal medicine residents, postdoctoral fellows and clinical fellows benefit greatly from our commitment to mentoring and teaching. Our clinical fellowship training programs, led by Dr. Agarwal (Rheumatology) and Dr. Corry (Immunology and Allergy), are completely dedicated to the clinical and scholarly development of our fellows and continue to train outstanding physicians.

This report contains some of achievements of the year past. This is our foundation from which we will build the future of Immunology, Allergy and Rheumatology at Baylor College of Medicine. I am honored and excited to lead our Section into a bright future.

Sandeep K. Agarwal, M.D., Ph.D.
Chief, Section of Immunology, Allergy and Rheumatology
Rheumatology Fellowship Program Director
Director, Biology of Inflammation Center
Cullen Trust for Healthcare Endowed Chair in Immunology
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A. LIST OF FACULTY
(alphabetical)

Sandeep K. Agarwal, M.D., Ph.D., Chief, Section of Immunology, Allergy and Rheumatology
Joan Appleyard, M.D.
David B. Corry, M.D., Director of Allergy and Clinical Immunology
Sana Hasan, M.D.
Grace Hsiao-Wei Lo, M.D., M.S.
Rashmi Maganti, M.D.
Donald Marcus, M.D., Professor Emeritus
Marissa Meissner, M.D.
Frank Orson, M.D.
Eun Joo Park, M.D.
Tara Rizvi, M.B.B.S.
Antony Rodriguez, Ph.D.
Roger D. Rossen, M.D.
Tiphanie Vogel, M.D.
Li-Yuan Yu-Lee, Ph.D.
B. PUBLICATIONS

JOURNAL ARTICLES


Corry DB, Diehl G, Kheradmand F. Protective Role of gd T cells in Cigarette Smoke and Influenza Infection. *Mucosal Immunology* 2017; 11(3):894-908 PMCID: PMC5930147


BOOKS, BOOK CHAPTERS, and VIDEOS


C. PRESENTATIONS AND SEMINARS

Sandeep K. Agarwal, M.D., Ph.D.
1. “Joint Pain and Arthritis”, Weekley YMCA Silver Sneakers Seminar, Houston, TX. October 2017
2. “Case Based Problem Solving in Psoriatic Disease and Atopic Dermatitis” PRIME Federal Seminar Series, Orlando, FL. October 2017
3. “Case Based Problem Solving in Psoriatic Disease and Atopic Dermatitis” PRIME Federal Seminar Series, Chicago, IL. October 2017
4. “Autoimmune interstitial lung disease”, BCM Pulmonary Seminar, Houston, TX. December 2017
5. “Update on Psoriatic Arthritis”, Northwest Houston Medical Center Grand Rounds. Houston, TX. April 2018.

Joan Appleyard, M.D.

David Corry, M.D.
2. The coagulation-immune nexus in allergic inflammation, Suzhou, China, December 2017

Tiphanie Vogel, M.D.
D. HONORS AND AWARDS

Sandeep K. Agarwal, M.D., Ph.D.
1. Appointed Chief, Section of Immunology, Allergy and Rheumatology
2. Cullen Trust for Healthcare Endowed Chair in Immunology (2018- current)
3. Rheumatology Research Foundation Study Section C, Chairman
4. Scleroderma Foundation, Grant Review Study Section, Chairman
5. Serving as a Faculty Senator in the Baylor College of Medicine Faculty Senate

Joan Appleyard, M.D.
1. Invited to join Spondyloarthritis research and treatment network (SPARTAN)

David Corry, M.D.
1. Clarence and Irene H. Fulbright Chair in Pathology (March, 2018- current)
2. Appointed Vice Chair for Immunology, Department of Pathology & Immunology
3. Serving as Executive Director, Baylor Scott and White Research Institute-Baylor College of Medicine Affiliation

Grace Lo, M.D., M.S.
1. Editorial board member for Osteoarthritis and Cartilage

Rashmi Maganti, M.D.
1. Appointed Medical Director of Rheumatology Clinic at the Baylor College of Medicine Faculty Group Practice

Antony Rodriguez, Ph.D.
1. Gillson Longenbaugh Foundation Award

Tiphanie Vogel, M.D., Ph.D.
1. Thrasher Early Career Award
2. The Kelly Award for Juvenile Arthritis Research
3. Arthritis National Research Foundation Scholar
4. Editorial board member, Frontiers in Immunology, Primary Immunodeficiencies
5. Editorial board member, Frontiers in Pediatrics, Pediatric Immunology
E. PROFESSIONAL ORGANIZATIONS

Sandeep K. Agarwal, M.D., Ph.D.
   1. American Association of Immunology – Member
   2. American College of Rheumatology – Member
   3. American Thoracic Society – Member

Joan Appleyard, M.D.
   1. American College of Rheumatology – Member
   2. Spondylitis Research and Treatment Network (SPARTAN) – Member

David Corry, M.D.
   1. American Association of Allergy, Asthma, and Immunology – Member
   2. American Clinical and Climatological Association – Member
   3. American Society for Clinical Investigation – Member
   4. Association of American Physicians – Member
   5. Society for Mucosal Immunology – Member

Sana Hasan, M.D.
   1. Allergy, Asthma & Immunology Society
   2. The Greater Houston Allergy, Asthma & Immunology Society

Onome Ifoeze (Whiteru), M.D.
   1. Alliance for Academic Internal Medicine – Member
   2. American College of Physicians – Member
   3. American College of Rheumatology – Member
   4. S.L.E. Lupus Foundation – Member

Grace Lo, M.D., M.S.
   1. American College of Rheumatology – Member
   2. Osteoarthritis Research Society International – Member

Rashmi Maganti, M.D.
   1. American College of Rheumatology – Member

Donald Marcus, M.D.
   2. American College of Rheumatology – Master
Antony Rodriguez, Ph.D..
3. Genetics Society - Member

Tiphanie Vogel, M.D., Ph.D.
1. American Academy of Pediatrics—Member
2. American College of Rheumatology—Member
   a. AMIGO Mentorship Program—Mentor and Mentee
3. American Association of Immunologists—Member
4. Childhood Arthritis and Rheumatology Research Alliance—Member
   a. Scientific Advisory Committee—Member
5. Clinical Immunology Society—Member
6. Federation of Clinical Immunology Societies—Member
F. MEDIA RELEASES

Sandeep K. Agarwal, M.D., Ph.D.
1. NIH-NIAMS Spotlight on Research. Interview by NIH-NIAMS regarding publication in Arthritis and Rheumatology.
https://www.niams.nih.gov/newsroom/spotlight-on-research/researchers-identify-potential-biomarker-serious-scleroderma

David Corry, M.D.
1. “David vs Goliath: how small molecule can defeat asthma attacks”
   Baylor College of Medicine, From the Labs
   https://blogs.bcm.edu/2018/06/12/david-vs-goliath-how-a-small-molecule-can-defeat-asthma-attacks/

Grace Lo, M.D., M.S.
1. Online report by Helio.com summarizing and highlighting publication in Arthritis Care and Research on crepitus and symptomatic knee osteoarthritis.
   https://www.healio.com/rheumatology/osteoporosis-and-bone-disorders/news/online/%7Bb40c17a6-5591-4a17-a901-57fab25308f%7D/creaky-knees-can-predict-symptomatic-oa

2. Online video by Arthritis Care and Research highlighting publication in Arthritis Care and Research on crepitus and symptomatic knee osteoarthritis.
   https://vimeo.com/246493963
G. GRANTS

Sandeep K. Agarwal, M.D., Ph.D.
1. Cadherin-11 Regulation of Dermal Fibrosis and Macrophage Function
   Funding Agency: NIH/NIAMS, R01, 1R01AR062056-01A1
   Role : Principal Investigator

2. Targeting STAT3 in systemic sclerosis and dermal fibrosis
   Established Investigator Award
   Funding Agency: Scleroderma Foundation
   Role : Principal Investigator

David Corry, M.D.
1. Fungal Pathogenesis of Moderate to Severe Asthma
   Funding Agency: NIH; R01, AI135803
   Role : Principal Investigator

2. Immunology Scientist Training Grant
   Funding agency: NIH/NIAID, T32, AI053831
   Role : Principal Investigator

3. Mechanism and function of Let-7, a novel modulator of Th17-dependent emphysema
   Funding agency: NIH/NHLBI, R01 HL140398
   Role : Principal Investigator

Grace Lo, M.D., M.S.
1. Feasibility of a Novel Approach to Studying Early Knee Osteoarthritis: an Offspring Study
   Funding Agency: NIH/NIAMS, R03 AR069323
   Role : Principal Investigator

2. Modifiable Risk Factors for Incident and Progressive Early Knee Osteoarthritis (Lo)
   Funding Agency: NIH/NIAMS, K32, 1K23AR062127-01
   Role : Principal Investigator
Rashmi Maganti, M.D.
1. A randomized, double-blind, placebo controlled multicenter phase 2 dose-ranging study to assess the safety and efficacy of multiple VA736 doses administered subcutaneously in patients with moderate to severe primary Sjogren’s syndrome
   Funding Agency: Novartis Pharmaceuticals
   Role: Site Principal Investigator

Antony Rodriguez, Ph.D.
1. Role of let-7 microRNA in chronic obstructive pulmonary disease
   Funding Agency: Gillson Longenbaugh Foundation Award
   Role: Principal Investigator

2. Mechanism and function of let-7, a novel modulator of Th17-dependent emphysema
   Funding agency: NIH/NHLBI, R01 HL140398
   Role: Co-Investigator

Tiphanie Vogel, M.D., Ph.D.
1. BRIDGE, Baylor Rheumatology Initiative: Developing and Guiding Engagement
   Funding Agency: Rheumatology Research Foundation Medical Student Preceptorship
   Role: Principal Investigator

2. Undiagnosed Diseases Network (UDN)
   Funding Agency: NIH, 1 U01 HG007709-01 (Brendan Lee, PI)
   Role: Co-Investigator

3. A Targeted Approach to Cytokine Blockade in Juvenile Arthritis (Vogel)
   Funding Agency: Thrasher Research Fund
   Role: Principal Investigator

4. Validating STAT3 as a Therapeutic Target in Arthritis (Vogel)
   Funding Agency: Arthritis National Research Foundation Grant
   Role: Principal Investigator
Li-yuan Yu-Lee, Ph.D.

1. Endothelial-to-osteoblast conversion in prostate cancer bone metastasis
   Funding Agency: NIH Multi-PI RO1; CA174798-06A1
   Role: Principal Investigator

2. Polo-like Kinase 1 as a Novel Molecular Target for the Treatment of Asthma
   Funding Agency: Biology of Inflammation Center
   Role: Principal Investigator

3. Regulation of Dormancy of Metastatic Prostate Cancer Cells by Bone Microenvironment
   Funding Agency: Cancer Prevention and Research Institute of Texas
   Role: Co-Investigator