

Baylor  
College of  
Medicine

MARGARET M. & ALBERT B. ALKEK  
DEPARTMENT OF  
**MEDICINE**  
PULMONARY  
CRITICAL CARE AND  
SLEEP MEDICINE

Pulmonary, Critical Care and Sleep Section  
Summary Report  
2019-2020

Ivan O. Rosas, MD  
Professor and Section Chief,  
Pulmonary, Critical Care and Sleep Medicine  
Lester and Sue Smith Chair in Lung Health  
Baylor College of Medicine

## Outline:

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2. Faculty
3. Clinical Services:
  - Ben Taub General Hospital (BTGH)
  - Michael E. DeBakey VA Medical Center (MEDVAMC)
  - Baylor Faculty Group Practice
  - Baylor St. Luke's Medical Center (BSLMC)
  - Pavilion for Women (PFW)
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## 1. Overview

The Pulmonary, Critical Care, and Sleep Medicine Section in the Department of Medicine oversees the clinical, education, and research activities in these three related disciplines at Baylor College of Medicine and its affiliated hospitals. Its 44 full-time faculty members direct these activities at Ben Taub Hospital/Harris County Hospital District, the Michael E. DeBakey VA Medical Center (MEDVAMC), the Baylor Faculty Group Practice, Baylor St. Luke's Medical Center (BSLMC), and the Pavilion for Women (PFW) at Texas Children's Hospital.

## 2. Faculty

(link to faculty website)

<https://www.bcm.edu/departments/medicine/sections-divisions-centers/pulmonary-critical-care-sleep-medicine>

| <b>NON-CLINICIAN RESEARCH FACULTY</b>             |   |   |
|---|---|---|
| <b>Name</b>                                       | <b>Rank</b>                             | <b>Primary research area</b>                    |
| Aladin Boriek PhD                                 | Professor                               | Mechanical signal transduction                  |
| Mustafa Atik MD                                   | Instructor                              | Airway diseases                                 |
| Konstantin Tsoyi PhD                              | Assistant Professor                     | Pulmonary                                       |
| <b>CLINICIAN FACULTY</b>                          |   |   |
| <b>(Listed based on primary site of practice)</b> |   |   |
| <b>Name</b>                                       | <b>Rank</b>                             | <b>Primary track/area of activity</b>           |
| <b>Ben Taub General Hospital</b>                  |   |   |
| Kalpalatha Guntupalli MD                          | Professor and Service Chief at Ben Taub | Pulmonary, Critical Care Sleep                  |
| Philip Alapat MD                                  | Assistant Professor                     | Pulmonary, Critical Care Sleep                  |
| Nicola Hanania MD                                 | Associate Professor                     | Pulmonary, Critical Care Asthma/COPD            |
| Elizabeth Guy MD                                  | Assistant Professor                     | Pulmonary, Critical Care Sleep and Tuberculosis |
| Resmi George NP (Nurse Practitioner)              | Clinical instructor                     | Pulmonary                                       |
| Dharani Narendra MD                               | Assistant Professor                     | Pulmonary, Critical Care and Ob Critical Care   |

|  |  |   |
|--|--|---|
| Purvesh Patel MD                           | Assistant Professor  | Pulmonary, Critical Care<br>Ultrasound/ECHO<br>ILD                                  |
| Pralay Sarkar MD                           | Assistant Professor  | Pulmonary, Critical Care<br>Ultrasound/ECHO   |
| <b>Michael E DeBakey VA Medical Center</b> |  |   |
| Venkata Bandi MD                           | Professor and Service Chief  | Pulmonary, Critical Care<br>Sleep and Interventional                                |
| Charlie Lan MD                             | Associate Professor<br>Associate Chief of Medical<br>Care Line,<br>MEDVAMC   | Pulmonary, Critical Care<br>Sleep   |
| Ray Lazarus MD                             | Assistant Professor  | Pulmonary, Critical Care<br>Interventional, Director of<br>Interventional Pulmonary |
| Steve Bujarski MD                          | Assistant Professor  | Pulmonary, Critical Care  |
| Farrah Kheradmand MD                       | Professor  | Pulmonary, Critical care<br>COPD and Lung Cancer<br>research                        |
| Lavannya Pandit MD                         | Assistant Professor  | Pulmonary, Critical Care<br>Pulmonary Hypertension                                  |
| Rolando Rumbaut MD PhD                     | Professor<br>Director, Center for<br>Translational Research on<br>Inflammatory Diseases &<br>Deputy Associate Chief of<br>Staff for Research,<br>MEDVAMC | Pulmonary, Critical Care<br>Microvascular research                                  |
| Amir Sharafkhaneh MD PhD                   | Professor  | Pulmonary, Critical Care<br>Sleep   |
| Supriya Singh MD                           | Assistant Professor  | Pulmonary, Critical care<br>Sleep   |
| Kanta Velamuri MD                          | Associate Professor  | Pulmonary, Critical Care<br>Sleep   |
| Uma Ayyala MD                              | Assistant Professor  | Pulmonary, Critical Care  |
| Shahram Moghtader MD                       | Assistant Professor  | Pulmonary, Critical Care<br>Sleep   |
| Ritwik Agrawal MD                          | Assistant Professor  | Pulmonary, Critical Care<br>Sleep   |
| <b>BCM Faculty Group Practice</b>          |  |   |
| Fidaa Shaib MD                             | Associate Professor  | Pulmonary, Critical Care<br>Sleep   |

|  |   |   |
|--|---|---|
|  | Director of the Pulmonary FGP & Director of BSLMC Sleep Center                                      |   |
| Prasad Manian MD   | Professor, Associate Section Chief for Clinical Affairs, Director of the Department of Medicine FGP | Pulmonary, Critical Care Sleep                      |
| Ali Jiwani MD  | Assistant Professor   | Pulmonary, Critical Care Interventional Pulmonology |
| Gloria Li MD<br>(*also Lung Transplant)                    | Assistant Professor   | Pulmonary, Critical Care Lung Transplant            |
| Dipa Modi MD<br>(*also BSLMC MICU)                         | Assistant Professor   | Pulmonary, Critical Care Pulmonary Rehabilitation   |
| Thomas Monaco MD<br>(*also BSLMC MICU)                     | Assistant Professor   | Pulmonary, Critical Care                            |
| Ivan O. Rosas MD   | Professor and Chief   | Pulmonary, Critical Care                            |
| Annise Wilson MD   | Assistant Professor of Neurology, 2yr appointment in Medicine                                       | Sleep Medicine                                      |
| Edward Hatrick NP (Nurse Practitioner)                     | Clinical Instructor   | Sleep Medicine                                      |
| Sara Nowakowski PhD  | Associate Professor   | Sleep Medicine                                      |
| Sunjay Devarajan MD (*also Cystic Fibrosis and BSLMC MICU) | Assistant Professor   | Pulmonary, Critical Care and Cystic Fibrosis        |
| Minkyung Kwon MD (*also BSLMC MICU)                        | Assistant Professor   | Pulmonary, Critical Care                            |
| <b>Cystic Fibrosis</b>                                     |   |   |
| Tara Barto MD  | Assistant Professor<br>Interim Director of Cystic Fibrosis Center                                   | Pulmonary, Critical Care Cystic Fibrosis            |
| <b>Lung Transplant</b>                                     |   |   |
| Puneet Garcha MD   | Associate Professor<br>Medical Director of Lung Transplant Program                                  | Pulmonary, Critical Care Transplant                 |
| Justin Segraves MD   | Assistant Professor   | Pulmonary, Critical Care Transplant                 |
| Christina Kao MD   | Associate Professor   | Pulmonary, Critical Care Transplant                 |
| <b>Baylor St. Luke's Medical Center MICU</b>               |   |   |

|                            |  |   |
|----------------------------|--|---|
| James Herlihy MD           | Professor<br>Chief of Critical Care service<br>line, BSLMC | Pulmonary, Critical Care  |
| Muhammad Asim Siddique MD  | Assistant Professor<br>ICU, Director of MICU               | Pulmonary, Critical Care<br>Sleep   |
| Jairo Barrantes – Perez MD | Assistant Professor  | Pulmonary, Critical Care<br>Sleep   |
| Christopher Howard MD      | Assistant Professor<br>ICU                                 | Pulmonary, Critical Care  |
| Christopher Morgan MD      | Assistant Professor<br>ICU                                 | Pulmonary, Critical Care  |
| Babith Mankidy MD          | Assistant Professor<br>ICU                                 | Pulmonary, Critical Care<br>Sleep, Transplant                                     |
| Andrea Braun MD            | Assistant Professor<br>ICU                                 | Internal Medicine,<br>Nephrology, Critical Care                                   |
| Ali Omranian MD            | Assistant Professor  | Internal Medicine<br>Critical Care  |
| Sergio Trevino Castillo MD | Assistant Professor  | Critical Care, Infectious<br>Diseases   |
| <b>Pavilion for Women</b>  |  |   |
| David Muigai MD            | Assistant Professor  | Internal Medicine, Critical<br>Care; Medical Director of<br>Critical Care Service |

### 3. Clinical Services

#### 3a Ben Taub General Hospital:

**Services Provided:**

Pulmonary  
Critical Care  
Sleep  
Critical Care ECHO/Ultrasound service  
Interventional Pulmonary services  
Procedures Service to the Internal Medicine service  
Tuberculosis care to the region  
Ambulatory care

#### 3b Michael E DeBakey VA Medical Center:

**Services provided:**

Pulmonary Consultations  
Critical Care  
Sleep  
Interventional Pulmonary services  
Pulmonary Hypertension  
Home Oxygen Program  
Step Down Unit

### **3c Baylor Faculty Group Practice and Baylor St. Luke's Medical Center Pulmonary & Sleep Services**

Inpatient and outpatient General Pulmonary  
Cystic fibrosis  
Interventional pulmonary services  
Lung transplantation  
Sleep medicine  
Interstitial lung disease  
Pulmonary hypertension (service in development)

### **3d St. Luke's Medical Center Critical Care Services**

Medical Intensive Care Unit  
Mobile intensive Care Unit  
Coronary Care Unit  
Cardiovascular Intensive Care Unit

### **3e Pavilion for Women**

Obstetrics/Critical Care Unit  
Pulmonary Consultation

## **4. Education**

**4a Pulmonary and Critical Care Fellowship (3-year combined program):** ACGME approved  
Program Director: Amit Parulekar, MD  
Associate Program Directors: Uma Ayyala MD, Stephen Bujarski MD, Christina Kao MD,  
Pralay Sarkar MD

### **Current fellows (2019-2020)**

| <b>Name</b> | <b>Medical School</b> | <b>Residency</b> |
|-------------|-----------------------|------------------|
|-------------|-----------------------|------------------|

|                       |  |   |
|-----------------------|--|---|
| Sara Assaf, MD        | American University of Beirut<br>Faculty of Medicine                           | Saint Louis University                  |
| Ali Cheema, MD        | University of Oklahoma<br>College of Medicine                                  | Baylor College of Medicine              |
| Jose Cuevas, MD       | Unverisdad Autonoma,<br>Mexico   | Texas Tech Health Science<br>Center     |
| Sami Bashour MD       | American University of Beirut<br>Faculty of Medicine                           | Baylor College of Medicine              |
| Adriel Fajilan, MD    | Loma Linda University School<br>of Medicine                                    | Harbor UCLA Medical Center              |
| Casey Graziani MD     | Tufts University School of<br>Medicine   | Emory University                        |
| Amy Heibel, MD        | Texas A&M Health Science<br>Center   | Ochsner Clinic Foundation               |
| Megan Hughes, MD      | University of Texas School of<br>Medicine at San Antonio                       | LSU Health Science Center<br>Shreveport |
| Gilboa Lombardi, MD   | Technischen Universität<br>München Fakultät für<br>Medizin                     | Vanderbilt University                   |
| Ninad Maniar, MD      | Seth G.S. Medical College  | University of Louisville                |
| Cameron McBride MD    | McGovern Medical School at<br>the University of Texas Health<br>Science Center | Baylor College of Medicine              |
| Katherine Richards MD | University of South Alabama<br>College of Medicine                             | Baylor College of Medicine              |
| Bruno Rodrigues MD    | Universidade de Brasilia<br>(UnB) Faculdade de Medicina                        | Cleveland Clinic                        |
| Todd Schlossman, MD   | American University of the<br>Caribbean  | West Virginia University                |
| Justin Segraves, MD   | New York Medical College   | Mayo Clinic                             |
| Omar Shweish MD       | Istanbul University  | St. Elizabeth's Medical Center          |

**4b Critical Care Fellowship (1-2 years):** ACGME approved  
Program Director: Kalpalatha Guntupalli MD  
Associate Program Directors: Dharani Narendra, MBBS, Andrea Braun, MD

**Current fellows (2019-2020)**

| Name                 | Medical School           | Residency                              |
|----------------------|--------------------------|--|
| Goutham Gudavalli MD | Kakatiya Medical College | LSU Health Science Center<br>Lafayette |
| Praveen Datar MD     | Osmania Medical College  | Interfaith Medical Center              |



|                         |  |   |
|-------------------------|--|---|
| Orlando Garner MD       | Universidad Nacional Autonoma de Honduras Facultad de Ciencias Medicas | Texas Tech University Health Sciences Center at the Permian Basin |
| Krishidhar Rao Nunna MD | Rangaraya Medical College  | Sinai Hospital of Baltimore                                       |
| Aniket Rali MD          | University of Tennessee Health Science Center                          | University of Kansas Medical Center                               |
| Ahmed Salem MD          | Aureus University School of Medicine                                   | Harbor Hospital Center  |

- 4c Sleep Fellowship:** ACGME approved  
Program Director: Phil Alapat MD  
Associate Program Director: Supriya Singh, MD

**Current fellows (2019-2020)**

| <b>Name</b>           | <b>Medical School</b>                                     | <b>Residency</b>   |
|-----------------------|---|--|
| Aristotle Asis MD     | University of the City of Manila College of Medicine      | University of Alabama at Birmingham Huntsville Campus            |
| Mary Hernandez MD     | University of the Philippines College of Medicine         | Beth Israel Medical Center                                       |
| Maria Macias MD       | Texas A&M Health Science Center College of Medicine       | Texas Tech University Health Science Center                      |
| Sumith Madhavarapu MD | Rocky Vista University of College of Osteopathic Medicine | University of Connecticut  |
| Zara Martirosyan MD   | Ross University School of Medicine                        | Englewood Hospital Medical Center/Mount Sinai School of Medicine |

**4d National Institutes of Health T-32 Training Grant on Lung Diseases:**

Program Director: Ivan O. Rosas, MD  
Positions: 4  
Status: Active (no section clinical fellows currently enrolled)

**4e Transplant Fellowship: (Texas Board Approved)**

Director: Amit Parulekar, MD  
Positions: 1-2  
Status: INACTIVE

**4f Interventional Pulmonary Fellowship (Texas Board Approved)**

Director (anticipated): D. Ray Lazarus, MD  
 Position: 1  
 Status: INACTIVE, PENDING INITIATION

**Weekly Fellowship Noon Conferences**

| <b>Wednesday</b>   | <b>Friday</b>   |
|--|---|
| PCCSM BCM/St. Luke's Pulmonary Grand Rounds; Critical Care case conference | PCC/CCM Fellows Conference<br>Sleep Medicine<br>Didactic lecture series |

**Monthly Fellowship Workshops**

| <b>Friday</b>                               |
|---|
| Pulmonary, Critical Care combined workshops |

**Site-specific conferences (not mentioned above)**

| <b>BTGH</b>                                       | <b>MEDVAMC</b>  | <b>BSLMC / FGP</b>                                       | <b>PFW</b>   |
|---|---|--|--|
| Tumor Board<br>CC Board review<br>CC Journal club | Tumor Board;<br>Weekly Case Conference<br>Patient-Centered Clinical Research;<br>CTRID seminar series | Tumor Board (BSLMC)<br>Sleep Medicine Board Review (FGP) | ICU topic review;<br>Multidisciplinary case conference<br>Annual SCCM FCCS-OB Conference |

**5. Research**

**5a. Grants and Contracts Awarded: 07/01/2018 - 06/30/2019**

Lavannya Pandit, MD, MS  
 United Therapeutics

**MEDICINE: PULMONARY**

|   | NIH            | Other Federal | Non-Federal  | Cash         | Total          |
|---|----------------|---------------|--------------|--------------|----------------|
| MEDICINE:<br>PULMONARY<br><b>TOTALS</b> | \$1,697,697.00 | \$977,389.00  | \$300,000.00 | \$268,121.26 | \$3,243,207.76 |

| <u>Principal Investigator</u>   | <u>Sponsor</u>   | <u>Grant Number</u>         | <u>Project Title</u>  | <u>Budget Period</u>            | DIRECT    | INDIRECT | Total     |
|---------------------------------|--|-----------------------------|---|---------------------------------|-----------|----------|-----------|
| BORIEK,<br>ALADIN M.            | NATIONAL HEART,<br>LUNG, AND<br>BLOOD INSTITUTE<br>(NIH/NHLBI)               | R25-<br>HL108853<br>-08     | YEAR 8 - RPPR (MPI)<br>: SHORT TERM<br>TRAINING TO<br>INCREASE<br>DIVERSITY                                       | 4/1/2019-<br>3/31/202<br>0      | \$70,820  | \$5,666  | \$76,486  |
| BORIEK,<br>ALADIN M.            | NATIONAL<br>SCIENCE<br>FOUNDATION<br>(NSF)                                   | 1714478<br>Suppleme<br>nt   | EXPLORATORY ROLE<br>OF THE<br>CYTOSKELETON IN<br>ANISOTROPIC<br>REGULATION OF<br>MICRORNAS IN<br>SKELETAL MUSCLES | 11/6/201<br>8-<br>9/30/201<br>9 | \$16,000  | \$0.00   | \$16,000  |
| EISSA, TONY                     | ALPHA ONE<br>FOUNDATION  | 501272<br>Yr. 2             | YEAR 2:<br>LYSOSOMAL ORIGIN<br>FOR EMPHYSEMA  | 7/1/2018-<br>6/30/201<br>9      | \$100,000 | \$0.00   | \$100,000 |
| EISSA, TONY                     | AMERICAN HEART<br>ASSOCIATION INC  | 18TPA341<br>70123           | REGULATION OF<br>INFLMMASOME<br>ACTIVITY BY P38<br>MAPK   | 7/1/2018-<br>6/30/201<br>9      | \$90,909  | \$9,091  | \$100,000 |
| EISSA, TONY                     | NATIONAL CENTER<br>FOR ADVANCING<br>TRANSLATIONAL<br>SCIENCES<br>(NIH/NCATS) | UH3-<br>TRO00961<br>-03 NCE | 2ND & 3RD NCE:<br>THERAPEUTIC<br>STRATEGY FOR LAM<br>(LYMPHANGIOLEIO<br>MYMOATOSIS)                               | 9/1/2018-<br>8/31/201<br>9      | \$0.00    | \$0.00   | \$0.00    |
| EISSA, TONY                     | NATIONAL HEART,<br>LUNG, AND<br>BLOOD INSTITUTE<br>(NIH/NHLBI)               | T32-<br>HL007747<br>-23     | YR 23: RESEARCH<br>TRAINING IN LUNG<br>DISEASE  | 7/1/2018-<br>6/30/201<br>9      | \$426,086 | \$27,687 | \$453,773 |
| HANANIA,<br>NICOLA<br>ALEXANDER | AMERICAN LUNG<br>ASSOCIATION   | Year 3                      | AIRWAYS CLINICAL<br>RESEARCH CENTERS<br>(ACRC)  | 7/1/2018-<br>6/30/201<br>9      | \$100,000 | \$0.00   | \$100,000 |

|                     |  |                               |   |                      |           |           |           |
|---------------------|--|-------------------------------|---|----------------------|-----------|-----------|-----------|
| KHERADMAND ,FARRAH  | CENTERS FOR DISEASE CONTROL (CDC)  | T41-OH00842 1-12              | THE ROLE OF NANO-PARTICULATED CARBON BLACK IN LUNG CANCER DEVELOPMENT                                   | 7/1/2018-6/30/2019   | \$10,000  | \$0.00    | \$10,000  |
| KHERADMAND , FARRAH | DEPARTMENT OF DEFENSE CONGRESSIONALLY DIRECTED MEDICAL RESEARCH PROGRAMS | W81XWH-16-1-0361 Year 3       | YR 3: PR140593P1: ENHANCEMENT OF IMMUNE MEMORY RESPONSES TO RESPIRATORY INFECTION                       | 8/1/2018-7/31/2019   | \$229,392 | \$134,194 | \$363,586 |
| KHERADMAND , FARRAH | NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES (NIH)                | R01-ES029442 - 01             | ASSIST 203344: TOXIC EFFECTS OF ECIGS FOLLOWING TRANSITION FROM CONVENTIONAL CIGARETTES                 | 8/1/2018-7/31/2019   | \$335,553 | \$138,168 | \$473,721 |
| KHERADMAND , FARRAH | DEPARTMENT OF VETERANS AFFAIRS CSR&D MERIT REVIEW AWARD                  | 5I01CX00 0104-10              | INNATE AND ACQUIRED IMMUNE RESPONSES IN HUMAN COPD  | 7/1/2018-6/30/2022   | \$165,000 | \$0.00    | \$165,000 |
| PARULEKAR, AMIT D.  | AMERICAN LUNG ASSOCIATION  | CG-415676 2 <sup>nd</sup> NCE | 2 <sup>ND</sup> NCE: THE IMPACT OF FUNGAL SENSITIZATION AND AIRWAY FUNGAL MICROBIOME ON ASTHMA SEVERITY | 1/1/2019-6/30/2019   | \$0.00    | \$0.00    | \$0.00    |
| RUMBAUT, ROLANDO    | NATIONAL HEART, LUNG, AND BLOOD INSTITUTE (NIH/NHLBI)                    | T32-HL139425 -01A1            | COLLABORATIVE RESEARCH TRAINING IN THROMBOSIS AND INFLAMMATION  | 8/1/2018-7/31/2019   | \$296,828 | \$20,466  | \$317,294 |
| RUMBAUT, ROLANDO    | NATIONAL EYE INSTITUTE (NIH/NEI)   | R01-EY018239 -09              | YR 9 (MPI): OCULAR SURFACE INJURY: INFLAMMATORY CASCADE AND HEALING OF CORNEAL WOUNDS                   | 12/1/2018-11/30/2019 | \$300,130 | \$60,293  | \$360,423 |

|                     |  |                     |  |                            |           |        |           |
|---------------------|--|---------------------|--|----------------------------|-----------|--------|-----------|
| RUMBAUT,<br>ROLANDO | DEPARTMENT OF<br>VETERANS<br>AFFAIRS BLR&D<br>MERIT REVIEW<br>AWARD  | 5I01BX00<br>2551-04 | PLATELETS AND<br>MICROVASCULAR<br>THROMBOSIS IN<br>INFLAMMATION      | 4/1/2016-<br>3/31/202<br>0 | \$165,000 | \$0.00 | \$165,000 |
| RUMBAUT,<br>ROLANDO | DEPARTMENT OF<br>VETERANS<br>AFFAIRS SHARED<br>EQUIPEMENT<br>PROGRAM | 1IS1BX004<br>798-01 | SHEEP REQUEST<br>FOR HIGH-<br>RESOLUTION FLOW<br>CYTOMETRY<br>SYSTEM | 1/1/2019-<br>9/30/201<br>9 | \$273,803 | \$0.00 | \$273,803 |

#### Cash Awards

| <u>Principal Investigator</u>   | <u>Sponsor</u>               | <u>Project Title</u>   | <u>Fiscal Year</u> | <u>Direct</u> | <u>Indirect</u> | <u>Total</u> |
|---------------------------------|------------------------------|--|--------------------|---------------|-----------------|--------------|
| ALAPAT,<br>PHILIP MANI          | CHEETAH MEDICAL,<br>INC      | EVALUATION OF<br>FLUID VOLUME IN<br>PATIENTS WITH<br>SEPSIS AND<br>REFRACTORY<br>HYPOTENSION | 2019               | \$7,140.50    | \$962.65        | \$8,103.15   |
| GUNTUPALLI,<br>KALPALATHA<br>K. | BOEHRINGER<br>INGELHEIM LTD  | IDIOPATHIC<br>PULMONARY<br>FIBROSIS<br>PROSPECTIVE<br>OUTCOMES<br>REGISTRY (IPF-PRO)         | 2019               | \$5,670       | \$0.00          | \$5,670      |
| HANANIA,<br>NICOLA<br>ALEXANDER | AMERICAN LUNG<br>ASSOCIATION | "LOSARTAN<br>EFFECTS ON<br>EMPHYSEMA<br>PROGRESSION<br>TRIAL" (LEEP) TRIAL                   | 2019               | \$3,356       | \$0.00          | \$3,356      |
| HANANIA,<br>NICOLA<br>ALEXANDER | AMERICAN LUNG<br>ASSOCIATION | CHRONIC<br>REFRACTORY<br>COUGH COHORT<br>STUDY (COCO)  | 2019               | \$3,000       | \$0.00          | \$3,000      |

|                                 |   |  |      |             |            |             |
|---------------------------------|---|--|------|-------------|------------|-------------|
| HANANIA,<br>NICOLA<br>ALEXANDER | ASTRAZENECA                                       | THE CHRONICLE STUDY: A LONGITUDINAL PROSPECTIVE OBSERVATIONAL STUDY OF THE CHARACTERISTICS, TREATMENT PATTERNS AND HEALTH OUTCOMES OF INDIVIDUALS WITH SEVERE ASTHMA IN THE UNITED STATES  | 2019 | (\$404.37)  | (\$104.84) | (\$509.21)  |
| HANANIA,<br>NICOLA<br>ALEXANDER | ASTRAZENECA                                       | PONENTE: A MULTICENTER, OPEN-LABEL, PHASE 3B EFFICACY AND SAFETY STUDY OF BENRALIZUMAB 30 MG ADMINISTERED SUBCUTANEOUSLY TO REDUCE ORAL CORTICOSTEROID USE IN ADULT PATIENTS WITH SEVERE EOSINOPHILIC ASTHMA ON HIGH-DOSE INHALED CORTICOSTEROID PLUS LONG-ACTING BETA-2 AGONIST AND CHRONIC ORAL CORTICOSTEROID THERAPY | 2019 | \$5,000     | \$1,296.29 | \$6,296.29  |
| HANANIA,<br>NICOLA<br>ALEXANDER | BOEHRINGER<br>INGELHEIM<br>PHARMACEUTICAL,<br>INC | OBSERVATIONAL STUDY IN HEALTHY SUBJECTS AND PATIENTS WITH COPD TO ASSESS THE RELATIONSHIP BETWEEN CLINICAL, IMAGING AND BIOMARKER MEASUREMENTS, AND PROGRESSION OF EMPHYSEMA OVER TWO YEARS.   | 2019 | \$30,716.16 | \$7,963.45 | \$38,679.61 |

|                                 |                                  |   |      |               |             |               |
|---------------------------------|----------------------------------|---|------|---------------|-------------|---------------|
| HANANIA,<br>NICOLA<br>ALEXANDER | CHIESI<br>FARMACEUTICI<br>S.P.A. | ASSESSMENT OF<br>SMALL AIRWAYS<br>INVOLVEMENT IN<br>ASTHMA<br>(ATLANTIS) CCD-<br>01535AC1-01  | 2019 | (\$12,853.41) | \$0.00      | (\$12,560.97) |
| HANANIA,<br>NICOLA<br>ALEXANDER | GENENTECH, INC.                  | A PHASE II,<br>RANDOMIZED,<br>DOUBLE-BLIND,<br>PLACEBO-<br>CONTROLLED<br>BRONCHOSCOPY<br>STUDY TO<br>EVALUATE THE<br>EFFECTS OF<br>LEBRIKIZUMAB ON<br>AIRWAY<br>EOSINOPHILIC<br>INFLAMMATION IN<br>PATIENTS WITH<br>UNCONTROLLED<br>ASTHMA ON<br>INHALED<br>CORTICOSTEROIDS<br>AND A SECOND<br>CONTROLLER<br>MEDICATION<br>PROTOCOL<br>NUMBER:GB29260 | 2019 | (\$34.25)     | \$0.00      | (\$34.25)     |
| HANANIA,<br>NICOLA<br>ALEXANDER | GENENTECH, INC.                  | A PROSPECTIVE,<br>SINGLE ARM,<br>LONGITUDINAL<br>COHORT STUDY TO<br>ASSESS<br>BIOMARKERS IN<br>REAL WORLD<br>PATIENTS WITH<br>SEVERE ASTHMA   | 2019 | (\$12,560.97) | \$0.00      | (\$12,560.97) |
| HANANIA,<br>NICOLA<br>ALEXANDER | GLAXO/SMITHKLINE                 | A RANDOMIZED,<br>DOUBLE-BLIND,<br>SPONSOR OPEN,<br>PLACEBO-<br>CONTROLLED, 52<br>WEEK STUDY<br>EVALUATION THE<br>EFFECT OF<br>DANIRIXIN   | 2019 | \$51,681.50   | \$13,398.91 | \$65,080.41   |

|                           |                  |  |      |             |             |             |
|---------------------------|------------------|--|------|-------------|-------------|-------------|
|                           |                  | (GSK1325756) ON LUNG FUNCTION AND HEALTH RELATED QUALITY OF LIFE IN PARTICIPANTS WITH MILD TO MODERATE CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD)  |      |             |             |             |
| HANANIA, NICOLA ALEXANDER | GLAXO/SMITHKLINE | A PHASE III, RANDOMIZED, DOUBLE-BLIND, ACTIVE CONTROLLED, PARALLEL GROUP STUDY, COMPARING THE EFFICACY, SAFETY AND TOLERABILITY OF THE FIXED DOSE COMBINATION FF/UMEC/VI WITH THE FIXED DOSE DUAL COMBINATION OF FF/VI, ADMINISTERED ONCE-DAILY VIA A DRY POWDER INHALER IN SUBJECTS WITH INADEQUATELY CONTROLLED ASTHMA | 2019 | \$63,902.59 | \$16,567.34 | \$80,469.93 |
| HANANIA, NICOLA ALEXANDER | GLAXO/SMITHKLINE | A PHASE IIB, RANDOMIZED (STRATIFIED), DOUBLE-BLIND (SPONSOR OPEN), PARRALLEL GROUP, PLACEBO-CONTROLLED, DOSE-FINDING STUDIY OF NEMIRALISIB (GSK 2269557) ADDED TO STANDARD OF CARE (SOC)ALONE  | 2019 | \$8,353     | \$1,098.73  | \$9,451.73  |



|                           |                                     |   |      |             |             |             |
|---------------------------|-------------------------------------|---|------|-------------|-------------|-------------|
|                           |                                     | IN PARTICIPANTS DIAGNOSED WITH AN ACUTE MODERATE OR SEVERE EXACERBATION OF CHRONIC OBSTRUCTIVE PULMONARY DISEASE (COPD)   |      |             |             |             |
| HANANIA, NICOLA ALEXANDER | GOSSAMER BIO                        | A PHASE 2B, RANDOMIZED, DOUBLE-BLIND, PLACEBO-CONTROLLED, DOSE-RANGING, MULTI-CENTER STUDY TO EVALUATE THE EFFICACY AND SAFETY OF GB001 AS MAINTENANCE THERAPY IN ADULT SUBJECTS WITH MODERATE TO SEVERE ASTHMA | 2019 | \$20,324.25 | \$5,269.25  | \$25,593.50 |
| HANANIA, NICOLA ALEXANDER | NATIONAL INSTITUTES OF HEALTH (NIH) | AMENDMENT-THE GENETICS EPIDEMIOLOGY OF COPD   | 2019 | \$29,150.25 | \$10,523.89 | \$39,674.14 |
| HANANIA, NICOLA ALEXANDER | NIH: NATIONAL INSTITUTES OF HEALTH  | YR 3: NETWORK MANAGEMENT CORE (NEMO) FOR THE PULMONARY TRIALS COOPERATIVE (PTC) (INSIGHT)   | 2019 | \$1,840     | \$0.00      | \$1,840     |
| HANANIA, NICOLA ALEXANDER | PEARL THERAPEUTICS, INC.            | A RANDOMIZED, DOUBLE-BLIND, PARALLEL GROUP, MULTI-CENTER STUDY TO ASSESS THE EFFICACY AND SAFETY OF PT009 COMPARED TO PT005 ON COPD EXACERBATIONS OVER A 52-WEEK  | 2019 | \$750       | \$101.12    | \$851.12    |

|                  |  |   |      |            |        |            |
|------------------|--|---|------|------------|--------|------------|
|                  |  | TREATMENT PERIOD IN SUBJECTS WITH MODERATE TO VERY SEVERE COPD  |      |            |        |            |
| RUMBAUT, ROLANDO | HOUSTON VA RESEARCH AND EDUCATION FOUNDATION | MOU - THE HOUSTON VA RESEARCH AND EDUCATION FOUNDATION, INC. (HVAREF) AND BAYLOR COLLEGE OF MEDICINE (BCM) - CTRID ANIMAL COSTS | 2019 | \$5,720.78 | \$0.00 | \$5,720.78 |

## 6. Awards

1. **Dr. Prasad Manian** was selected as one of the **2018 Texas Super Doctors** for the pulmonary category.
2. **Dr. Babith Mankidy** won the **Alfred Soffer Research Award** at the annual American College of Chest Physicians' meeting held in October 2018. His work was titled "Reduction of in-hospital cardiac arrest with sequential deployment of rapid response team and medical emergency team to the emergency department and acute care wards."
3. **The Ben Taub Hospital Medical Intensive Care Unit** was awarded the **Silver Beacon Award for Excellence** from the American Association of Critical Care Nurses. The award honors individual units that distinguish themselves by improving every facet of patient care, including employing evidence-based practice to improve patient and family care outcomes.
4. **Dr. Goutham Dronavalli** was awarded the **Norton Rose Fulbright Faculty Excellence** award and the **Star Faculty Award for Excellence in Patient Care**.
5. **Dr. Stephen Bujarski** was awarded the **Early Career Faculty Award for Excellence in Patient Care**.
6. **Dr. Amit Parulekar** was awarded the **Star Faculty Award for Excellence in Patient Care**.
7. **Dr. Uma Ayyala** was awarded the **Graduating Class Outstanding Faculty Award**.

## 7. Publications

1. Loor G, **Parulekar AD**, Smith M. Evaluation of the INSPIRE trial and its implications for lung transplantation with normothermic portable ex vivo lung perfusion. *J Thorac Cardiovasc Surg*. 2019 May 16. [Epub ahead of print]. PMID: 31235356
2. Diamant Z, Aalders W, **Parulekar AD**, Hanania NA and Bjermer L. Anti-mediator therapy: Another targeted treatment option for asthma. *Curr Opin Pulm Med*. 2019 Jan;25(1):121-127. PMID: 30422894
3. Osaee EA, Steven P, Redfern R, Hanlon S, Smith CW, **Rumbaut RE**, Burns AR. Dyslipidemia and Meibomian Gland Dysfunction: Utility of Lipidomics and Experimental Prospects with a Diet-Induced Obesity Mouse Model *Int J Mol Sci* 2019 [in press]
4. Cardenas EI, Gonzalez R, Breaux K, Da Q, Gutierrez BA, Ramos MA, Cardenas RA, Burns AR, **Rumbaut RE**, Adachi R. Munc18-2, but not Munc18-1 or Munc18-3, regulates platelet exocytosis, hemostasis, and thrombosis. *J Biol Chem*. 2019 Mar 29;294(13):4784-4792.
5. Da Q, Derry PJ, Lam FW, **Rumbaut RE**. Fluorescent labeling of endogenous platelets for intravital microscopy: Effects on platelet function. *Microcirculation*. 2018 Aug;25(6):e12457
6. Cardenas EI, Breaux K, Da Q, Flores JR, Ramos MA, Tuvim MJ, Burns AR, **Rumbaut RE**, Adachi R. Platelet Munc13-4 regulates hemostasis, thrombosis and airway inflammation. *Haematologica*. 2018 Jul;103(7):1235-1244.
7. Kitagawa MG, Reynolds JO, Durgan D, Rodney G, Karmouty-Quintana H, Bryan R, **Pandit LM**. *Physiol Rep*. 2019 Jan;7(1):e13950. doi: 10.14814/phy2.13950.
8. Darwiche T, Collum SD, Bi W, Reynolds JO, Wilson C, Wareing N, Hernandez AM, Mertens TCJ, Zhou Z, **Pandit LM**, Karmouty-Quintana H. *Exp Physiol*. 2019 Apr;104(4):568-579. doi: 10.1113/EP087321. Epub 2019 Feb 10.
9. Mayor JM, **Lazarus DR**, Casal RF, Omer S, Preventza O, Simpson K, Jimenez E, Cornwell LD. *Ann Thorac Surg*. 2018 Dec;106(6):1647-1653. doi: 10.1016/j.athoracsur.2018.07.029. Epub 2018 Sep 12.
10. Tam A, Chen S, Schauer E, Grafe I, **Bandi V**, Shapiro JR, Steiner RD, Smith PA, Bober MB, Hart T, Cuthbertson D, Krischer J, Mullins M, Byers PH, Sandhaus RA, Durigova M, Glorieux FH, Rauch F, Reid Sutton V, Lee B; Members of the Brittle Bone Disorders Consortium, Rush ET, Nagamani SCS. *Clin Genet*. 2018 Dec;94(6):502-511. doi: 10.1111/cge.13440. Epub 2018 Sep 24.
11. Cho M, Lee JE, Lim H, Shin HW, Khalmuratova R, Choi G, Kim HS, Choi WS, Park YJ, Shim I, Kim BS, Kang CY, Kim JO, Tanaka S, Kubo M, Tung HY, Landers CT, Corry DB, **Kheradmand F**, Chung Y. Fibrinogen cleavage products and Toll-like receptor 4 promote the generation of programmed cell death 1 ligand 2-positive dendritic cells in allergic asthma. *J Allergy Clin Immunol*. 2018;142(2):530-41 e6. doi: 10.1016/j.jaci.2017.09.019. PubMed PMID: 29038008.
12. Gu BH, Madison MC, Corry D, **Kheradmand F**. Matrix remodeling in chronic lung diseases. *Matrix Biol*. 2018. doi: 10.1016/j.matbio.2018.03.012. PubMed PMID: 29559389.
13. Hong MJ, Gu BH, Madison MC, Landers C, Tung HY, Kim M, Yuan X, You R, Machado AA, Gilbert BE, Soroosh P, Elloso M, Song L, Chen M, Corry DB, Diehl G, **Kheradmand F**. Protective role of gamma delta T cells in cigarette smoke and influenza infection. *Mucosal Immunol*. 2018;11(3):894-908. doi: 10.1038/mi.2017.93. PubMed PMID: 29091081; PMCID: PMC5930147.

- 14.** Lee HS, Jang HJ, Choi JM, Zhang J, de Rosen VL, Wheeler TM, Lee JS, Tu T, Jindra PT, Kerman RH, Jung SY, **Kheradmand F**, Sugarbaker DJ, Burt BM. Comprehensive immunoproteogenomic analyses of malignant pleural mesothelioma. *JCI Insight*. 2018;3(7). doi: 10.1172/jci.insight.98575. PubMed PMID: 29618661; PMCID: PMC5928857.
- 15.** Li E, Tsai CL, Maskatia ZK, Kakkar E, Porter P, Rossen RD, Perusich S, Knight JM, **Kheradmand F**, Corry DB. Benefits of antifungal therapy in asthma patients with airway mycosis: A retrospective cohort analysis. *Immun Inflamm Dis*. 2018;6(2):264-75. doi: 10.1002/iid3.215. PubMed PMID: 29575717; PMCID: PMC5946149.
- 16.** Morgan Knight J, Li E, Tung HY, Landers C, Wheeler J, **Kheradmand F**, Corry DB. A Fungal Protease Model to Interrogate Allergic Lung Immunity. *Methods Mol Biol*. 2018;1799:1-9. doi: 10.1007/978-1-4939-7896-0\_1. PubMed PMID: 29956139.
- 17.** Tung HY, Li E, Landers C, Nguyen A, **Kheradmand F**, Knight JM, Corry DB. Advances and Evolving Concepts in Allergic Asthma. *Semin Respir Crit Care Med*. 2018;39(1):64-81. doi: 10.1055/s-0037-1607981. PubMed PMID: 29427987.
- 18.** You R, DeMayo FJ, Liu J, Cho SN, Burt BM, Creighton CJ, Casal RF, Lazarus DR, Lu W, Tung HY, Yuan X, Hill-McAlester A, Kim M, Perusich S, Cornwell L, Rosen D, Song LZ, Paust S, Diehl G, Corry D, **Kheradmand F**. IL17A Regulates Tumor Latency and Metastasis in Lung Adeno and Squamous SQ.2b and AD.1 Cancer. *Cancer Immunol Res*. 2018;6(6):645-57. doi: 10.1158/2326-6066.CIR-17-0554. PubMed PMID: 29653981.
- 19.** Zhou Y, Horowitz JC, Naba A, Ambalavanan N, Atabai K, Balestrini J, Bitterman PB, Corley RA, Ding BS, Engler AJ, Hansen KC, Hagood JS, **Kheradmand F**, Lin QS, Neptune E, Niklason L, Ortiz LA, Parks WC, Tschumperlin DJ, White ES, Chapman HA, Thannickal VJ. Extracellular matrix in lung development, homeostasis and disease. *Matrix Biol*. 2018;73:77-104. doi: 10.1016/j.matbio.2018.03.005. PubMed PMID: 29524630; PMCID: PMC6129220.
- 20.** Gu BH, Choi JC, Shen YH, Song LZ, Scheurer ME, Luong A, Rodriguez A, Woodruff P, Koth L, Corry DB, **Kheradmand F**, LeMaire SA. Elastin-Specific Autoimmunity in Smokers With Thoracic Aortic Aneurysm and Dissection is Independent of Chronic Obstructive Pulmonary Disease. *J Am Heart Assoc*. 2019;8(8):e011671. Epub 2019/04/09. doi: 10.1161/JAHA.118.011671. PubMed PMID: 30957625; PMCID: PMC6507218.
- 21.** Gu BH, Sprouse ML, Madison MC, Hong MJ, Yuan X, Tung HY, Landers CT, Song LZ, Corry DB, Bettini M, **Kheradmand F**. A Novel Animal Model of Emphysema Induced by Anti-Elastin Autoimmunity. *J Immunol*. 2019. Epub 2019/06/12. doi: 10.4049/jimmunol.1900113. PubMed PMID: 31182478.
- 22.** Wu Y, Du S, Johnson JL, Tung HY, Landers CT, Liu Y, Seman BG, Wheeler RT, Costa-Mattioli M, **Kheradmand F**, Zheng H, Corry DB. Microglia and amyloid precursor protein coordinate control of transient *Candida cerebritis* with memory deficits. *Nat Commun*. 2019;10(1):58. Epub 2019/01/06. doi: 10.1038/s41467-018-07991-4. PubMed PMID: 30610193; PMCID: PMC6320369.
- 23.** Yuan X, Chang CY, You R, Shan M, Gu BH, Madison M, Diehl G, Perusich S, Song LZ, Cornwell L, Rossen RD, Wetsel R, Kimal R, Coarfa C, Eltzschig H, Corry DB, **Kheradmand F**. *JCI Insight*. 2019 May 21;5. pii: 124317. doi: 10.1172/jci.insight.124317.
- 24.** Madison MC, **Kheradmand F**. *Am J Respir Cell Mol Biol*. 2019 May 2. doi: 10.1165/rcmb.2019-0145ED. [Epub ahead of print]

- 25.** Landers CT, Tung HY, Knight JM, Madison MC, Wu Y, Zeng Z, Porter PC, Rodriguez A, Flick MJ, **Kheradmand F**, Corry DB. *J Biol Chem*. 2019 Apr 16. pii: jbc.RA118.006724. doi: 10.1074/jbc.RA118.006724. [Epub ahead of print]
- 26.** Gu BH, Choi JC, Shen YH, Song LZ, Scheurer ME, Luong A, Rodriguez A, Woodruff P, Koth L, Corry DB, **Kheradmand F**, LeMaire SA. *J Am Heart Assoc*. 2019 Apr 16;8(8):e011671. doi: 10.1161/JAHA.118.011671.
- 27.** Kim M, Gu B, Madison MC, Song HW, Norwood K, Hill AA, Wu WJ, Corry D, **Kheradmand F**, Diehl GE. *Front Immunol*. 2019 Jan 29;10:75. doi: 10.3389/fimmu.2019.00075. eCollection 2019.
- 28.** Wu Y, Du S, Johnson JL, Tung HY, Landers CT, Liu Y, Seman BG, Wheeler RT, Costa-Mattioli M, **Kheradmand F**, Zheng H, Corry DB. *Nat Commun*. 2019 Jan 4;10(1):58. doi: 10.1038/s41467-018-07991-4.
- 29.** Ha TN, Madison MC, **Kheradmand F**, Altman KW. *Am J Otolaryngol*. 2019 Jan - Feb;40(1):89-92. doi: 10.1016/j.amjoto.2018.10.001. Epub 2018 Oct 3.
- 30.** Li E, Landers CT, Tung HY, Knight JM, Marshall Z, Luong AU, Rodriguez A, **Kheradmand F**, Corry DB. *Ann Am Thorac Soc*. 2018 Nov;15(Supplement\_3):S198-S204. doi: 10.1513/AnnalsATS.201803-154AW.
- 31.** Liu Y, O'Brien JL, Ajami NJ, Scheurer ME, Amirian ES, Armstrong G, Tsavachidis S, Thrift AP, Jiao L, Wong MC, Smith DP, Spitz MR, Bondy ML, Petrosino JF, **Kheradmand F**. *Am J Cancer Res*. 2018 Sep 1;8(9):1775-1787. eCollection 2018.
- 32.** Liu Y, Lusk CM, Cho MH, Silverman EK, Qiao D, Zhang R, Scheurer ME, **Kheradmand F**, Wheeler DA, Tsavachidis S, Armstrong G, Zhu D, Wistuba II, Chow CB, Behrens C, Pikielny CW, Neslund-Dudas C, Pinney SM, Anderson M, Kupert E, Bailey-Wilson J, Gaba C, Mandal D, You M, de Andrade M, Yang P, Field JK, Liloglou T, Davies M, Lissowska J, Swiatkowska B, Zaridze D, Mukeriya A, Janout V, Holcatova I, Mates D, Milosavljevic S, Scelo G, Brennan P, McKay J, Liu G, Hung RJ, Christiani DC, Schwartz AG, Amos CI, Spitz MR. *J Thorac Oncol*. 2018 Oct;13(10):1483-1495. doi: 10.1016/j.jtho.2018.06.016. Epub 2018 Jul 4.
- 33.** Yohannes AM, Dryden S, **Hanania NA**. Validity and Responsiveness of the Depression Anxiety Stress Scales-21 (DASS-21) in COPD. *Chest*. 2019 Jun;155(6):1166-1177.
- 34.** Maselli DJ, Bhatt SP, Anzueto A, Bowler RP, DeMeo DL, Diaz AA, Dransfield MT, Fawzy A, Foreman MG, **Hanania NA**, Hersh CP, Kim V, Kinney GL, Putcha N, Wan ES, Wells JM, Westney GE, Young KA, Silverman EK, Han MK, Make BJ. Clinical Epidemiology of COPD: Insights From 10 Years of the COPD Gene Study. *Chest*. 2019 May 30. pii: S0012-3692(19)31128-6.
- 35.** **Hanania NA**, O'Donnell DE. Activity-related dyspnea in chronic obstructive pulmonary disease: physical and psychological consequences, unmet needs, and future directions. *Int J Chron Obstruct Pulmon Dis*. 2019 May 24;14:1127-1138.
- 36.** **Narendra DK**, **Hanania NA**. Targeting IL-5 in COPD. *Int J Chron Obstruct Pulmon Dis*. 2019 May 16;14:1045-1051.
- 37.** Brooks EA, Massanari M, **Hanania NA**, Weiner DJ. Cost-effectiveness of fractional exhaled nitric oxide (FeNO) measurement in predicting response to omalizumab in asthma. *Clinicoecon Outcomes Res*. 2019 Apr 17;11:301-307.
- 38.** **Hanania NA**, Chipps BE, Griffin NM, Yoo B, Iqbal A, Casale TB. Omalizumab effectiveness in asthma-COPD overlap: Post hoc analysis of PROSPERO. *J Allergy Clin Immunol*. 2019 Apr;143(4):1629-1633.

- 39.** Iyer AS, Holm KE, Bhatt SP, Kim V, Kinney GL, Wamboldt FS, Jacobs MR, Regan EA, Armstrong HF, Lowe KE, Martinez CH, Dransfield MT, Foreman MG, Shinozaki G, **Hanania NA**, Wise RA, Make BJ, Hoth KF; COPDGene Investigators. Symptoms of anxiety and depression and use of anxiolytic-hypnotics and antidepressants in current and former smokers with and without COPD - A cross sectional analysis of the COPDGene cohort. *J Psychosom Res.* 2019 Mar;118:18-26.
- 40.** Maselli DJ, Hardin M, Christenson SA, **Hanania NA**, Hersh CP, Adams SG, Anzueto A, Peters JI, Han MK, Martinez FJ. Clinical Approach to the Therapy of Asthma-COPD Overlap. *Chest.* 2019 Jan;155(1):168-177.
- 41.** Boulet LP, **Hanania NA**. The many faces of asthma-chronic obstructive pulmonary disease overlap. *Curr Opin Pulm Med.* 2019 Jan;25(1):1-10.
- 42.** Diamant Z, Aalders W, **Parulekar A**, Bjermer L, **Hanania NA**. Targeting lipid mediators in asthma: time for reappraisal. *Curr Opin Pulm Med.* 2019 Jan;25(1):121-127.
- 43.** Pavord ID, **Hanania NA**. Controversies in Allergy: Should Severe Asthma with Eosinophilic Phenotype Always Be Treated with Anti-IL-5 Therapies. *J Allergy Clin Immunol Pract.* 2019 May - Jun;7(5):1430-1436.
- 44.** **Hanania NA**, Sethi S, Koltun A, Ward JK, Spanton J, Ng D. Long-term safety and efficacy of formoterol fumarate inhalation solution in patients with moderate-to-severe COPD. *Int J Chron Obstruct Pulmon Dis.* 2018 Dec 27;14:117-127.
- 45.** Shaddox E, Peterson CB, Stingo FC, **Hanania NA**, Cruickshank-Quinn C, Kechris K, Bowler R, Vannucci M. Bayesian inference of networks across multiple sample groups and data types. *Biostatistics.* 2018 Dec 26. doi: 10.1093/biostatistics/kxy078. [Epub ahead of print]
- 46.** Calzetta L, **Hanania NA**, Dini FL, Goldstein MF, Fairweather WR, Howard WW, Cazzola M. Impact of doxofylline compared to theophylline in asthma: A pooled analysis of functional and clinical outcomes from two multicentre, double-blind, randomized studies (DOROTHEO 1 and DOROTHEO 2). *Pulm Pharmacol Ther.* 2018 Dec;53:20-26.
- 47.** Han MK, **Hanania NA**, Martinez FJ. Confronting the Challenge of COPD: What Is New in the Approaches to Diagnosis, Treatment, and Patient Outcomes. *Chest.* 2018 Oct;154(4):984-985.
- 48.** Skolnik N, Kaplan AG, Lake T, Hayden ML, **Hanania NA**. COPD Management in the Primary Care Setting. *J Fam Pract.* 2018 Oct;67(10 Suppl):S27-S32.
- 49.** Maselli DJ, **Hanania NA**. Asthma COPD overlap: Impact of associated comorbidities. *Pulm Pharmacol Ther.* 2018 Oct;52:27-31.
- 50.** D'Urzo AD, Cazzola M, **Hanania NA**, Buhl R, Maleki-Yazdi MR. New developments in optimizing bronchodilator treatment of COPD: a focus on glycopyrrolate/formoterol combination formulated by co-suspension delivery technology. *Int J Chron Obstruct Pulmon Dis.* 2018 Sep 7;13:2805-2819.
- 51.** Baker AM, Holbrook JT, Yohannes AM, Eakin MN, Sugar EA, Henderson RJ, Casper AS, Kaminsky DA, Rea AL, Mathews AM, Que LG, Ramsdell JW, Gerald LB, Wise RA, **Hanania NA**; for American Lung Association Airways Clinical Research Centers. Test Performance Characteristics of the AIR, GAD-7 and HADS-Anxiety Screening Questionnaires for Anxiety in Chronic Obstructive Pulmonary Disease. *Ann Am Thorac Soc.* 2018 Jul 9. doi: 10.1513/AnnalsATS.201708-631OC.

- 52.** Braman SS, Carlin BW, **Hanania NA**, Mahler DA, Ohar JA, Pinto-Plata V, Shah T, Eubanks D, Dhand R. Results of a Pulmonologist Survey Regarding Knowledge and Practices With Inhalation Devices for COPD. *Respir Care*. 2018 Jul;63(7):840-848.
- 53.** Dhand R, Mahler DA, Carlin BW, **Hanania NA**, Ohar JA, Pinto-Plata V, Shah T, Eubanks D, Braman SS. Results of a Patient Survey Regarding COPD Knowledge, Treatment Experiences, and Practices With Inhalation Devices. *Respir Care*. 2018 Jul;63(7):833-839.
- 54.** Ayyar L, **Shaib F**, **Guntupalli K**. *Sleep Med Clin*. 2018 Sep;13(3):349-357. doi: 10.1016/j.jsmc.2018.04.005. Review.
- 55.** Kapoor S, **Morgan CK**, **Siddique MA**, **Guntupalli KK**. *Am J Hosp Palliat Care*. 2018 Oct;35(10):1337-1341. doi: 10.1177/1049909118768247. Epub 2018 Apr 4.
- 56.** Kapoor S, **Morgan CK**, **Siddique MA**, **Guntupalli KK**. *World J Crit Care Med*. 2018 Nov 30;7(6):73-83. doi: 10.5492/wjccm.v7.i6.73. eCollection 2018 Nov 30.
- 57.** Cornacchia M, Sethness J, **Alapat P**, Lin YH, Peacock C. *Am J Intellect Dev Disabil*. 2019 Jan;124(1):4-10. doi: 10.1352/1944-7558-124.1.4.
- 58.** **Nowakowski S**, Meers JM. *Sleep Med Clin*. 2019 Jun;14(2):185-197. doi: 10.1016/j.jsmc.2019.01.002. Epub 2019 Mar 27. Review.
- 59.** Cho NY, Kim S, **Nowakowski S**, Shin C, Suh S. *Menopause*. 2019 Apr;26(4):357-364. doi: 10.1097/GME.0000000000001257.
- 60.** Randall C, **Nowakowski S**, Ellis JG. *Behav Sleep Med*. 2018 Oct 5:1-10. doi: 10.1080/15402002.2018.1518227. [Epub ahead of print]
- 61.** Ong JC, Arand D, Schmitz M, Baron K, Blackburn R, Grandner MA, Lichstein KL, **Nowakowski S**, Teixeira C, Boling K, C Dawson S, Hansen K. *Behav Sleep Med*. 2018 Nov-Dec;16(6):523-526. doi: 10.1080/15402002.2018.1507672. Epub 2018 Aug 17. No abstract available.
- 62.** **Kao CC**, Cuevas JF, Tuthill S, **Parulekar AD**. *Clin Transplant*. 2019 May 16:e13592. doi: 10.1111/ctr.13592. [Epub ahead of print]
- 63.** **Kao CC**, **Parulekar AD**. *J Asthma Allergy*. 2019 Jan 3;12:1-5. doi: 10.2147/JAA.S167973. eCollection 2019. Review.
- 64.** **Kao CC**, Cuevas JF, Tuthill S, **Parulekar AD**. *Clin Transplant*. 2019 May 16:e13592. doi: 10.1111/ctr.13592. [Epub ahead of print]
- 65.** **Kao CC**, **Parulekar AD**. *J Asthma Allergy*. 2019 Jan 3;12:1-5. doi: 10.2147/JAA.S167973. eCollection 2019. Review.
- 66.** Solaiman SS, **Agrawal R**. *J Clin Sleep Med*. 2018 Mar 15;14(3):483-484. doi: 10.5664/jcsm.7008.

## 8. 2019-2020 Fellowship Graduates

### Pulmonary & Critical Care Medicine

Dr. Sunjay Devarajan  
Dr. Katie Jeans  
Dr. Katherine Moeller  
Dr. Robbie Maxson

### Critical Care Medicine

Dr. Badr Alsaleh  
Dr. Bria Giacomino  
Dr. Megan Gooch  
Dr. Simran Matta  
Dr. Sri Kartik Valluri

### Sleep Medicine

Dr. Myrtle Jeroudi  
Dr. Skantha Manjunath  
Dr. Jen Molina  
Dr. Jose Moonjely