

BIOGRAPHICAL SKETCH

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NAME: Jennifer L. Trevor

eRA COMMONS USER NAME (credential, e.g., agency login): JLTREVOR

POSITION TITLE: Assistant Professor of Medicine

EDUCATION/TRAINING *(Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable. Add/delete rows as necessary.)*

| INSTITUTION AND LOCATION | DEGREE (if applicable) | Completion Date MM/YYYY | FIELD OF STUDY |
|---|---------------------------|----------------------------|-----------------------------|
| University of Alabama at Birmingham | B.S. | 05/2002 | Molecular Biology |
| University of South Alabama College of Medicine | M.D. | 05/2006 | Medicine |
| Wake Forest University Baptist Medical Center | Residency | 06/2009 | Internal Medicine |
| University of Alabama at Birmingham | Fellowship | 06/2013 | Pulmonary/CCM |
| Birmingham VA Medical Center | Fellowship | 06/2015 | National VA Quality Scholar |

A. Personal Statement

After completing her Fellowship in Pulmonary and Critical Care Medicine at the University of Alabama at Birmingham (UAB) in 2013, Dr. Trevor chose to stay on faculty as an Assistant Professor to continue her efforts to promote the science and understanding of asthma by building a comprehensive asthma program. Through her partnership with other investigators, she has worked to advance the translational asthma research program by creating a bio-specimen repository for shared use. Additionally, she has developed the clinical asthma research program and serves as the Principal Investigator or Co-Investigator on NIH funded and industry sponsored clinical trials. She created a Severe Asthma Clinic at UAB and serves as the Director of the Clinical Asthma Program which offers comprehensive care to patients with severe asthma.

B. Positions and Honors

| | |
|--------------|---|
| 2009-2010 | Instructor of Medicine at Wake Forest University Baptist Medical Center |
| 2010-present | Member American College of Chest Physicians |
| 2010-present | Member American Thoracic Society |
| 2013-present | Assistant Professor of Medicine, University of Alabama at Birmingham |
| 2015-present | Physician, Birmingham VA Medical Center |

Honors

| | |
|---------|--|
| 05/2012 | American Thoracic Society Travel Award from the Assembly on Microbiology, Tuberculosis, and Pulmonary Infection |
| 10/2012 | American College of Chest Physicians nominee for "7 th Asthma Fellows Conference" with travel stipend |

| | |
|--------------|---|
| 2015-present | Ad Hoc reviewer for Journal of Asthma |
| 2016-present | Appointed Alabama Representative to the ATS Council of Chapter Representatives |
| 05/2016 | ATS 2016, Discussion facilitator for thematic poster session, Asthma: Observation studies |
| 08/2016 | Invited author for UAB CME online course for asthma |
| 10/2016 | CHEST 2016, Session moderator, Original Investigations: Asthma Guidelines and Outcomes |
| 2016-present | Ad Hoc reviewer BMC Pulmonary |
| 12/2016 | American Thoracic Society Great Cases Abstract Reviewer for International Conference 2017 |

C. Contributions to Science

1. Dr. Trevor has worked closely with investigators within her division including Chad Steele, PhD, renowned in the field of immunology for his work in fungal asthma. She spent time in his laboratory during her fellowship exploring innate and adaptive immune responses to *Pneumocystis murina* in a mouse model. She has also worked with Jessy Deshane PhD, who has expertise in the role of myeloid cells in asthma on several internally funded projects which are currently in progress as well as her FAMRI funded study and RO1.
 - a. Myers RC, Dunaway CW, Nelson MP, **Trevor JL**, Morris A, Steele C. STAT-4 Dependent and Independent Th2 Responses Correlate with Protective Immunity Against Lung Infection with *Pneumocystis murina*. J Immunol 2013 Jun 15; 190(12):6287-94. doi: 10.4049/jimmunol.1300431. PMID: 23650614
 - b. Nelson MP, Cristmann BS, Werner JL, Metz AE, **Trevor JL**, Lowell CA, and Steele C. IL33 and M2A Macrophages Promote Lung Defenses Against the Atypical Fungal Pathogen *Pneumocystis Murina*. J Immunol 2011; 186; 2372-2381. doi: 10.4049/jimmunol.100255. PMID: 21220696.
 - c. **Trevor J**, Deshane J. Refractory Asthma: Mechanisms, Targets, and Therapy. Allergy 2014 Jul; 69(7):817-27. doi: 10.1111/all.12412. PMID: 24773466/ PMCID: PMC4279947.
2. During her fellowship, Dr. Trevor had the opportunity to spend time working in India at the Postgraduate Institute of Medical Education and Research in Chandigarh, India under the supervision of Dr. Surinder Jindal. Out of this experience, she wrote a systematic review article on the effects of biomass fuel on the prevalence of asthma. Subsequently, she was invited to participate in the writing of a textbook chapter by Dr. Jindal.
 - a. **Trevor J**, Antony V, Jindal S. The effect of biomass fuel exposure on the prevalence of asthma in adults in India- review of current evidence. J Asthma. 2014 Mar; 51(2):136-41. doi: 10.3109/02770903.2013.849269. PMID: 24164361.
 - b. Willoughby J, Raush N, Trevor J. "*Chronic Respiratory Failure*." World Clin Pulm Crit Care Med. 2015;4(2):122-35.
3. Dr. Trevor has done work in the area of quality improvement through her fellowship as a National VA Quality Scholar. She has focused her work on identifying measures to improve the quality and value of the care her patients receive. To this end, she performed a retrospective review examining the potential benefits to asthma patients who participate in a comprehensive pulmonary rehabilitation program.
 - a. **Trevor JL**, Bhatt S, Wells M, Schumann C, Kirkpatrick D, Dransfield M. Benefits of Pulmonary Rehabilitation for Patients with Asthma. Journal of Asthma, August 2015. <http://dx.doi.org/10.3109/02770903.2015.1025410>. PMID: 26287942
 - b. Iyer AS, Bhatt SP, Garner JJ, Wells JM, **Trevor JL**, Patel NM, et al. Depression is Associated with Readmission Due To Acute Exacerbation Of Chronic Obstructive Pulmonary Disease.

4. Dr. Trevor has participated in NIH funded and industry sponsored clinical trials looking at new therapies to treat severe persistent asthma.
 - a. Prof Geoffrey L Chupp, Eric S Bradford, MD, Frank C Albers, MD, Daniel J Bratton, PhD, Jie Wang-Jairaj, MD, Linda M Nelsen, MHS, **Jennifer L Trevor, MD**, Prof Antoine Magnan, MD, Anneke ten Brinke, MD. Efficacy of mepolizumab add-on therapy on health-related quality of life and markers of asthma control in severe eosinophilic asthma (MUSCA): a randomised, double-blind, placebo-controlled, parallel-group, multicentre, phase 3b trial. The Lancet Respiratory Medicine, Volume 5, Issue 5, 390 – 400. PMID: 28395936.
 - b. Katherine N. Cahill, M.D., Howard R. Katz, Ph.D., Jing Cui, M.D., Ph.D., Juying Lai, M.D., Shamsah Kazani, M.D., Allison Crosby-Thompson, Denise Garofalo, , Mario Castro, M.D., Nizar Jarjour, M.D., Emily DiMango, M.D., Serpil Erzurum, M.D., Jennifer L. Trevor, M.D., Kartik Shenoy, M.D., Vernon M. Chinchilli, Ph.D., Michael E. Wechsler, M.D., Tanya M. Laidlaw, M.D., Joshua A. Boyce, M.D., and Elliot Israel, M.D. KIT Inhibition by Imatinib in Patients with Severe Refractory Asthma. New England Journal of Medicine (in press).

D. Additional Information: Research Support and/or Scholastic Performance

Brigham and Women's Hospital, Elliot Israel, M.D. (PI)
01/2013-01/2016
KIA-001

A 30-34 week, treatment randomized, double-blind, placebo-controlled study of the effects of cKit inhibition by imatinib in patients with severe refractory asthma
Role: Co-Investigator

Northwestern University, Sharon Rosenberg, M.D. (PI)
05/2015-02/2017
Evaluation of the Relationship Between Daytime Activity and Sleep on Asthma Symptoms in Pregnant Asthmatic Patients (B Well MOM Ancillary Study)
Role: Co-PI

Washington University in St. Louis, Mario Castro, M.D. (PI)
06/2014-present
A Prospective Observational Study of Biopredictors of Bronchial Thermoplasty Response in patients with Severe Refractory Asthma (BTR Study)
Role: Co-Investigator

GlaxoSmithKline
04/2015-07/2016
2013N187698
A randomized, double-blind, placebo-controlled, parallel-group, multi-center 24-week study to evaluate the efficacy and safety of Mepolizumab adjunctive therapy in subjects with severe eosinophilic asthma in markers of asthma control.
Role: Site Principal Investigator

AstraZeneca
05/2015-present
D2210C00008
A 52 week, multicenter, randomized, double-blind, parallel group, placebo controlled, phase 3 study to evaluate the efficacy and safety of Tralokinumab in adults and adolescents with asthma inadequately controlled on inhaled corticosteroids plus long-acting- β_2 -agonists (STRATOS 2).
Role: Site Principal Investigator

Asthma Clinical Database and Biospecimen Repository

10/2015-present

FWA00005960

An internally funded and maintained database and biospecimen repository of the asthma patients in the UAB Asthma Clinic.

Role: Co-Principal Investigator with Chad Steele, PhD

Myeloid-derived regulatory cells in asthma

NIH R01 (Jessy Deshane, PhD, PI)

03/2016-present

F151209005

To determine if myeloid-derived regulatory cells cause post-translational modification of self-peptides, that are then recognized as neo-antigens which stimulate auto-antibody and T helper cell responses that cause or contribute to the immune-pathology of asthma.

Role: Co-Investigator

Novartis

04/2016-present

CQAW039A2307

A 52 week, multicenter, randomized, double-blind, placebo-controlled study to assess the efficacy and safety of QAW039 when added to existing asthma therapy in patients with uncontrolled severe asthma.

Role: Site Principal Investigator