Sreekala Prabhakaran, M.D, ABSM, FAAP

 sprabhakaran@peds.ufl.edu

**EDUCATION AND TRAINING:**

**University of Florida** 07/2009 –

Fellowship: Sleep Medicine 06/2010

Gainesville, FL

**University of Florida** 07/2006 –

Fellowship: Pediatric Pulmonary Medicine 06/2009

Gainesville, FL

**Maimonides Medical Center** 07/2002 –

Residency: Pediatrics 08/2005

Regional affiliates, Lutheran Medical Center &

Coney Island Hospital

Brooklyn, NY

**Kottayam Medical College** 08/1993-

Medical School: MBBS 09/1999

Kerala, India

**Mahatma Gandhi University** 06/1991**-**

Undergraduate in Science 05/1993

Kerala, India

**PROFESSIONAL EXPERIENCE:**

Interim-Chief Pediatric Pulmonary and 02/2019-

Sleep Medicine present

Department of Pediatrics, UF Health

University of Florida, Gainesville

Clinical Associate Professor

Department of Pediatrics, UF Health 07/2017 -

University of Florida present

Gainesville

Clinical Assistant Professor

Department of Pediatrics, UF Health 07/2010 -

University of Florida 07/2017

Gainesville

Clinical Adjunct Professor 07/2009-

Department of Pediatrics 062010 –

University of Florida,

Gainesville

General Hospitalist 10/1999-

Mercy Hospital, Kottayam 04/2000

Kerala, India

**PROFESSIONAL LICENSURE AND CERTIFICATION:**

Board Certified, Sleep Medicine, American Board of Pediatrics, 2013

Board Certified, Pediatric Pulmonary, American Board of Pediatrics, 2010

Board Certified, Pediatrics, American Board of Pediatrics, 2005

ECFMG Certification, 2002

Introduction to Clinical/Translational Research Course by GCRC, 2007

Pediatric Flexible Bronchoscopy course, Dr. Robert E. Wood, 2006

State of Florida Medical License, ME# 94618, 2005 - present

**AWARDS:**

University of Florida Office of Technology Licensing Inventor Award 2016

Faculty Enhancement Opportunity Award - 2016

Selected to the COM leadership program – 2016

Children’s Miracle Network Award for Severe Asthma Program 2015-2016

Children’s Miracle Network Discovery Award, Radiation induced Pulmonary Fibrosis 2014-2015

University of Florida Office of Technology Licensing Inventor Award for NSP4 induced chloride secretion in Cystic Fibrosis 2014

Pediatric Pulmonary Division Research Award, Calcium Activated Chloride Channels in Cystic Fibrosis, 2012-2013

UF Clinical and Translational Science Award 2009 UL1 RR029890

Children’s Miracle Network Research Award, Nocturnal Asthma Study, 2008

**PROFESSIONAL ORGANIZATIONS/SOCIETIES:**

American Academy of Pediatrics fellow 2016-present

European Respiratory Society 2014 – present

American Association of Sleep Medicine 2009 – present

American Thoracic Society 2006 - present

**Major Committee Assignments:**

Search Committee Pediatric Pulmonary faculty 2016, 2017, 2019

American Pediatric Pulmonary Board Review Committee 2018

**ADDITIONAL TEACHING DUTIES AND CURRICULUM DEVELOPMENT:**

**Pediatric Pulmonary Center training liaison** 2014 - present

**Pediatric Pulmonary Core Curriculum Development** 2012 -2015

 Pediatric Residents, University of Florida

**MENTORING/ADVISOR**

1. July 2016-Present- serving as a faculty mentor to Dr. Trang Bui and Matt Pertzborn. I am actively mentoring Dr. Perzborn in 2 projects which involve school asthma maintenance program (published) and Benzalkonium induced bronchospasm in albuterol (in the process of publication).
2. July 2015- June 2018- Served as a faculty mentor to Dr. Brandon Seay (Pediatric pulmonary fellow) meeting twice a year to review evaluations, discuss personal strengths and weaknesses, mentoring him in the clinic at least once a month. Dr. Seay’s case report was accepted for the American Thoracic Society conference 2016, San Francisco under my guidance.
3. July 2014- June 2017- Served as a faculty mentor to Dr. Yanerys Colon (Pediatric pulmonary fellow) meeting several times a year to review evaluations, her progress in research work, mentoring her in the clinic at least once a month.
4. July 2012- June 2015- Served as a faculty mentor to Dr. Pritish Mondal (Pediatric Pulmonary fellow) meeting with him several times a year to review evaluations, teaching clinical skills, discussing ways to improveme his research paper. We published a paper in Pediatric pulmonology in 2016 about the Bioassay of Salmeterol in Children Using Methacholine Challenge with Impulse Oscillometry (Mondal P (f), Baumstein S, **Prabhakaran S**, Abu-Hasan M, Zeng Y, Singh S, Wang K, Ahrens RC, and Hendeles L.
5. July 2010- December 2012- Served as a faculty mentor to Dr. Mai Elmallah, meeting at least twice a year to review evaluations, teaching in the clinics and in-patient service. We published a case report in pediatric pulmonology in 2011, Plastic bronchitis: Resolution after heart transplantation. (ElMallah MK (f), **Prabhakaran S**, and Chesrown SE.

**PUBLICATIONS:**

1. Cushing CC, Fedele DA, Patton SR, McQuaid EL, Smyth JM, **Prabhakaran S,** Gierer S, Koskela-Staples N, Ortega A, Fleming KK, Nezu AM. [Responsive Asthma Care for Teens (ReACT): development protocol for an adaptive mobile health intervention for adolescents with asthma.](https://www.ncbi.nlm.nih.gov/pubmed/31434777) BMJ Open. 2019 Aug 20;9(8):e030029. doi: 10.1136/bmjopen-2019-030029.
2. Perzborn M, **Prabhakaran S**, Hardy A, Baker D, Robinson M, Hendeles L 2018 “Direct Observed Therapy of Inhaled Corticosteroids for Asthma at School or Daycare” Pediatric Allergy, Immunology, And Pulmonology. Nov 4. Doi: 10.1089/ped.2018.0912
3. **Prabhakaran S**, Abu-Hasan M, Hendeles L 2017 “Benzalkonium Chloride; A Bronchoconstricting Preservative in Continuous Albuterol Nebulizer Solutions” Pharmacotherapy. Mar 28. doi: 10.1002/phar.1929.
4. Mondal P(f), Baumstein S, **Prabhakaran S**, Abu-Hasan M, Zeng Y, Singh S, Wang K, Ahrens RC, Hendeles L 2016 Bioassay of salmeterol in children using methacholine challenge with impulse oscillometry. Pediatric Pulmonology. June 51; 6: 570-575
5. **Prabhakaran S**, Kim K, Gong Y, Hendeles L 2016 Long-term variability of exhaled nitric oxide measurements. Journal of Allergy Clinical Immunology Practice. Jan-Feb 4; 1: 147-148
6. Yin L, Vijaygopal P, MacGregor GG, Menon R, Ranganathan P, **Prabhakaran S**, Zhang L, Zhang M, Binder HJ, Okunieff P, and Vidyasagar S. 2014. Glucose stimulates calcium-activated chloride secretion in small intestinal cells.  *American Journal of Physiology: Cell Physiology.*  Apr 1; 306: 687-696.
7. O’Dell W, Govindarajan S, Salgia A, Hegde S, **Prabhakaran S** 2014. Traversing and labeling interconnected vasculature tree structures from 3D medical images. Proc, SPIE 9034, Medical Imaging: Image processing March 21
8. **Prabhakaran S**, Shuster J, Chesrown S, and Hendeles L. 2012. Response to albuterol MDI delivered through an anti-static chamber during nocturnal bronchospasm.  *Respiratory Care.*  Aug; 57(8): 1291-6.
9. ElMallah MK(f), **Prabhakaran S**, and Chesrown SE. 2011. Plastic bronchitis: resolution after heart transplantation.  *Pediatric Pulmonology.*  Aug; 46(8):824-5: 824-5.
10. **Prabhakaran S**, Shuster J, Ahrens R, and Hendeles L. 2011. Methacholine challenge as a clinical bioassay of pulmonary delivery of a long-acting β₂-adrenergic agonist.  *Pharmacotherapy.*  May; 31(5): 449-57.

**Book Chapter:**

1. Mallory Netz, David Fedele, Susan Horky, Sreekala Prabhakaran. Asthma Handbook of Pediatric Behavioral Healthcare: An Interdisciplinary, Collaborative Approach. 2018 Springer

**ABSTRACTS:**

1. Sweenie, R., Fedele, D.A., Agollari, K., **Prabhakaran, S**., Baker, D., Perry, S., & Cushing, C.C. (2019, April). Leveraging intensive longitudinal data collection to understand adherence in adolescents diagnosed with asthma. Poster presented at the Society of Pediatric Psychology Annual Conference, New Orleans, L.A.
2. **Prabhakaran S**, Yin L, Menon R, Perungavur R, Okunieff P, Vidyasagar S 2013. Glucose increases NSP4 induced chloride secretion in cystic fibrosis. Pediatric Pulmonology September 48: 301
3. Yin L, Menon R**, Prabhakaran S**, Zhang A, Okunieff P, Vidyasagar S 2013 Ontogeny of NHE3 expression affects NSP4- stimulated chloride secretion. Gastroenterology 144 (5): S-665
4. Menon R, Yin L, Perungavur R, **Prabhakaran S**, Zhang A, Okunieff P, Vidyasagar S. 2013 Glucose increase NSP4 induced chloride secretion. Gastroenterology 144(5) S-665
5. **Prabhakaran S**, Shuster J, Chesrown S, Hendeles L 2011. Response to albuterol delivered through an anti-static valved holding chamber during nocturnal bronchospasm. Journal of Allergy and Clinical Immunology January 127(2)

**LECTURES, SPEECHES, POSTERS PRESENTED AT PROFESSIONAL CONFERENCES**

 **International**

 **Invited**

1. **Prabhakaran S**. Moderator in a poster discussion session entitled “Asthma in Infants and Children” at the International Conference of the American Thoracic Society in Washington May 2017.
2. **Prabhakaran S**, Pradeep N, Sugathan S, Vidyasagar S. Functional studies for the selection of active principle or compounds from medicinal plants to improve rehydration following infectious Gastroenteritis. Invited presentation to Kerala Biotechnology Commission in India. March 2016
3. **Prabhakaran S**, Haridas M, Bhavya B, Sabu A, Vidyasagar S. Functional studies for developing therapeutics from herbal compounds targeting inflammation and malnutrition. Invited presentation to Kerala Biotechnology Commission in India. March 2016

**National:**

 **Refereed**

1. Seay B(f), **Prabhakaran, S,** Abu-Hasan, M. Lactic acidosis in Status Asthmaticus: A Potential Side Effect of Albuterol Treatment. Poster American Thoracic Society Conference San-Francisco May 2016
2. O’Dell, W.G, Govindarajan, S.T(g), Salgia, A(g), Hegde, S., **Prabhakaran, S**., Finol, E., White, R.J “Method for traversing and labeling complex vascular tree structures from 3D medical images: description, validation and application,” poster presentation to SPIE Medical Imaging Conference, San Diego CA Feb. 2014
3. **Prabhakaran, S.** Yin, L. Menon, R. Perungavur, R. Okunieff, P. Vidyasagar, S. Glucose increases NSP4114-135 induced chloride secretion in cystic fibrosis. Poster presentation, North American Cystic Fibrosis Conference Salt Lake City, Utah, October 2013
4. **Prabhakaran S**, Yin L, Menon R, Zhang M, O’Dell W, Abu-Hasan M, Vidyasagar S. Selective Amino Acid Mixture Decreases Chronic Lung Complications In Irradiated Mice. Poster presentation ATS International Conference Philadelphia May 2013
5. Liangjie L; Menon R; **Prabhakaran S**; Zhang A; Okunieff P; Vidyasagar S. Ontogeny of NHE3 expression affects NSP4 - stimulated chloride secretion, Poster presentation Digestive Disease Week International Conference Orlando May 2013
6. Menon R; Yin L; Perungavur R; **Prabhakaran S**; Zhang A; Okunieff P; Vidyasagar S. Glucose increases NSP4 - induced chloride secretion. Poster presentation Digestive Disease Week International Conference Orlando May 2013.
7. **Prabhakaran S**, Shuster J, Chesrown S, Hendeles L. The impact of an antistatic chamber on response to HFA albuterol during nocturnal bronchospasm**:** oral presentation for American Academy Of Allergy Asthma and Immunology in San-Francisco March 2011.

 **State:**

 **Invited:**

1. Prabhakaran, S. Severe Asthma in Children. Florida Asthma Coalition. Orlando February 2018
2. **Prabhakaran, S.** Pediatric Narcolepsy. First Coast Pediatric Sleep Symposium, CME. Jacksonville April 2012

**Referred**

1. Krietsch K, Wagner M, Baker D, **Prabhakaran S**, Janicke D, McCrae C.Comparison of Sleep Parameters in Healthy, Overweight, and Obese Youth. Poster presentation. Pediatric Behavioral Sleep Medicine Conference, Amelia Island, Florida Nov 2014
2. Mundt J, Wagner M, Baker D, **Prabhakaran S**, Janicke D, McCrae C. Association of Weight Status with Sleep Hygiene and Bedtime Problems in Pediatric Sleep Patients. Poster presentation. Pediatric Behavioral Sleep Medicine Conference, Amelia Island, Florida Nov 2013

 **Local**

 **Refereed**

1. Sweenie R., Sweenie, R., Cushing, C.C., Prabhakaram, S., Baker, D., & Fedele, D.A. Examination of family environment, stress, and health disparities in youth with asthma*.* Poster presentation at University of Florida Diversity Day, Gainesville, FL. January 2017
2. Fajardo M, Pudhucode R, Hegde S, **Prabhakaran S**, O’Dell W. Quantifying Pulmonary Vasculature Development and Remodeling in Pediatrics Patients. Poster presentation Undergrad Research Symposium at University of Florida- 2014
3. O'Dell W, Hegde S, **Prabhakaran S.** Quantification of 3D pulmonary vascular morphology in pediatric patients with pulmonary vascular disease Poster Presentation, Cancer Center Research Day University of Florida 2013
4. Yin L; Menon R,; **Prabhakaran S**; Zhang A; Okunieff, P; Vidyasagar S. Ontogeny of NHE3 expression affects NSP4 - stimulated chloride secretion, Poster presentation Poster Presentation College of Medicine Research Day University of Florida 2013
5. Menon R; Yin L; Perungavur R; **Prabhakaran S**; Zhang A; Okunieff P; Vidyasagar S. Glucose increases NSP4 - induced chloride secretion. Poster presentation Poster Presentation College of Medicine Research Day University of Florida 2013
6. O’Dell W, Patel D, Patel S, Shah A, **Prabhakaran S**, Hedge S. Quantification of 3D pulmonary vascular morphology in pediatric patients with pulmonary vascular disease. Poster Presentation College of Medicine Research Day University of Florida 2013
7. Menon R, Yin L, Perungavur R, **Prabhakaran S**, Zhang A, Zhang L, Okunieff P, Vidyasagar S Glucose increases NSP4-induced chloride secretion. Poster Presentation College of Medicine Research Day University of Florida 2013
8. Yin L, Menon R, **Prabhakaran S**, Zhang M, O’Dell W, Abu-Hasan M, Okunieff P, Vidyasagar S.Selective Amino Acid Mixture Decreases Chronic Lung Complications In Irradiated Mice. Poster presentation Cancer Center Research Day University of Florida April 2013
9. **Prabhakaran S**, Shuster J, Ahrens R, Hendeles L. Methacholine Challenge as a Clinical Bioassay of Pulmonary Delivery of a Long-Acting \_2-Adrenergic Agonist. Poster presentation Pediatric Science Day at University of Florida-2009

**LECTURES**

1. Severe Asthma in children PPC lecture, February 2017
2. Asthma in Children, Suwannee County School Board nurses lecture November 2016
3. Asthma in Children, Alachua County School Board nurses lecture August 2016
4. Diagnosis and management of Severe Asthma Pediatric Pulmonary faculty lecture April 2016
5. Pediatric House staff Nelson lecture series: Aspiration syndrome November 2015
6. Pediatric Pulmonary Core lecture series. Narcolepsy March 2015
7. Pediatric House staff Nelson lecture series UF Health, Pneumonia, Bronchiolitis October 2014
8. Pediatric Pulmonary Core lecture series. Ventilation/Perfusion mismatch, Alveolar Ventilation February 2014
9. Pediatric House staff Nelson lecture series UF Health, Aspiration Syndrome June 2013
10. Pediatric Pulmonary Research Conference: Glucose and NSP4 induced Chloride secretion in Cystic Fibrosis. February 2013
11. Pediatric Pulmonary Core lecture series, Neonatal acute lung disease. October 2012
12. CME- First Coast Pediatric Sleep Symposium, Pediatric Narcolepsy. Jacksonville April 2012
13. Pediatric House staff Nelson lecture series Shands Children’s Hospital. Bronchiectasis, Pneumonia, 2012
14. Pediatric Pulmonary physiology core lecture series: Alveolar Ventilation, Ventilation/Perfusion mismatch- 2012
15. Pediatric Pulmonary Core lecture series, Alpha-1-AT deficiency, June 2012
16. Pediatric Pulmonary Core lecture series, Lung Structure and Function March 2011
17. Pediatric House staff Nelson lecture series Shand’s Children’s Hospital. Bronchiectasis, Pneumonia, 2011
18. Pediatric Pulmonary physiology core lecture series: Alveolar Ventilation, Ventilation/Perfusion mismatch- 2011
19. Pediatric Pulmonary Core lecture series, Alpha-1-AT deficiency, June 2011
20. Pediatric Pulmonary Core lecture series- BTS guidelines for the management of pleural effusion, Pediatric interstitial lung disease- 2010
21. Core lecture series in sleep medicine, University of Florida- Insomnia diagnosis and management, light therapy and sleep, 2009-2010
22. Case presentation in Pediatric Pulmonology, Updates in Pediatric Pulmonology Care X, University of Florida Pediatric Pulmonary Center- 2010

**INTERNATIONAL ACTIVITIES:**

I was the Village Community Health Program Leader for Polio, Tuberculosis and Leprosy in Kerala, India in 1999 and 2000

I provide medical educational activities once a year in India. I give formal and informal presentations to small groups of Indian physicians, other healthcare providers and clinical consultations as needed. I conduct free clinics to poor people and provide free medications to children and adults. This gives me personal satisfaction and allows me to give back to my country.

I have a strong interest in global health. My goal is to help the children in India and Africa while the disparities in healthcare and health outcomes in the United States are very concerning, the disparities between US health and the health of developing nations are alarming. Children in these countries have minimal access to subspecialty care and the mortality rates for asthma, other respiratory conditions, malnutrition and diarrhea are high. I feel privileged to have received excellent training and to work in a state-of-the art healthcare facility. I plan to continue to donate some of my time to provide at least some opportunity for subspecialty care to children in poverty.

I participated in a 30 minute television show in the African Television Network “Time for Health” on July 13th 2015. In this show we discussed the symptoms, pathophysiology, triggers and treatment for asthma in a simple language for local people. More than 500 people watched the show using facebook technology.

I provided an invited presentation at the Kerala Biotechnology Commission in India on the topics of diarrhea and malnutrition in March of 2016.

I actively involved in the Zambian Medical Mission July 2018

**CONFERENCES ATTENDED:**

American Academy of Sleep Medicine 2018

American Thoracic Society Conference 2017

Pediatric Pulmonary Celebration 2015

Cystic Fibrosis Conference 2014

Digestive Disease Week Conference 2013

American Thoracic Society Conference 2013

Cystic Fibrosis Conference 2012

American Academy of Sleep Medicine Conference 2012

ACCP Pediatric Pulmonary Board Review 2010

American Academy of Sleep Medicine Conference 2010

American Thoracic Society Conference 2008

Pediatric Pulmonology Celebration Conference 2008

Cystic Fibrosis Conference 2007

**GRANTS AWARDED/ SUBMITTED:**

1. NHLBI: R56HL141384-01A1 Role: Co-PI 5% support 10/1/2018-06/30/2022 Title: Child Asthma Exacerbation: Role of Caregiver Risk Beliefs
2. NHLBI: R01HL137680-01A1 Role: Co-PI 5% support 9/20/2018-8/31/2019 Title: ReACT: An Adaptive Mobile Health Intervention for Adolescent Asthma
3. Pediatric Pulmonary Center Education (PPC), HRSA/MCHB grant# T72-MC0002 (2015-2020) 2% support. Role: “Faculty, UF Pediatric Pulmonary Center Interdisciplinary Leadership Training Program”.
4. Faculty Enhancement Opportunity grant 2016 $12,461
5. Children’s Miracle Network Pilot Grant to establish the Severe Asthma Program 2015-2016 $50,000
6. Radiation Induced Pulmonary Fibrosis, CMN Discovery Award 2013-2014, 5% salary support
7. Role of Cacium-activated chloride channel in cystic fibrosis lung (00085881) May 2012-2013, $20,759

**GRANTS SUBMITTED BUT NOT FUNDED**:

1. June 2015. Co-Project lead in the PedTech NIH grant for Asthma: PRISMS Technology Center for Pediatric Research and Disease Management. U54 Center Grant Proposal submitted to the National Institutes of Health. Scored but not funded. $4M proposed with 8% effort for my proposal role as Co-Project lead.
2. March 2015. American Lung Association Social/Behavioral grant. $40,000. I was the PI in the grant.
3. July 2013 Co-PI in James & Esther King Biomedical Research Grant Quantifying biomarkers of structurally abnormal pulmonary vasculature in smokers PI Walter O’Dell PhD, Department of Radiation Oncology
4. December 2013 Co-PI in quantifying pulmonary vasculature development and remodeling in pediatric patients. Research Opportunity Seed Fund University of Florida, &100,000. PI Walter O’Dell PhD, Department of Radiation Oncology

**OTHER INTERESTS:**

Spending time with my two daughters, music, playing flute.

Meditation and well-being.