

UNIVERSITY OF PENNSYLVANIA - PERELMAN SCHOOL OF MEDICINE
Curriculum Vitae

Date: 12/03/2025

Krithika Lingappan, MBBS, PhD, MS

Address: Children's Hospital of Philadelphia
Division of Neonatology
3401 Civic Center Boulevard
Philadelphia, PA 19014 USA

If you are not a U.S. citizen or holder of a permanent visa, please indicate the type of visa you have:
none (U.S. citizen)

Education:

2002	MBBS	Kilpauk Medical College, MGR Medical University, India (Medicine)
2012	MS	Baylor College of Medicine (Clinical Scientist Training Program)
2018	PhD	Baylor College of Medicine Graduate School of Biomedical Sciences (Clinical Scientist Training Program)

Postgraduate Training and Fellowship Appointments:

2003-2005	Resident, Pediatrics, Post Graduate Institute of Medical Education and Research, Chandigarh, India
2006-2007	Intern, Pediatrics, Miami Children's Hospital, Miami, FL
2007-2009	Resident, Pediatrics, University of Chicago, Chicago, IL
2009-2012	Fellow, Neonatal-Perinatal Medicine, Baylor College of Medicine, Houston, TX

Faculty Appointments:

2012-2020	Assistant Professor, Baylor College of Medicine
2020-2021	Associate Professor with Tenure, Baylor College of Medicine
2021-present	Associate Professor of Pediatrics (Neonatology & Newborn Services), University of Pennsylvania School of Medicine

Hospital and/or Administrative Appointments:

2012-2021	Attending Physician, Texas Children's Hospital
2020-2021	Neonatology Lead, BPD Program, Texas Children's Hospital
2021-present	Attending Physician, Division of Neonatology, Children's Hospital of Philadelphia
2026-2027	Chair, Neonatal-Perinatal Sub-board, American Board of Pediatrics

Other Appointments:

2018-2021	Faculty, Clinical Scientist Training Program, Baylor College of Medicine
-----------	--

2019-2021	Faculty, Developmental Disease Models and Therapeutics Graduate Program, Baylor College of Medicine
2021-present	Faculty Member, CAMB Graduate Program, University of Pennsylvania
2021-present	Faculty Member, Lung Biology Institute, University of Pennsylvania
2022-present	Faculty Member, Institute of Translational Medicine and Therapeutics, University of Pennsylvania
2022-present	Faculty Member, Cardiovascular Institute, University of Pennsylvania
2022-present	Faculty Member, Center for Excellence in Environmental Toxicology, University of Pennsylvania
2022-present	Faculty Member, Epigenetics Institute, University of Pennsylvania
2022-present	Faculty Member, Cardiovascular Institute, Children's Hospital of Philadelphia
2023-present	Faculty Member, Pharmacology Graduate Group, University of Pennsylvania
2023-present	Faculty Member, Developmental, Stem cell and Regenerative Biology Program, University of Pennsylvania

Specialty Certification:

2009	American Board of Pediatrics
2014	American Board of Pediatrics - Neonatal-Perinatal Medicine

Licensure:

2012-2021	Texas
2021	Pennsylvania

Awards, Honors and Membership in Honorary Societies:

1997	Gold Medal in Anatomy, Kilpauk Medical College, India
1999	Gold Medal in Ophthalmology, Kilpauk Medical College, India
1999	Gold Medal in Otolaryngology, Kilpauk Medical College, India
1999	Gold Medal in Pathology, Kilpauk Medical College, India
2000	Gold Medal in Pediatrics, Kilpauk Medical College, India
2000	Gold Medal in Internal Medicine Kilpauk Medical College, India
2002	Horlicks Cash Award in recognition of performance in Bachelor of Medicine and Surgery Examination, Kilpauk Medical College, India
2002	The Balfour Memorial Medals for performance in Internal medicine, Kilpauk Medical College, India
2002	Gold Medal in Microbiology, Kilpauk Medical College, India
2002	Award for highest score in Clinical Exam in Obstetrics and

2005	Gynecology, Kilpauk Medical College, India Silver Medal for performance in final examination, Post Graduate Institute of Medical Education and Research, Chandigarh, India
2010	Second Place in poster presentation, Gulf Coast Society of Toxicology Meeting, Houston, TX
2011	First Place: Fellow and resident Poster Contest under the Hypothesis-driven research Section, Texas Pediatric Society
2011	Young Investigator Award for oral presentation, Perinatal Section of the American Academy of Pediatrics
2012	The Arnold J. Rudolph Award for outstanding teaching, patient care, scientific inquiry and professional integrity, Department of Pediatrics Section of Neonatology, Baylor College of medicine
2015	Faculty Award for Research, Southern Society of Pediatric Research
2016	Faculty Award for Research, Southern Society of Pediatric Research
2016	Best Research Award, Third Annual Neonatal Cardiopulmonary Biology Young Investigators' Forum
2017	Faculty Award for Research, Southern Society of Pediatric Research
2019	Women of Excellence Award, Baylor College of Medicine
2019	Young Investigator Award, Department of Pediatrics, Baylor College of Medicine
2019	Norton Rose Fulbright Faculty Excellence Award for Teaching and Evaluation, Baylor College of Medicine
2023	Whitsett Award, Neonatal and Developing Lung Interest Group (NDLIG), American Thoracic Society
2023	APSselect Award: "Best recently published articles in physiological research", American Physiological Society
2023	APSselect Award: "Best recently published articles in physiological research" American Journal of Physiology: Lung Cellular and Molecular Physiology
2024	Whitsett Award, Neonatal and Developing Lung Interest Group (NDLIG), American Thoracic Society
2024	Best of Pediatrics, Assembly of Pediatrics, American Thoracic Society
2024	Escobedo Lectureship, Oklahoma University Health Sciences Center
2025	Best of Pediatrics, Assembly of Pediatrics, American Thoracic Society

Memberships in Professional and Scientific Societies and Other Professional Activities:

International:

2019-Present Perinatal Research Society

(Elected Member, 2019-present
Pediatrics Council, 2023-present
Chair, Membership Committee, 2024-present)

2023-Present Organization of Sex-Specific Differences
(Elected Member, 2020-present
Council Member, 2023-present)

National:

2010-Present American Academy of Pediatrics
(Member, 2010-present
Chair, TECan (Trainee and Early Career Neonatologists, 2012-2014
Chair, Section of Neonatal-Perinatal Medicine Website Committee, 2020-2021
Chair of Planning Committee for the Workshop on Perinatal Practice Strategies Meeting, 2017-2020
Fellow Representative, Section of Neonatal-Perinatal Medicine, District VII, 2010-2012
Member, Executive Committee, Trainee and Early Career Neonatologists Committee, 2012-2014
Topic Lead, Section of Neonatal-Perinatal Medicine Quality Measures Task Force, 2019
Member, Section of Neonatal-Perinatal Medicine Marshall Klaus Awards Grant Review Committee, 2021-2023
Member, National Perinatal Practice Strategies Meeting Planning Committee, 2014-2017
Chair, Research Section, Section of Neonatal-Perinatal Medicine, 2024-present)

2010-2012 Organization of Neonatal-Perinatal Medicine Training Program Directors (Fellow Representative)

2012-Present Pediatric Academic Societies
(Member, 2012-present
Workshop and Abstract Reviewer, 2012-2021
Moderator, 2022-present
Symposia Chair, 2025)

2014-Present Society of Pediatric research (Member
APS SPR Child Health Workforce Collaboration)

2015-Present American Thoracic Society
(Member, 2015-present
Member, Respiratory Cell and Molecular Biology Program Committee, 2019-2022
Member, Awards Committee, 2019-2020
Member, Executive Committee, Newborn and Developing Lung Interest Group, 2021-present
Member, Pediatrics Executive Committee, 2022-present)

	Chair, Neonatal and Developing Lung Interest Group, 2023-present)
2016-Present	Society of Toxicology (Member)
2017-Present	NIH/NHLBI (Member, MCBS (K08/K23) MA Study section, 2017 Reviewer, R13 Study Section (Support for conferences and scientific meetings), December 2020 Reviewer, ZRG1 CVRS G (03) Study Section, 2020 Ad-hoc Reviewer, LIRR Study Section, 2022-present Reviewer, CVRS J11 (Small Business; SBIR/STTR) Study section, 2021 Reviewer, CVRS J11 (Small Business; SBIR/STTR) Study section, 2021 Reviewer, Extramural Loan repayment Program (LRP) study section, 2021, 2022, 2025 Member, MCBS (K08/K23) MA Study section, 2021 Reviewer, ZRG1 CVRS-B (11) (Small Business; SBIR/STTR) Study section, 2022 Standing Member, Mentored Clinical and Basic Science Study Section, 2022-2026)
2017	NIH/NIEHS (Ad-hoc reviewer, SIEE Study Section)
2017-present	Women in Neonatology Section of Neonatal-Perinatal Medicine American Academy of Pediatrics (Member, Steering Committee, 2017-present Committee Lead, Career Development Focus Group, 2017-2024 Chair, 2025-present)
2019-present	American Heart Association (Member, Career Development Award Study Section)
2020-2021	NIH/NICHD (Reviewer, PN Study Section, 2020 Reviewer, PN Study Section, 2021)
2022-Present	American Board of Pediatrics (Member, sub-board of Neonatology)
2022-Present	American Pediatric Society (Elected Member Journeys Program Mentor)
2022-Present	March of Dimes (Full Panel Member, 2022-present Member, Basil O'Connor Starter Scholar Research Award Review, 2022-present)
2025-Present	APS SPR Child Health Workforce Collaboration (Team Member)
2026-Present	American Board of Pediatrics

Subboard of Neonatal-Perinatal Medicine (Elected Chair of the Subboard)

Local:

2013-2021 Southern Society of Pediatric Research (Member)

2022-Present Eastern Society of Pediatric Research (Member)

Editorial Positions:

2013-Present Journal Reviewer, Toxicology and Applied Pharmacology
 2013-2015 Journal Reviewer, Plos One
 2015-Present Journal Reviewer, Pediatric Research
 2015-Present Journal Reviewer, American Journal of Physiology: Lung Cellular and Molecular Physiology
 2016-Present Journal Reviewer, Journal of Perinatology
 2017-Present Editorial Board Member, Anatomical Record
 2018-Present Journal Reviewer, Journal of Pediatrics
 2019-Present Journal Reviewer, Lancet
 2019-Present Journal Reviewer, Biology of Sex Differences
 2019-Present Editorial Board Member, NeoReviews
 2019-Present Journal Reviewer, Redox Biology
 2019-Present Journal Reviewer, Scientific Reports: American Journal of Respiratory and Critical Care Medicine
 2020-Present Editorial Board Member, American Journal of Physiology: Lung Cellular and Molecular Physiology
 2021-Present Journal Reviewer, JCI Insight
 2022-Present Journal Reviewer, JAMA Pediatrics
 2023-Present Journal Reviewer, European respiratory Journal

Academic and Institutional Committees:

2013-2021 Member, Fellowship Committee, Section of Neonatology, Baylor College of Medicine
 2015-2021 Member, Clinical Competency Committee for the Neonatology Fellowship Program, Baylor College of Medicine
 2019-2021 Member, Fellowship Recruitment Leadership of the Neonatology Fellowship Program, Baylor College of Medicine
 2020 Member, Program Admissions Committee, Clinical Translational Research Certificate of Added Qualification, Baylor College of Medicine
 2020-2021 Chair, Fellows Research, Section of Neonatology, Baylor College of Medicine
 2023-2025 Member, Neonatology Fellowship Recruitment Committee, Children's Hospital of Philadelphia
 2023-2025 Co-Chair, Academic Training Advisory Council, Children's Hospital of Philadelphia
 2023-2024 Member, Council Steering Committee, University of Pennsylvania

2023-2025	Pediatrics Representative, Faculty Senate Executive Committee, University of Pennsylvania
2024-2025	Member, Nominating Committee, Faculty Senate, University of Pennsylvania
2024-2025	Member, Committee on Committees, University Council, University of Pennsylvania
2024-2025	Member, Senate Committee on Faculty Development, Diversity, and Equity, University of Pennsylvania
2024-Present	Member, Interview Panel for medical students, University of Pennsylvania School of Medicine
2024-Present	Member, PGG Graduate Group Admissions Committee, University of Pennsylvania
2024-Present	Member, CPM Graduate Group Preliminary Advising Committee, University of Pennsylvania
2024-Present	Member, Elizabeth Blackwell Society Faculty Mentorship program, University of Pennsylvania School of Medicine
2025-Present	Member, Research Compliance Committee, University of Pennsylvania School of Medicine

Major Academic and Clinical Teaching Responsibilities:

2010-2021	NRP Instructor: Teaching NRP to medical students, residents, nurses and nurse practitioners at the Texas Children's simulation center, Texas Children's Hospital
2012-2021	Clinical Fellow Training- Neonatal Fellows, Baylor College of Medicine
2012-2021	Baylor College of Medicine, Section of Neonatology. Neonatology Research Conference
2012-2021	Eight hours a week of direct trainee interaction during clinical service to Pediatric Resident and Medical students: 2-3 pediatric residents and 1 medical student during service months, Texas Children's Hospital
2013-2018	Ben Taub General Hospital, resident lecture. Respiratory Distress in the Newborn. Monthly lectures
2013-2018	Neonatal respiratory disorders: Part of monthly lecture series for medical students/pediatric residents at Ben-Taub General Hospital
2013-2014	Research Fellow/Graduate Student Training and Mentoring, John Hoover
2013-2021	Neonatal Fellows Journal Club Coordinator, Texas Children's Hospital
2014-2021	Morphological Development of the lung: Normal and Abnormal: Part of the physiology series of lectures in the section of Neonatology, Texas Children's Hospital
2014-2021	Patent Ductus Arteriosus: Part of the physiology series of lectures in the section of Neonatology, Texas Children's Hospital
2015-2017	Research Fellow/Graduate Student Training and Mentoring, Shweta Parmekar

2015-2018	Research Fellow/Graduate Student Training and Mentoring, Rebecca Burke
2016-2019	Research Fellow/Graduate Student Training and Mentoring, Melissa Althouse
2016	Lead faculty for the design and structure of the Journal Club and EBM-appraisal skills for Neonatology Fellows journal club Series, Baylor College of Medicine
2016	"Sex-specific differences in neonatal hyperoxic lung injury", The 28th Annual Graduate Student Symposium. Graduate School of Biomedical Sciences, Baylor College of Medicine
2017	Clinical Scientist Training Program Annual Retreat. Baylor College of Medicine. Sex-specific Differences in Neonatal Hyperoxic Injury: Analysis of the Transcriptome and Differences in DNA Methylation
2017-2021	Control of Breathing: Part of the physiology series of lectures in the section of Neonatology, Texas Children's Hospital
2017	Development of curriculum to teach evidence-based medicine for Neonatology fellow
2017-2021	Small group leader in the Ethics course for the first year medical and physician students at Baylor College of Medicine
2017-2020	Research Fellow/Graduate Student Training and Mentoring, Alex Vieth, Baylor College of Medicine
2017-2019	Research Fellow/Graduate Student Training and Mentoring, Danielle Callaway
2017	"Sex-specific differences in pulmonary angiogenesis in a model of neonatal pulmonary hyperoxic injury", The 29th Annual Graduate Student Symposium. Graduate School of Biomedical Sciences, Baylor College of Medicine
2017	"Research Presentation Workshop: How to give a dynamic scientific presentation?", Translational Biology and Molecular Medicine Student Seminar, Baylor College of Medicine Graduate School of Biomedical Sciences
2017	"Sex as a Crucial Biological Variable in Neonatal Hyperoxic Lung Injury: Implications for Bronchopulmonary Dysplasia", Texas Children's Feigin Center Research Seminar
2018	How to present a Journal Club: Department of Pediatrics; Fellows College
2018-2021	Evaluation of intervention trials: Part of the Evidence-based medicine curriculum for Neonatology fellows, Texas Children's Hospital
2018-2021	Research Fellow/Graduate Student Training and Mentoring, Lauren Swanson, Baylor College of Medicine
2018-2021	Research Fellow/Graduate Student Training and Mentoring, Brielle Hayward, Baylor College of Medicine
2018	Co-Lead for the redesign and restructuring of the Physiology Lecture Series for Neonatology Fellows, Baylor College of Medicine

2018	"How to present a journal club?", Fellows College lecture Series, Baylor College of Medicine
2018	"The role of PDA in Lung Injury. To close or not to close", Baylor Avoiding Lung Injury Symposium held at Baylor College of Medicine
2019-2020	Department of Pediatrics EBM Course Faculty for neonatal and critical care fellows, faculty and advanced practice practitioners at Baylor College of Medicine
2019-2021	Pulmonary vascular resistance and its modulation with lung expansion: Part of the physiology series of lectures in the section of Neonatology, Texas Children's Hospital
2019	Department of Pediatrics EBM Course Faculty for neonatal and critical care fellows, faculty, and advanced practice practitioners
2019-2021	Research Fellow/Graduate Student Training and Mentoring, Lindsay Fleig, Baylor College of Medicine
2019-2021	Research Fellow/Graduate Student Training and Mentoring, Faeq-Al-Mudares, Baylor College of Medicine
2019-2021	Research Fellow/Graduate Student Training and Mentoring, Gal Barbut, Baylor College of Medicine
2019-2020	Undergraduate Student Training and Mentoring, Sam Reddick, Baylor College of Medicine
2019-2020	Undergraduate Student Training and Mentoring, Candi Zhao, Baylor College of Medicine
2019-2020	Undergraduate Student Training and Mentoring, Akshaya Venkatesh, Baylor College of Medicine
2019	"What's new on the Neonatal respiratory Front?", Baylor Avoiding Lung Injury Symposium, Baylor College of Medicine
2019	"What's new on the Neonatal respiratory Front?", Baylor Avoiding Lung Injury Symposium held at Baylor College of Medicine
2020-2021	Research Fellow/Graduate Student Training and Mentoring, Jamie Gilley, Baylor College of Medicine
2020	Junior Faculty Grant Writing Mentoring: Specific Aims Workshop. Department of Pediatrics, Baylor College of Medicine.
2020	"Sex as a Crucial Biological Variable in Neonatal Hyperoxic Lung Injury: Implications for Bronchopulmonary Dysplasia", Texas Children's Feigin Center Research Seminar
2020	"Sex as a Biological Variable in Neonatal Hyperoxic Lung Injury", Children's Hospital of Philadelphia, Section of Neonatology Research Seminar
2021	Animal Models of Translational Research, Clinical Scientist Training Program, Baylor College of Medicine Graduate School, Houston, TX
2021	Department of Pediatrics K club for junior and early career physician-scientists and PhD researchers, Baylor College of Medicine
2021-Present	Mentoring, Graduate Student: Cailin Gonyea, Thesis Advisory

	Committee, University of Delaware
2021-Present	Bedside Instructor, medical students, residents and fellows while on rotation, Division of Neonatology, Children's Hospital of Philadelphia
2021-Present	"Blood flow and Metabolism and Pulmonary vascular Disease" For Neonatology Fellows
2022-Present	Neonatology Fellows Pulmonary Bedside Physiology, Lectures given on: Ventilation-Perfusion Relationships, Pulmonary Blood Flow, and pulmonary vascular diseases, Mechanics of Breathing, Control of Ventilation, Children's Hospital of Philadelphia
2022-Present	Cell and Molecular Biology (CAMB) Graduate Program Scientific Writing Course CAMB 6950, University of Pennsylvania
2022-Present	Mentoring: Danielle Callaway (Junior Faculty Mentee), K08 advisory Committee, Children's Hospital of Philadelphia
2022-Present	Mentoring: Neonatology Fellow: Benjamin Fensterheim, Children's Hospital of Philadelphia
2022-Present	Mentoring: Pediatrics Resident (Sara Wiener), Children's Hospital of Philadelphia
2022	"Environmental exposures during the perinatal period and the susceptibility of the developing lung", University of Pennsylvania, Center of Excellence in Environmental Toxicology
2022	"The biological basis of pathogenesis on CLD: Lessons that are patients teach us", CLD Education Series, Department of Pediatrics, Children's Hospital of Philadelphia
2022	"Sex as a biological variable in neonatal lung injury and repair", Lung Biology Institute, University of Pennsylvania
2023-Present	Lecturer, Center of Excellence in Environmental Toxicology Molecular Toxicology, University of Pennsylvania (PHRM 5900)
2023-Present	Mentoring: Graduate Student, Rose Albert (Pharmacology Graduate Group), Children's Hospital of Philadelphia
2023-Present	Mentoring: Undergraduate Student: Albertina Lee, Children's Hospital of Philadelphia
2023-Present	Cohort Lead, Society of Pediatric Research Lung Biology Research
2023-Present	Mentoring: Neonatology Fellow, Jonathan Knowlton, Children's Hospital of Philadelphia
2023-Present	Mentoring: Chintan Gandhi MD (Junior faculty), K08 Advisory Committee, Children's Hospital of Philadelphia
2023-2024	Mentoring: Graduate Student, PhD Advisory Committee, Cailin Gonyea, University of Delaware
2023-2024	Lecturer, Penn PROMOTES Virtual Lunch&Learn, University of Pennsylvania
2023	"Sex As a Crucial Biological Variable in Neonatal Lung Injury and Repair", Research Institute Seminar Series, Children's Hospital of Philadelphia
2023-present	T32 Faculty Trainer, Center for Excellence in Environmental

2024-Present	Toxicology, University of Pennsylvania
2024	Mentoring: Pulmonary Fellow, Sarah Colborg, T32 Research Mentor, Baylor College of Medicine
2025-Present	"Mechanisms of X-chromosome dependent sex differences in the developing pulmonary endothelium", University of Pennsylvania RAISE Symposium
2025-present	Mentoring: Keerthana Srinivasan MD-PhD candidate, Drexel University
2025-Present	Faculty Trainer, Pulmonary Immunology T32, University of Pennsylvania
2025-Present	CAMB 605 Journal Club for Graduate Students, University of Pennsylvania
2025-Present	CPM Graduate Program Prelim Committee, University of Pennsylvania
2025	CHOP Office of Faculty Development
2025	NIH Peer review updates presentation: panelist 11/18/2025
2025	CHOP GPS Connections
2025-Present	Mock Study Section and panel discussion 11/18/2025
2025-Present	Understanding NIH's Simplified Review Framework Office of Faculty Development (CHOP) and Grant Proposal Success (GPS) Program 11/2025
2026-Present	GPS Connections: A View Inside the Study Section Mock Study section Participant and Panelist 11/2025

Lectures by Invitation:

Feb, 2016	"Hyperoxic Lung Injury: New Biomarkers and Sex-Specific Differences", Department of Biomedical & Diagnostic Sciences, College of veterinary medicine, The University of Tennessee, Knoxville, TN
Oct, 2017	"PDA: a sign of trouble or a source of trouble?", Grand Rounds at Scott and White Hospital, Temple, TX
May, 2018	"Rise and Align! Integrating Multi-omics technologies. Integrating transcriptomics and epigenomics", American Thoracic Societies Annual International meeting, San Diego, CA
Jan, 2019	"Sex as a Vital Biological Variable in Neonatal Hyperoxic Lung Injury", Research Conference, Section of Neonatology, Medical University of South Carolina, Charleston, SC
Jan, 2019	"Sex as a biological variable in BPD", Pediatric Grand Rounds, The Pediatric Research Series, Department of Pediatrics, Penn State Health Children's Hospital, Hershey, PA
May, 2019	"Postgraduate Course: Optimizing Management of the Patient with Severe Bronchopulmonary Dysplasia. What's new in the

	management of severe BPD?", American Thoracic Societies Annual International meeting, Dallas, TX
Aug, 2019	"Sex as a Crucial Biological Variable in Neonatal Lung Injury and Repair", the Lung Gordon Conference, Lung development, Injury and Repair, Bates College, Lewistown, ME
Oct, 2019	"NIH Mock Grant Review", Feigin Center Research Symposium at Texas Children's Hospital, Houston, TX
Oct, 2019	"Molecular mechanisms behind sex-specific differences in Bronchopulmonary Dysplasia", Perinatal Research Center Grand Rounds, Nationwide Children's Hospital, Columbus, OH
Jan, 2020	"Mallinckrodt Neonatology-Pulmonary State-of-the-Art", Western Society of Pediatric Research (WSPR) meeting, Carmel, CA
Feb, 2020	"Lung Development, Surfactant Biology and Neonatal Pulmonology pot-pourri ", The 2020 NeoPREP meeting, Long Beach, CA
Apr, 2020	"Sex as a biological variable in neonatal hyperoxic lung injury", Experimental Biology Meeting, San Diego, CA
May, 2020	"So you think you can breathe; a primer on lung development and control of breathing, Organization of Neonatal-Perinatal Medicine Training Program Directors, Virtual
Jun, 2020	"Appraising evidence and having fun doing it", Organization of Neonatal-Perinatal Medicine Training Program Directors, Virtual
Jul, 2020	"Evidence-Based management of preterm PDA: relevance of Cath-based options", Grand Rounds at Women's Hospital of Texas, Houston, TX
Dec, 2020	"Why is sex crucial in determining outcomes in the NICU? An insight into the mechanisms", University of Wisconsin, Division of Neonatology Research Seminar, Madison, WI
Jul, 2021	"Importance of sex as a biological variable in neonatal lung disease" Case Western Reserve University, Division of Neonatology Research Seminar, Rainbow Babies and Children's Hospital, Cleveland, OH
Oct, 2021	"Why is the premature baby girl more resilient in the NICU?" The Jerry Elliot Memorial Lecture, Northeastern Fellows Conference on Perinatal Research, Chatham, MA
Jan, 2022	"Mechanisms behind sexual dimorphism in neonatal lung Injury", Western Conference of Perinatal Research, Indian Wells, CA
Jan, 2022	"Lung Development, Surfactant Biology and Neonatal Pulmonology potpourri", The 2022 NeoPREP meeting, Virtual
Feb, 2022	"Lung Development, Lung Physiology and Pathophysiology and Management of Pulmonary Diseases in the NICU" NeoCRAM, American Academy of Pediatrics, Virtual
Feb, 2022	"What makes a premature baby girl more resilient in the NICU?" SouthEastern Conference on Perinatal Research, Clearwater Beach, FL
Mar, 2022	"Clinical and Translational Research" Nemours Orlando, Department of Pediatrics, Faculty research and Publications

	Workshop, Orlando, FL
Apr, 2022	"Mechanisms Driving Sex Differences in Neonatal Lung Diseases", Experimental Biology International Meeting, Philadelphia, PA
Apr, 2022	"Effect of sex chromosomes versus hormones in neonatal lung injury"
Aug, 2022	Organization of Sex-specific Differences (OSSD), Virtual "Sex as a vital biological variable in the newborn lung injury and repair", Aspen Perinatal Biology Symposium, Aspen, CO
Sep, 2022	"Looking at sex as a biological variable at single-cell resolution in the neonatal lung", Perinatal Research Society Annual Meeting, Austin, TX
Sep, 2022	"Sex-based resilience and susceptibility in the NICU", Division of Neonatology, Department of Pediatrics, University of Colorado, Aurora, CA
Oct, 2022	"ONTPD/TECaN Virtual Café: NPM Basic and Translational Physician-Scientists", American Academy of Pediatrics, Anaheim, CA
Nov, 2022	"Mechanisms of sex-specific differences in neonatal lung injury and repair", Division of Neonatology Research Seminar, Columbia University, New York, NY
Dec, 2022	"The critical need to address sex as a biological variable in neonatal studies", Philadelphia Perinatal Society, Philadelphia, PA
Dec, 2022	"How important is sex as a biological variable in the neonatal lung?", Germany Center for lung Research (in German, Deutsche Zentrum für Lungenforschung, DZL), Virtual
Feb, 2023	"Communication skills to advance your Academic Career", Women In Neonatology Meeting, Scottsdale, AZ
Mar, 2023	"Lung Development and the Role of Sex as a Biological Variable", National Academies of Sciences, Engineering, and Medicine Meeting, Virtual
Apr, 2023	"The crucial role of sex as a biological variable in premature neonates: From bedside to bench", Neonatal Grand Rounds presentation, Tufts Medicine Pediatrics, Medford, MA
Apr, 2023	"K to R transition", Bridge to K program, Stanford University School of Medicine, Stanford, CA
May, 2023	"Spatial Transcriptomics of Human Congenital Diaphragmatic Hernia Lung Reveals Involvement of the Distal Lung Capillary Endothelium", Pediatric Academic Societies Meeting, Washington DC
Oct, 2023	"Sex as a Biological Variable in disease pathophysiology in the preterm neonate": Clinical and Biological Insights, Brigham and Women's Hospital Department of Pediatric Newborn Medicine Grand Rounds, Harvard Medical School, Cambridge, MA
Nov, 2023	"Heterogeneity In Sex-Specific Cellular Responses to Neonatal Lung Injury", University of California San Diego Lung Biology Seminar, San Diego, CA

Dec, 2023	"Does Sex as a Biological Variable Influence Pathophysiology and Treatment in the NICU?", Newborn Medicine Research Seminar for the Harvard Program in Neonatology, Harvard Medical School, Cambridge, MA
Dec, 2023	"The Crucial Role of Sex as a Biological Variable in the NICU: Do we "DO" enough?", Hot Topics in Neonatology, National Harbor, MD
Feb, 2024	"The Neonatal Lung Endothelium and Sex as a Biological Variable", 17th International Conference Neonatal & Childhood Pulmonary Vascular Disease, San Francisco, CA
Mar, 2024	"The Crucial Role of Sex as a Biological Variable in the NICU", American Academy of Pediatrics Neonatal and Perinatal Practice Strategies Meeting, Scottsdale, AZ
Mar, 2024	"When Physiology and Evidence Collide in the NICU", Workshop on Neonatal-Perinatal Practice Strategies, American Academy of Pediatrics, Scottsdale, AZ
Apr, 2024	"Bronchopulmonary Dysplasia in Growth Restricted Preterm Infants", Perinatal Society of Australia and New Zealand Annual Congress, Christchurch, New Zealand
Apr, 2024	"Mechanisms of Sex-Specific Differences in Neonatal Hyperoxic Lung Injury", Perinatal Society of Australia and New Zealand Annual Congress, Christchurch, New Zealand
May, 2024	"Single-cell RNA Sequencing", Post Graduate Course on Bronchopulmonary Dysplasia, Pediatric Academic Societies, Toronto, Canada
May, 2024	"Leveraging Multi-omics to advance precision medicine in Bronchopulmonary dysplasia", American Thoracic Society International Meeting, San Diego, CA
May, 2024	"Role of Sex in Pulmonary Disease Across the Lifespan", American Thoracic Society International Meeting, San Francisco, CA
May, 2024	"Dissecting the role of sex as a biological variable in intercellular communication in the neonatal lung", American Thoracic Society International Meeting, San Francisco, CA
Jun, 2024	"Sex as a crucial biological variable in the NICU: From Bedside to Bench", International Perinatal Collegium, Quebec City, Canada
Jun, 2024	"The crucial role of Sex as a Biological Variable in the NICU: Do we do enough?", Department of Pediatrics Grand Rounds, Oklahoma Children's Hospital, University of Oklahoma College of Medicine, Oklahoma City, OK
Aug, 2024	"My journey as a physician-scientist", Keynote Speaker, Pediatric Medical Student Research Forum, Orlando, FL
Aug, 2024	"Sex as a crucial biological variable in the NICU: From Bedside to Bench", University of Florida, Gainesville, FL
Sep, 2024	"Determinants of sex-specific susceptibility and resilience in the developing lung", EnLIGHT Seminar Series, University of Rochester, Rochester, NY

Oct, 2024	"Determinants of sex-specific susceptibility and resilience in the developing lung", 2024 Stanford BPD Research Symposium Stanford University, San Francisco, CA
Jan, 2025	"Role of Sex as a Biological Variable in Pathophysiology, Outcomes and Response to Therapy: Insights from the NICU", Pediatric Grand Rounds, Children's Hospital at Montefiore, New York, NY
Mar, 2025	"Sex as a biological variable: Role in outcomes related to preterm birth", Pediatric Grand Rounds, Boston University Medical Center, Boston, MA
Mar, 2025	"Mechanisms underlying sex-biased differences in outcomes related to preterm birth", UM Visiting Professor, Section of Neonatology, University of Miami, Miami, FL
Apr, 2025	"Together we stand, divided we fall - the impact of prematurity on cardiovascular and pulmonary health", Pediatric Academic Societies Meeting, Honolulu, HI
Apr, 2025	"Alveolar Macrophages as contributors to sex-specific differences in the Neonatal Lung", Pediatric Academic Societies Meeting, Honolulu, HI
May, 2025	"From Cradle to Chronic Disease: When Developmental Programming Promotes Disease Before you Know it", American Thoracic Meeting, San Diego, CA
May, 2025	"Tissue-resident Alveolar Macrophages as Drivers of Sex-specific Differences Across the Lifespan", American Thoracic Meeting, San Diego, CA
May, 2025	"Sex Chromosome Dosage as a Mechanism of Male Vulnerability in Neonatal Hyperoxic Lung Injury: Implications for Bronchopulmonary Dysplasia", American Thoracic Society Annual Meeting, San Diego, CA
Sep, 2025	"Endothelial Cells in Lung Development", American Thoracic Society Grover Conference, Denver, CO
Sep, 2025	"Strategic Plan for Women in Neonatology: The path forward", American Academy of Pediatrics NCE National Conference, Denver, CO
Dec, 2025	"Harnessing macrophages for therapy in the developing lung" 7th Annual Immune Modulation & Engineering Symposium (IMES) Drexel University, Philadelphia, PA

Organizing Roles in Scientific Meetings:

2014	Member, Planning Committee, Workshop on Perinatal Practice Strategies Meeting Scottsdale, AZ
2015	Member, Planning Committee, Workshop on Perinatal Practice Strategies Meeting Scottsdale, AZ
2016	Member, Planning Committee, Workshop on Perinatal Practice Strategies Meeting

	Scottsdale, AZ
2017	Member, Planning Committee, Workshop on Perinatal Practice Strategies Meeting Scottsdale, AZ
2017	Chair, Planning Committee, Workshop on Perinatal Practice Strategies Meeting Scottsdale, AZ
2018	Chair, Planning Committee, Workshop on Perinatal Practice Strategies Meeting Scottsdale, AZ
2018	Poster Discussion & Session Moderator, BPD and other Congenital Disease Session, American Thoracic Society Annual Meeting San Diego, CA
2018	Platform Session Moderator, Neonatal Lung: Maturation and Protection Session at the Pediatric Academic Societies Meeting Toronto, Canada
2018	Moderator, Platform Session, Pediatric Academic Societies Meeting Toronto, Canada
2019	Chair, Planning Committee, Workshop on Perinatal Practice Strategies Meeting Scottsdale, AZ
2019	Session Moderator, Neonatology: Molecular Biology of the Developing Lung Session at the Pediatric Academic Societies Meeting Baltimore, MD
2020	Chair, Planning Committee, Workshop on Perinatal Practice Strategies Meeting Scottsdale, AZ (cancelled due to COVID-19)
2021	Moderator, Poster session, Pediatric Academic Societies Meeting Virtual
2021	Chair, Planning Committee, Workshop on Perinatal Practice Strategies Meeting Virtual
2021	Chair, Moderator, and Presenter, American Thoracic Society Scientific Symposia Virtual
2022	Chair, Planning Committee, Workshop on Perinatal Practice Strategies Meeting Scottsdale, AZ
2022	Moderator, Respiratory cell and Molecular Biology Journal Club, American Thoracic Society Meeting Virtual
2022	Moderator, Neonatal Pulmonology-1 Oral Abstract Session, Pediatric Academic Societies Denver, CO
2022	Moderator, Annual Bronchopulmonary Dysplasia Meeting,

	Children's Hospital of Philadelphia Philadelphia, PA
2022	Member, Grant writing 101 Program, Society of Pediatric Research Meeting Virtual
2023	Moderator, Lung Development, Injury and Repair, Gordon Research Conference Virtual
2023	Member, Steering Committee and Moderator, Women In Neonatology Annual Meeting Washington DC
2023	Moderator, Resident case Competition, Eastern Society of Pediatric Research Meeting Philadelphia, PA
2023	Member, Planning Committee and Moderator, Bronchopulmonary Dysplasia Annual Meeting, Children's Hospital of Philadelphia Philadelphia, PA
2023	Moderator, Poster Session, Eastern Society of Pediatric Research Meeting Philadelphia, PA
2023	Moderator, Developmental Biology/Cardiac & Pulmonary Development, Pediatric Academic Societies Meeting Washington DC
2023	Moderator, Neonatology/Pulmonary, Eastern Society of Pediatric Research Meeting Philadelphia, PA
2023	Member, Planning Committee, Eastern Society of Pediatric Research Meeting Philadelphia, PA
2023	Moderator, Neonatology General 2: NICU Outcomes, Pediatric Academic Societies Meeting Washington DC
2023	Member, Planning Committee, Neonatal and Developing Lung Interest Group, American Thoracic Society Washington DC
2023	Chair, Planning Committee, Perinatal Practice Strategies Meeting Scottsdale, AZ
Mar, 2024	Member, Planning Committee and Moderator, Bronchopulmonary Dysplasia Meeting, Children's Hospital of Philadelphia Philadelphia, PA
Apr, 2024	Member, Steering Committee and Moderator, Women In Neonatology Annual Meeting Scottsdale, AZ
May, 2024	Moderator, Neonatal Pulmonology, Clinical Science 2: Predicting the Future Pediatric Academic Societies Meeting

May, 2024	Toronto, Canada Moderator, Academic and Research Skills Basic Science Critical Care Developmental Biology Genomics/Epigenomics, Hematology/Oncology Infectious Diseases Neonatology, Pediatric Academic Societies Meeting
May, 2024	Toronto, Canada Moderator, Pulmonology Session, Pediatric Academic Societies Meeting
May, 2024	Toronto, Canada Chair, Neonatal and Developing Lung Interest Group, American Thoracic Society Meeting
Feb, 2025	San Diego, CA Member, Steering Committee and Moderator, Women In Neonatology Annual Meeting
Mar, 2025	Scottsdale, AZ Member, Planning Committee and Moderator, Bronchopulmonary Dysplasia Meeting, Children's Hospital of Philadelphia
Apr, 2025	Philadelphia, PA Moderator, Developmental Biology/Cardiac & Pulmonary Development, Pediatric Academic Societies Meeting
Apr, 2025	Honolulu, HI Moderator, Neonatal Pulmonology - Basic/Translational Science 2, Pediatric Academic Societies Meeting
May, 2025	Honolulu, HI Chair and Organizer, "The Annual Neonatal and Developing Lung Interest Group Meeting", American Thoracic Society Conference
May, 2025	San Diego, CA Moderator, Cellular Mechanisms And Immune Pathways Underlying Pediatric Pulmonary Diseases, American Thoracic Society Meeting
Sep, 2025	San Diego, CA Chair, Women In Neonatology Meeting, American Academy of Pediatrics NCE Meeting
	Denver, CO

Grants:Pending:

Biological Sex and the Innate Immune Niche in the Neonatal Lung , NHLBI, 7/2026-6/2031 (Krithika Lingappan, PI), \$499,940/annual direct costs, 30% effort (Role in grant: PI, Under review.)

Biological Sex as a Modifier of Maternal Environmental Exposure Effects on the Offspring, NHLBI, 7/2026-6/2031 (Krithika Lingappan, PI), \$890,017/annual direct costs, 25% effort (Role in grant: PI, Under review.)

Macrophage-Based Cellular Therapeutics for Neonatal Lung Injury, NHLBI,

7/2026-6/2031 (Krithika Lingappan, PI), \$857,860/annual direct costs, 30% effort (Role in grant: PI, Under review.)

Probing sex as a biological variable in the developing lung, NHLBI, 4/2026-3/2031 (Krithika Lingappan, PI), \$499,363/annual direct costs, 30% effort (Role in grant: PI, Under review.)

Current:

Pilot trial comparing transpyloric to gastric feeding in very preterm infants with bronchopulmonary dysplasia, NICHD R21, 1R21HD113897-01A1, 9/2024-8/2026 (Erik Jensen, PI), \$386,743/annual direct costs, 2% effort (Role in grant: Co-PI)

Multidimensional phenotype classification in grade 3 BPD, NHLBI, R01HL168066, 4/2023-3/2028 (Krithika Lingappan, PI), \$2,353,706/annual direct costs, 15% effort (Role in grant: PI)

Polycyclic Aromatic Hydrocarbons: Ultrasensitive Detection, Early Life Exposures-Clinical Outcomes (Preterm Births, Chronic Lung Disease, and Neurocognitive Deficits), Prevention and Remediation, NIEHS, 5P42ES027725-03, 7/2022-1/2030 (Bhagavatula Moorthy, PI), \$49,978/annual direct costs, 8% effort (Role in grant: Co-I)

Past:

X-chromosome mediated mechanisms mediating sex-specific differences in Neonatal Lung Injury, RAising the Investment in Sex and gender Evidence (RAISE) Pilot Grant Program, 5/2024-4/2024 (Krithika Lingappan, PI), \$20,000/annual direct costs (Role in grant: PI, No salary support.)

Sex as a biological variable in Bronchopulmonary Dysplasia: Role of the Notch Pathway (R21), NIH/NICHD, R21HD100862, 6/2020-5/2023 (Krithika Lingappan, PI), \$150,000/annual direct costs, 10% effort (Role in grant: PI)

Leveraging multi-omics and advanced mouse models to delineate mechanisms underlying sex-specific differences in recovery and repair after neonatal hyperoxia exposure in the developing lung (NCE), NIH/NHLBI, R01HL146395, 5/2020-4/2024 (Krithika Lingappan, PI), \$240,000/annual direct costs, 10% effort (Role in grant: PI)

Role of cytochrome p450 (Cyp)1a/1b1 enzymes in the potentiation of neonatal lung injury, NIEHS, 2/2020-1/2025 (Bhagavatula Moorthy, PI), \$247,292/annual direct costs, 5% effort (Role in grant: CO-I)

Mechanisms of sex differences in neonatal pulmonary oxygen toxicity (NCE), NIH/NHLBI, R01HL144775, 7/2019-6/2024 (Krithika Lingappan, PI), \$355,342/annual direct costs, 10% effort (Role in grant: PI)

Supplement to: Mechanisms of sex specific differences in neonatal hyperoxic lung injury,

NIH/NHLBI, 8/2018-4/2019 (Krithika Lingappan, PI), \$65,000/annual direct costs (Role in grant: PI)

Sex-Specific Differences in neonatal hyperoxic lung injury: Role of the NF-KAPPA B pathway (R03), NIH/NHLBI, R03HL141572, 5/2018-4/2020 (Krithika Lingappan, PI), \$50,000/annual direct costs, 8% effort (Role in grant: PI)

Role of Growth Differentiation Factor 15 (GDF15) in alveolarization and pulmonary angiogenesis, American Lung Association, 7/2016-12/2018 (Krithika Lingappan, PI), \$40,000/annual direct costs, 5% effort (Role in grant: PI)

Mechanisms of sex specific differences in neonatal hyperoxic lung injury (K08), NIH/NHLBI, K08HL127103, 4/2015-4/2020 (Krithika Lingappan, PI), \$114,305/annual direct costs, 75% effort (Role in grant: PI)

Bibliography:

Research Publications, peer reviewed (print or other media):

1. Lingappan K, Jiang W, Wang L, Couroucli XI, Barrios R, Moorthy B.: Sex-specific differences in hyperoxic lung injury in mice: implications for acute and chronic lung disease in humans. Toxicol Appl Pharmacol 272(2): 281-90, Oct 2013. PMID: PMC4201582
2. Lingappan K, Srinivasan C, Jiang W, Wang L, Couroucli XI, Moorthy B.: Analysis of the transcriptome in hyperoxic lung injury and sex-specific alterations in gene expression. PLoS One 9(7): e101581, Jul 2014 Notes: DOI: 10.1371/journal.pone.0101581 PMID: PMC4086819
3. Tiwari KK, Chu C, Couroucli X, Moorthy B, Lingappan K.: Differential concentration-specific effects of caffeine on cell viability, oxidative stress, and cell cycle in pulmonary oxygen toxicity in vitro. Biochem Biophys Res Commun 450(4): 1345-50, Aug 2014. PMID: PMC4216694
4. Lingappan K, Jiang W, Wang L, Wang G, Couroucli XI, Shivanna B, Welty SE, Barrios R, Khan MF, Nebert DW, Roberts LJ, Moorthy B.: Mice deficient in the gene for cytochrome P450 (CYP)1A1 are more susceptible than wild-type to hyperoxic lung injury: evidence for protective role of CYP1A1 against oxidative stress. Toxicol Sci 141(1): 68-77, Sep 2014. PMID: PMC4200035
5. Thakur VS, Liang YW, Lingappan K, Jiang W, Wang L, Barrios R, Zhou G, Guntupalli B, Shivanna B, Maturu P, Welty SE, Moorthy B, Couroucli XI.: Increased susceptibility to hyperoxic lung injury and alveolar simplification in newborn rats by prenatal administration of benzo[a]pyrene. Toxicol Lett 230(2): 322-32, Oct 2014. PMID: PMC4169345
6. Lingappan K, Jiang W, Wang L, Couroucli XI, Moorthy B.: Sex-specific differences in

hyperoxic lung injury in mice: role of cytochrome P450 (CYP)1A. Toxicology 331: 14-23, May 2015. PMCID: PMC4406849

7. Wang L, Lingappan K, Jiang W, Couroucli XI, Welty SE, Shivanna B, Barrios R, Wang G, Firoze Khan M, Gonzalez FJ, Jackson Roberts L, Moorthy B.: Disruption of cytochrome P4501A2 in mice leads to increased susceptibility to hyperoxic lung injury. Free Radic Biol Med 82: 147-59, May 2015. PMCID: PMC4418801
8. Tiwari KK, Moorthy B, Lingappan K.: Role of GDF15 (growth and differentiation factor 15) in pulmonary oxygen toxicity. Toxicol In Vitro 29(7): 1369-76, Oct 2015. PMCID: PMC4553106
9. Dinu D, Chu C, Veith A, Lingappan K, Couroucli X, Jefcoate CR, Sheibani N, Moorthy B.: Mechanistic role of cytochrome P450 (CYP)1B1 in oxygen-mediated toxicity in pulmonary cells: A novel target for prevention of hyperoxic lung injury. Biochem Biophys Res Commun 476(4): 346-351, Aug 2016. PMCID: PMC4935552
10. Lingappan K, Jiang W, Wang L, Moorthy B.: Sex-specific differences in neonatal hyperoxic lung injury. Am J Physiol Lung Cell Mol Physiol 311(2): L481-93, Aug 2016. PMCID: PMC5504425
11. Lingappan K, Kaiser JR, Srinivasan C, Gunn AJ.: Relationship between PCO₂ and unfavorable outcome in infants with moderate-to-severe hypoxic ischemic encephalopathy. Pediatr Res 80(2): 204-8, Aug 2016.
12. Lingappan K, Maity S, Jiang W, Wang L, Couroucli X, Veith A, Zhou G, Coarfa C, Moorthy B: Role of Cytochrome P450 (CYP)1A in Hyperoxic Lung Injury: Analysis of the Transcriptome and Proteome Sci Rep. 7(1): 642, Apr 2017 Notes: DOI: 10.1038/s41598-017-00516-x.
13. Zhang Y, Lingappan K.: Differential sex-specific effects of oxygen toxicity in human umbilical vein endothelial cells. Biochem Biophys Res Commun 486(2): 431-437, Apr 2017. PMCID: PMC5423444
14. Maturu P, Wei-Liang Y, Jiang W, Wang L, Lingappan K, Barrios R, Liang Y, Moorthy B, Couroucli XI.: Newborn Mice Lacking the Gene for Cyp1a1 Are More Susceptible to Oxygen-Mediated Lung Injury, and Are Rescued by Postnatal β -Naphthoflavone Administration: Implications for Bronchopulmonary Dysplasia in Premature Infants. Toxicol Sci 157(1): 260-271, May 2017. PMCID: PMC5837454
15. Parmekar S, Arnold JL, Anselmo C, Pammi M, Hagan J, Fernandes CJ, Lingappan K.: Mind the gap: can videolaryngoscopy bridge the competency gap in neonatal endotracheal intubation among pediatric trainees? a randomized controlled study.

J Perinatol 37(8): 979-983, Aug 2017.

16. Zhang Y, Jiang W, Wang L, Lingappan K.: Sex-specific differences in the modulation of Growth Differentiation Factor 15 (GDF15) by hyperoxia in vivo and in vitro: Role of Hif-1 α Toxicol Appl Pharmacol 332: 8-14, Oct 2017. PMID: PMC5592142
17. Coarfa C, Zhang Y, Maity S, Perera DN, Jiang W, Wang L, Couroucli X, Moorthy B, Lingappan K.: Sexual dimorphism of the pulmonary transcriptome in neonatal hyperoxic lung injury: identification of angiogenesis as a key pathway. Am J Physiol Lung Cell Mol Physiol 313(6): L991-L1005, Dec 2017. PMID: PMC5814706
18. Pammi M, Lingappan K, Carbajal MM, Suresh GK.: Focused Evidence-Based Medicine Curriculum for Trainees in Neonatal-Perinatal Medicine. MedEdPORTAL 13: 10664, Dec 2017 Notes: DOI:10.15766/mep_2374-8265.10664. PMID: PMC6338140
19. Jiang W, Maturu P, Liang YW, Wang L, Lingappan K, Couroucli X.: Hyperoxia-mediated transcriptional activation of cytochrome P4501A1 (CYP1A1) and decreased susceptibility to oxygen-mediated lung injury in newborn mice. Biochem Biophys Res Commun 495(1): 408-413, Jan 2018. PMID: PMC5743196
20. Lingappan K, Maturu P, Liang YW, Jiang W, Wang L, Moorthy B, Couroucli XI.: β -Naphthoflavone treatment attenuates neonatal hyperoxic lung injury in wild type and Cyp1a2-knockout mice. Toxicol Appl Pharmacol 339: 133-142, Jan 2018 Notes: DOI:10.1016/j.taap.2017.11.017. PMID: PMC5758404
21. Veith AC, Bou Aram B, Jiang W, Wang L, Zhou G, Jefcoate CR, Couroucli XI, Lingappan K, Moorthy B.: Mice Lacking the Cytochrome P450 1B1 Gene Are Less Susceptible to Hyperoxic Lung Injury Than Wild Type. Toxicol Sci 165(2): 462-474, Oct 2018. PMID: PMC6154276
22. Balaji S, Dong X, Li H, Zhang Y, Steen E, Lingappan K.: Sex-specific differences in primary neonatal murine lung fibroblasts exposed to hyperoxia in vitro: implications for bronchopulmonary dysplasia. Physiol Genomics 50(11): 940-946, Nov 2018. PMID: PMC6293119
23. Zhang Y, Dong X, Shirazi J, Gleghorn JP, Lingappan K.: Pulmonary endothelial cells exhibit sexual dimorphism in their response to hyperoxia. Am J Physiol Heart Circ Physiol 315(5): H1287-H1292, Nov 2018. PMID: PMC6415740
24. Zhang Y, Coarfa C, Dong X, Jiang W, Hayward-Piatkovskyi B, Gleghorn JP, Lingappan K.: MicroRNA-30a as a candidate underlying sex-specific differences in neonatal hyperoxic lung injury: implications for BPD. Am J Physiol Lung Cell

Mol Physiol 316(1): L144-L156, Jan 2019. PMCID: PMC6383497

25. Suter MA, Aagaard KM, Coarfa C, Robertson M, Zhou G, Jackson BP, Thompson D, Putluri V, Putluri N, Hagan J, Wang L, Jiang W, Lingappan K, Moorthy B.: Association between elevated placental polycyclic aromatic hydrocarbons (PAHs) and PAH-DNA adducts from Superfund sites in Harris County, and increased risk of preterm birth (PTB). Biochem Biophys Res Commun 516(2): 344-349, Aug 2019. PMCID: PMC6637943
26. Althouse MH, Stewart C, Jiang W, Moorthy B, Lingappan K.: Impact of Early Life Antibiotic Exposure and Neonatal Hyperoxia on the Murine Microbiome and Lung Injury. Sci Rep 9(1): 14992, Oct 2019 Notes: DOI:10.1038/s41598-019-51506-0. PMCID: PMC6802223
27. Zhang Y, Dong X, Lingappan K.: Role of HIF-1 α -miR30a-Snai1 Axis in Neonatal Hyperoxic Lung Injury. Oxid Med Cell Longev 2019: 8327486, Oct 2019 Notes: DOI: 10.1155/2019/8327486. PMCID: PMC6854945
28. Coarfa C, Grimm SL, Katz T, Zhang Y, Jangid RK, Walker CL, Moorthy B, Lingappan K: Epigenetic response to hyperoxia in the neonatal lung is sexually dimorphic. Redox Biol 37: 101718, Oct 2020 Notes: 10.1016/j.redox.2020.101718.
29. Callaway DA, Jiang W, Wang L, Lingappan K, Moorthy B: Oxygen-mediated lung injury in mice lacking the gene for NRF2: Rescue with the cytochrome P4501A-inducer, beta-naphthoflavone (BNF), and differential sex-specific effects. Free Radic Biol Med 160: 208-218, Nov 2020.
30. Jain PN, Robertson M, Lasa JJ, Shekerdemian L, Guffey D, Zhang Y, Lingappan K, Checchia P, Coarfa C: Altered metabolic and inflammatory transcriptomics after cardiac surgery in neonates with congenital heart disease. Sci Rep. 11(1): 4965, Mar 2021 Notes: 10.1038/s41598-021-83882-x. PMCID: PMC7925649
31. Grimm SL, Dong X, Zhang Y, Carisey AF, Arnold AP, Moorthy B, Coarfa C, Lingappan K.: Effect of sex chromosomes versus hormones in neonatal lung injury. JCI Insight. 6(13): e146863, July 2021. PMCID: PMC8410054
32. Koo J, Lingappan K, Song C.: National professional society augments career development and leadership amongst neonatal fellows and early career neonatologists. J Perinatol. 42(4): 546-549, July 2021.
33. Burke R, Chu C, Zhou GD, Putluri V, Putluri N, Stading RE, Couroucli X, Lingappan K, Moorthy B.: Role of Human NADPH Quinone Oxidoreductase (NQO1) in Oxygen-Mediated Cellular Injury and Oxidative DNA Damage in Human Pulmonary Cells. Oxid Med Cell Longev. 2021(15): 5544600, Oct 2021. PMCID: PMC8536466

34. Chumpitazi CE, Camp EA, Cuevas-Guaman M, Doughty C, Kancherla B, Lingappan K, Moran NE, Murray KO, Perez O, Shekerdemian LS, O'Connor TM.: Vision 2020: How Caregiving and Work Productivity Outlook Shifted for Academic Pediatric Faculty. J Womens Health (Larchmt) 31(5): 631-39, Feb 2022.
35. Machut KZ, Kushnir A, Oji-Mmuo CN, Kataria-Hale J, Lingappan K, Kwon S, Dammann CEL.: Effect of Coronavirus Disease-2019 on the Workload of Neonatologists. J Pediatr 242: 145-151, March 2022. PMCID: PMC8572527
36. Almudares F, Hagan J, Chen X, Devaraj S, Moorthy B, Lingappan K.: Growth and differentiation factor 15 (GDF15) levels predict adverse respiratory outcomes in premature neonates. Pediatr Pulmonol 58(1): 271-78, January 2023.
37. Cantu A, Gutierrez MC, Dong X, Leek C, Sajti E, Lingappan K.: Remarkable sex-specific differences at single-cell resolution in neonatal hyperoxic lung injury. Am J Physiol Lung Cell Mol Physiol 324(1): L5-L31, Jan 2023. PMCID: PMC9799156
38. Hayward-Piatkovskyi B, Gonyea CR, Pyle SC, Lingappan K, Gleghorn JP.: Sex-related external factors influence pulmonary vascular angiogenesis in a sex-dependent manner. Am J Physiol Heart Circ Physiol 324(1): H26-H32, Jan 2023.
39. Grimm SL, Stading RE, Robertson MJ, Gandhi T, Fu C, Jiang W, Xia G, Lingappan K, Coarfa C, Moorthy B.: Loss of cytochrome P450 (CYP)1B1 mitigates hyperoxia response in adult mouse lung by reprogramming metabolism and translation. Redox Biol 64: 102790, Jun 2023 Notes: DOI:10.1016/j.redox.2023.102790.
40. Callaway DA, Wang Y, Lingappan K, Pogoriler JE, Laje P, Nilan K, Kirpalani H, Zhang H.: Lung biopsy in infants with severe bronchopulmonary dysplasia. Pediatr Pulmonol 58(7): 2068-75, July 2023.
41. Cantu A, Cantu Gutierrez M, Zhang Y, Dong X, Lingappan K.: Endothelial to mesenchymal transition in neonatal hyperoxic lung injury: role of sex as a biological variable. Physiol Genomics 55(8): 345-354, Aug 2023.
42. Grimm SL, Reddick S, Dong X, Leek C, Wang AX, Gutierrez MC, Hartig SM, Moorthy B, Coarfa C, Lingappan K.: Loss of microRNA-30a and sex-specific effects on the neonatal hyperoxic lung injury. Biol Sex Differ 14(1): 50, Aug 2023. PMCID: PMC10408139
43. Lingappan K, Olutoye OO 2nd, Cantu A, Cantu Gutierrez ME, Cortes-Santiago N, Hammond JD, Gilley J, Quintero JR, Li H, Polverino F, Gleghorn JP, Keswani SG.: Molecular insights using spatial transcriptomics of the distal lung in

Congenital Diaphragmatic Hernia. Am J Physiol Lung Cell Mol Physiol 325(4): L477-L486, Aug 2023. PMID: PMC10639013

44. Al-Mudares F, Cantu Gutierrez M, Cantu A, Jiang W, Wang L, Dong X, Moorthy B, Sajti E, Lingappan K.: Loss of growth differentiation factor 15 exacerbates lung injury in neonatal mice. Am J Physiol Lung Cell Mol Physiol 325(3): L314-L326, Sep 2023.
45. Hammond JD 2nd, Kielt MJ, Conroy S, Lingappan K, Austin ED, Eldredge LC, Truog WE, Abman SH, Nelin LD, Guaman MC.: Exploring the Association of Male Sex With Adverse Outcomes in Severe Bronchopulmonary Dysplasia: A Retrospective, Multicenter Cohort Study. Chest 165(3): 610-620, October 2023.
46. Cantu A, Gutierrez MC, Dong X, Leek C, Anguera M, Lingappan K.: Modulation of recovery from neonatal hyperoxic lung injury by sex as a biological variable. Redox Biology 68(102933), December 2023 Notes: DOI:10.1016/j.redox.2023.102933.
47. Stading R, Swanson L, Xia G, Jiang W, Wang L, Couroucli X, Lingappan K, Moorthy B.: Prenatal exposure to polycyclic aromatic hydrocarbons (PAHs) augments neonatal hyperoxic lung injury: Role of cytochrome P450 (CYP)1A1, 1A2, and 1B1. Free Radic Biol Med 211: 35-46, December 2023.
48. Leek C, Cantu A, Sonti S, Gutierrez MC, Eldredge L, Sajti E, Xu HN, Lingappan K.: Role of sex as a biological variable in neonatal alveolar macrophages. Redox Biol 75(3): 103296, Aug 2024.
49. Avitabile CM, Zhang X, Ampah S, Wang Y, Ash D, Nilan K, Tingo JE, Frank DB, Jensen EA, Lingappan K, Gibbs KA.: Elevated pulmonary capillary wedge pressure, higher blood pressure, and lower cardiac index in infants with bronchopulmonary dysplasia. Int J Cardiol 411(1): 132246, Sep 2024.
50. Rojas-Quintero J, Faner R, Chiu CY, Kue JT, Zhang Y, Sanz Rubio D, Colborg AS, Jakwerth CA, Schmidt-Weber CB, Maitland-van der Zee AH, Abdel-Aziz MI, Pilon AL, Owen CA, Plosa EJ, Kinney GL, Mc-Grath Morrow S, Gazzaneo MG, Cortes Santiago N, Lingappan K, Ledford J, Spence J, Sucre JM, Sauler M, Wu TD, Agusti A, Wheelock A, Illi S, von Mutius E, Bowler RP, Celli B, Abman SH, Wells JM, Polverino F; ALLIANCE study group, ECLIPSE and COPDGene investigators.: Maternal Smoking and CC-16: Implications for Lung Development and COPD Across the Lifespan. Am J Respir Crit Care Med Page: doi: 10.1164, Oct 2025 Notes: epub ahead of print.

Research Publications, peer-reviewed reviews:

1. Singh M, Lingappan K.: Whooping cough: the current scene. Chest 130(5): 1547-53, November 2006.

2. Lingappan K, Arunachalam A, Pammi M.: Lactoferrin and the newborn: current perspectives. Expert Rev Anti Infect Ther 11(7): 695-707, Jul 2013.
3. Lingappan K, Arnold JL, Shaw TL, Fernandes CJ, Pammi M. : Videolaryngoscopy versus direct laryngoscopy for tracheal intubation in neonates. Cochrane Database Syst Rev. 2(1): CD009975, Feb 2015.
4. Lingappan K, Moorthy B.: Can maternal DHA supplementation offer long-term protection against neonatal hyperoxic lung injury? Am J Physiol Lung Cell Mol Physiol 309(12): L1383-6, Dec 2015. PMCID: PMC4683313
5. Lingappan K.: NF- κ B in Oxidative Stress. Curr Opin Toxicol 7(4): 81-86, Feb 2018. PMCID: PMC5978768
6. Lingappan K, Arnold JL, Fernandes CJ, Pammi M.: Videolaryngoscopy versus direct laryngoscopy for tracheal intubation in neonates. Update #2. Cochrane Database Syst Rev. 6(6): CD009975, June 2018.
7. Stading R, Chu C, Couroucli X, Lingappan K, Moorthy B: Molecular role of cytochrome P450A enzymes in oxidative stress. Curr Opin Toxicol 20-21: 77-84, Jun 2020 Notes: 10.1016/j.cotox.2020.07.001.
8. Lingappan K, Karmouty-Quintana H, Davies J, Akkanti B, Harting MT.: Understanding the age divide in COVID-19: why are children overwhelmingly spared? Am J Physiol Lung Cell Mol Physiol 319(9): L39-L44, July 2020.
9. Al-Mudares F, Reddick S, Ren J, Venkatesh A, Zhao C, Lingappan K.: Role of Growth Differentiation Factor 15 in Lung Disease and Senescence: Potential Role Across the Lifespan. Front Med (Lausanne) 7(4): doi: 10.3389/fmed.2020.594137. Dec 2020. PMCID: PMC7744305
10. Stading R, Couroucli X, Lingappan K, Moorthy B.: The role of cytochrome P450 (CYP) enzymes in hyperoxic lung injury. Expert Opin Drug Metab Toxicol. 17(2): 171-178, Feb 2021.
11. Olutoye Ii OO, Short WD, Gilley J, Hammond Ii JD, Belfort MA, Lee TC, King A, Espinoza J, Joyeux L, Lingappan K, Gleghorn JP, Keswani SG.: The Cellular and Molecular Effects of Fetoscopic Endoluminal Tracheal Occlusion in Congenital Diaphragmatic Hernia. Frontiers in Pediatrics 5(10): 925106, July 2022.
12. Lingappan K, Alur P, Eichenwald E.: The need to address sex as a biological variable in neonatal clinical studies. J Pediatr 255(1): 17-21, April 2023.
13. Lingappan K, Neveln N, Arnold JL, Fernandes CJ, Pammi M.: Videolaryngoscopy versus direct laryngoscopy for tracheal intubation in neonates: Update #3. Cochrane Database Syst Rev 5(5): CD009975, May 2023. PMCID:

PMC10177149

14. Ryan RM, Mukherjee D, Ford S, Lingappan K.: Pharmacotherapy of BPD: Current status & future perspectives. Semin Perinatol 47(6): 151819, Oct 2023.
15. Albert R, Lee A, Lingappan K.: Response to Therapeutic Interventions in the NICU: Role of Sex as a Biological Variable. Neoreviews 24(12): e797-e805, Dec 2023.
16. Machut KZ, Owens L, Gadek L, Kataria-Hale J, Lingappan K, Savich R, Kushnir A, Hubbard D, Dammann CEL: Perspectives and needs of neonatology division directors regarding gender equity. Journal of Perinatology 45(5): 689-694, Oct 2024.
17. Lingappan K, Sundar IK, Prakash YS, Redente EF, Sin DD, Han MK, Lahm T, Krymskaya VP, Kotton DN, Kulkarni HS, Jain R, Königshoff M, Eghbali M, Anguera M, Arnold A, Silveyra P, DeMeo DL.: Addressing Sex as a Biological Variable in Preclinical Models of Lung Disease: An Official American Thoracic Society Research Statement. Am J Respir Crit Care Med 211(8): 1346-1368, Aug 2025. PMCID: PMC12369866
18. Lingappan K.: Biological sex and transfusion practices in the NICU. Pediatr Res Page: doi: 10.1038, Sep 2025 Notes: epub ahead of print.

Research Publications, non-peer reviewed:

1. Sonti S, Cantu A, Guttierrez MC, Leek C, Pelton P, Jensen EA, Lingappan K.: Patient-derived airway organoids from BAL fluid model injury and therapy responses in neonatal bronchopulmonary dysplasia. bioRxiv Page: doi: 10.1101/2025.08.11.669535, Aug 2025 Notes: epub. PMCID: PMC12363883
2. Fensterheim BA, McKeague M, Mathew D, Shwetank, Pattekar A, Nasta S, Kee M, Clendenin C, Martinez Z, Diorio C, Greenplate AR, Lingappan K, Wherry EJ.: Perturbation of the Preterm Human Immune System in Early Life. medRxiv Page: doi: 10.1101/2025.09.03.25334934, Sep 2025 Notes: epub. PMCID: PMC12424866

Abstracts:

1. Coarfa C, Lingappan K: Sex-Specific Differences in the Transcriptome and Epigenome in Neonatal Hyperoxic Lung Injury: Implications for Bronchopulmonary Dysplasia. Poster, American Thoracic Societies Meeting, Washington DC 2017.
2. Lingappan K, Couroucli XI, Jiang W, Moorthy B: Adverse Impact of Prenatal PAH exposure on the Developing Lung in a Model of Postnatal Hyperoxic Lung Injury. Poster, American Thoracic Societies Meeting, Washington DC 2017.
3. Lingappan K, Maity S, Coarfa C, Moorthy B: Sex-biased differences in expression of

miRNAs in a murine model of neonatal hyperoxic lung injury: Implications for bronchopulmonary dysplasia (BPD). Poster, Pediatric Academic Societies Meeting, San Francisco, CA 2017.

4. Moorthy B, Wang L, Couroucli XI, Lingappan K, Jiang W: Disruption of mice lacking the NAP(P)H quinone reductase (NQO1) or NQO2 gene leads to increased susceptibility to hyperoxic lung Injury In vivo: Protection by beta-naphthoflavone (BNF) administration. Poster, Pediatric Academic Societies Meeting, San Francisco, CA 2017.
5. Pammi M, Lingappan K, Carbajal M, Suresh G: Implementation and Appraisal of an Evidence-based Medicine Curriculum for Trainees in Neonatal-Perinatal Medicine. Poster, Pediatric Academic Societies Meeting, San Francisco, CA 2017.
6. Zhang Y, Lingappan K: Differential Sex-Specific Effects Of Oxygen Toxicity In Human Umbilical Vein Endothelial Cells: Effects On Angiogenesis. Poster, Southern Society of Pediatric Research, New Orleans, LA 2017.
7. Zhang Y, Moorthy B, Lingappan K: Sex-specific Differences in the modulation of Growth Differentiation Factor 15 (GDF15) by hyperoxia in vivo and in vitro: Role of HIF-1 α Poster, Pediatric Academic Societies Meeting, San Francisco, CA 2017.
8. Althouse M, Balderas M, Venkatachalam A, Ford S, Lingappan K, Luna RA, Hair AB: Preterm Infants with Bronchopulmonary Dysplasia Develop a Less Diverse Intestinal Microbiome. Poster Presentation, American Academy of Pediatrics National Conference and Exhibition, Orlando, FL 2018.
9. Althouse M, Jiang W, Stewart C, Moorthy B, Lingappan K: Role of Gut Microbiota in Neonatal Lung Injury: Implications for Bronchopulmonary Dysplasia. Poster Presentation, Pediatric Academic Societies Meeting, Toronto, Canada 2018.
10. Althouse M, Stewart C, Jiang W, Moorthy B, Lingappan K: Effect of early Ampicillin treatment on the neonatal murine microbiome. Platform Presentation, Southern Society of Pediatric Research, New Orleans, LA 2018.
11. Callaway D, Jiang W, Lingappan K, Moorthy B: Decreased survival and increased oxygen-mediated lung injury in mice lacking Nrf2: Protection by beta-naphthoflavone. Poster Presentation, Pediatric Academic Societies Meeting, Toronto, Canada 2018.
12. Couroucli XI, Lingappan K, Wei-Liang Y, Maturu P, Jiang W, Moorthy B: Role of Cytochrome P450 (CYP) 1A2 in Neonatal Hyperoxic Lung Injury and Its Modulation by the CYP1A Inducer β - Naphthoflavone (BNF). Poster Presentation, Society of Toxicology Meeting, San Antonio, TX. 2018.

13. Couroucli XI, Wei-Liang Y, Jiang W, Lingappan K, Moorthy B, Lingappan K: Differential time-dependent effects of hyperoxia on gene expression profiling in lungs of newborn rats: Implications for bronchopulmonary dysplasia (BPD). Poster Presentation, Pediatric Academic Societies Meeting, Toronto, Canada 2018.
14. Dong X, Li H, Balaji S, Lingappan K: Sex-specific differences in key fibrosis related genes and Notch pathway mediators in primary neonatal murine lung fibroblasts exposed to hyperoxia in vitro: Implications for Bronchopulmonary Dysplasia (BPD). Poster Presentation, Pediatric Academic Societies Meeting, Toronto, Canada 2018.
15. Dong X, Shirazi J, Gleghorn J, Balaji S, Li H, Lingappan K: Sex- specific differences in primary neonatal lung fibroblasts and microvascular endothelial cells exposed to hyperoxia in vitro: Implications for bronchopulmonary dysplasia (BPD). Poster, APS Cardiovascular, Renal and Metabolic Diseases: Sex-Specific Implications for Physiology Conference, Knoxville, TN 2018.
16. Lingappan K, Dong J, Coarfa C: Role of Alternative Splicing in a Murine Model of Neonatal Hyperoxic Lung Injury and Sex- biased Differences: Implications for Bronchopulmonary Dysplasia. Poster Presentation, American Thoracic Societies Meeting, San Diego, CA 2018.
17. Lingappan K, Dong X: Long-term Effects of Neonatal Hyperoxia Exposure on Lung and Heart Health in a Murine Model: Role of Sex as a Biological Variable. Poster Presentation, American Thoracic Societies Meeting, San Diego, CA 2018.
18. Moorthy B, Couroucli XI, Lingappan K, Wang L, Jiang W: Disruption of the Genes for NAD(P)H Quinone Reductase (NQO1) or NQO2 Leads to Greater Susceptibility than Wild Type Mice to Hyperoxic Lung Injury In Vivo: Protection by β -Naphthoflavone (BNF) Administration. Poster Presentation, American Thoracic Societies Meeting, San Diego, CA 2018.
19. Moorthy B, Veith A, Wang L, Couroucli XI, Lingappan K, WeiwuJ: Single (Cyp1b1), double (Cyp1a1/b1), and triple (Cyp1a1/1a2/1b1) knockout mice are less susceptible to hyperoxic lung injury than wild type mice: Mechanistic role of CYP1B1. Poster Presentation, Pediatric Academic Societies Meeting, Toronto, Canada 2018.
20. Moorthy B, Wang L, Couroucli XI, Lingappan K, Jiang W: Mice Lacking the NAD(P)H Quinone Reductase (NQO1) or NQO2 Gene Are More Susceptible than Wild Type Mice to Hyperoxic Lung Injury In Vivo: Protection by β -Naphthoflavone (BNF) administration. Poster Presentation, Society of Toxicology Meeting, San Antonio, TX 2018.

21. Zhang Y, Shirazi J, Geghorn J, Lingappan K: Differential sex- specific effects of oxygen toxicity on human neonatal pulmonary microvascular endothelial cells: Effects on angiogenesis and Notch pathway. Platform presentation, Pediatric Academic Societies Meeting, Toronto, Canada 2018.
22. Althouse M, Venkatachalam A, Thapa S, Ford S, Lingappan K, Hagan J, Luna RA, Hair A: Preterm Infants With Severe Bronchopulmonary Dysplasia Develop A Less Diverse Intestinal Microbiome. Poster Presentation, Pediatric Academic Societies Meeting, Baltimore, MD 2019.
23. Callaway D, Jiang W, Lingappan K, Moorthy B: Decreased Survival and Increased Oxygen-Mediated Lung Injury in Mice Lacking Nrf2: Protection by Beta-Naphthoflavone. Poster Presentation, American Thoracic Societies Meeting, Dallas TX 2019.
24. Callaway D, Weiwu J, Lingappan K, Moorthy B.: Sex impacts survival and oxygen-mediated lung injury in mice lacking Nrf2: Rescue and abrogation of sex differences with beta-naphthoflavone. Platform Presentation, Pediatric Academic Societies Meeting, Baltimore, MD 2019.
25. Coarfa C, Veith AC, Robertson MJ, Lingappan K, Moorthy B: Analysis of Hyperoxic Lung Injury in Mice Deficient in Gene for Cytochrome P450 (CYP)1b1, 1a1 or 1a2. Poster Presentation, American Thoracic Societies Meeting, Dallas, TX 2019.
26. Couroucli X, Liang YW, Lingappan K, Maturu P, Jiang W, Moorthy B: Oral Maternal Administration of the Cytochrome P450 (CYP)1A/1B Inducer, Beta-Naphthoflavone (BNF), Attenuates Oxygen-Mediated Lung Injury in Newborn Mice: Implications for Bronchopulmonary Dysplasia (BPD). Poster Presentation, American Thoracic Societies Meeting, Dallas, TX 2019.
27. Hayward B, Shirazi J, Lingappan K, Gleghorn, J: The role of hormones on sex-based differences related to pulmonary vascular development and their implications in bronchopulmonary dysplasia. Poster Presentation, Pediatric Academic Societies Meeting, Baltimore, MD 2019.
28. Lingappan K, Dong X, Zhang Y: Sex-Specific miR-30a Mediated Snail Inhibition Decreases Pathologic Fibrosis in BPD. Poster Presentation, American Thoracic Societies Meeting, Dallas, TX 2019.
29. Lingappan K, Katz T, Kumar R, Walker C, Moorthy B, Coarfa C: Integrative Epigenomic/Transcriptomic Analysis of Sex-Biased Differences in in a Murine Model of Neonatal Hyperoxic Lung Injury. Poster Presentation, American Thoracic Societies Meeting, Dallas, TX. 2019.
30. Lingappan K, Veith A, Jiang W, Maturu P, Couroucli X I, Moorthy : Maternal Exposure of Mice to Benzo[a]pyrene (BP) Leads to Potentiation of Neonatal

Hyperoxic Lung Injury and Dysbiosis of Intestinal Microbiome: Potential Role of Gut-Lung Axis. Poster Presentation, American Thoracic Societies Meeting, Dallas, TX 2019.

31. Moorthy B, Lingappan K, Couroucli XI, Weiwu J: Novel role of the endogenous Ah receptor (AHR) ligand 6-formylindolo[3,2-b]carbazole (FICZ) in cytochrome P450 (CYP)1A induction and in the protection against hyperoxic lung injury. Poster Presentation, Pediatric Academic Societies Meeting, Baltimore, MD 2019.
32. Zhang Y, Dong X, Lingappan K: Injury: Implications for Bronchopulmonary Dysplasia. Poster Presentation, Pediatric Academic Societies Meeting, Baltimore, MD 2019.
33. Bhagavatula Moorthy, Rachel Stading, Krithika Lingappan, Weiwu Jiang: Maternal Exposure to Polycyclic Aromatic Hydrocarbons (PAHs) Augments Neonatal Hyperoxic Lung Injury: Mechanistic Roles of Cytochrome P450 (CYP)1A1, 1A2, and 1B1 Poster Presentation, Pediatric Academic Societies Meeting, Washington DC 2023.
34. Lingappan K, Gutierrez M, Cantu A: Sex-specific Differences in Cell-cell Communication Patterns and Receptor-ligand Interactions in the Developing Lung: Implications for Bronchopulmonary Dysplasia (P292). Poster Presentation, American Thoracic Societies Meeting Proceedings, Washington DC 2023.
35. Manuel E. Cantu Gutierrez, Abiud Cantu, Jonathan Edwards, Krithika Lingappan, : Remarkable Sexual Dimorphism in the Injured Neonatal Heart: Implications for Prematurity Related Cardiac Outcomes. Poster Presentation, Pediatric Academic Societies Meeting, Washington DC 2023.
36. Albertina Lee, Jonathan Edwards, Abiud Cantu, Krithika Lingappan: Neonatal Hyperoxia Exposure Impacts the Atria More Than Ventricles: Implications for Prematurity Related Cardiac Disease. Poster Presentation, Pediatric Academic Societies Meeting, Toronto, Canada 2024.
37. Eric Horowitz, Clyde Wright, Misty Good, Kerri Machut, Kaashif Ahmed, Krithika Lingappan: A Study of NIH-Funded Physician-Scientists in Neonatal-Perinatal Medicine: an exploration of gender differences across career stages. Podium Presentation, Pediatric Academic Societies Meeting, Toronto, Canada 2024.
38. Lee A, Gutierrez MC, Lingappan K: Neonatal Hyperoxia Exposure Impacts the Atria More Than Ventricles: Implications for Prematurity Related Cardiac Disease. Poster Presentation, Neonatal Heart Society, NeoHeart 2024: Cardiovascular Management of the Neonate, New York, NY 2024.
39. M.E. Cantu Gutierrez, A. Cantu, and K. Lingappan.: Modulation of the Injury Response in the Distal Lung Capillary Endothelium by Chromosomal and

Gonadal Sex: Insights at Single-cell Resolution. Am J Respir Crit Care Med 209(1): A4687, 2024.

40. A.A. Colborg, J.J. Rojas-Quintero, A.R. Waich, S. Oschner, N. Cortes-Santiago, M.C. Gazzaneo, J. Sucre, N.M. Villafranco, K. Lingappan, and F. Polverino.: Spatial Transcriptomics Resolve Surfactant and Ciliary Deficits in Bronchopulmonary Dysplasia. Am J Respir Crit Care Med 2011: A4591, 2025.
41. Fensterheim B, Mathew D, McKeague M, Lingappan K, Greenplate A, Wherry J.: "Development of the Preterm Infant Immune System is Shaped by Clinical Events", Pediatric Academic Societies Meeting, Hawaii. Poster Presentation, Pediatric Academic Societies Annual Meeting, Honolulu, HI 2025.
42. K. Lingappan, S. Han, D. Taha, K. Nilan, and K. Gibbs.: The Lymphatic Dysfunction Phenotype in Infants With Severe Bronchopulmonary Dysplasia (BPD): A Distinct, Rare Endophenotype. Am J Respir Crit Care Med 211: A1263, 2025.
43. Lingappan K, Feng R, Keller R, Pryhuber G, Davis S, Ronis S, Hamvas A, Poindexter B, Greenberg J, Moore P, Ryan R.: PROP Revisited: What NICU exposures contribute to BPD? Poster Presentation, Pediatric Academic Societies Meeting, Honolulu, HI 2025.
44. Savani R, Blanco C, Lingappan K: CD44 is critical for TLR4-mediated NLRP3 inflammasome activation and the development of Bronchopulmonary Dysplasia. Poster Presentation, Pediatric Academic Societies Annual Meeting, Honolulu, HI 2025.
45. Vyas-Read S, Day R, Cua C, Siddaiah R, McKinney R, Levy P, Austin E, Lingappan K, Gibbs K, Abman S, Bhombal S: Echocardiographic Detection of Pulmonary Hypertension and Right Ventricular Failure in Infants with Bronchopulmonary Dysplasia: An International Survey of the BPD Collaborative. Poster Presentation, Pediatric Academic Societies Meeting, Honolulu, HI 2025.
46. Wiener S, Zhang H, Lingappan K, Callaway D.: Acquired Lobar Emphysema in Severe BPD: Who, Why, and What can we do about it? Poster Presentation, Pediatric Academic Societies Meeting, Honolulu, HI 2025.

Editorials, Reviews, Chapters, including participation in committee reports (print or other media):

1. Lingappan K, Suresh GK: Assisted Ventilation of the Neonate: An Evidence-Based Approach to Newborn Respiratory Care. Chapter 5: Evidence based respiratory care Assisted Ventilation of the Neonate. Elsevier Health Sciences. Page: 41-48, 2016.
2. Hoover J, Lingappan K.: One-Month-Old Infant With Hypotonia and Cardiorespiratory Arrest. Clin Pediatr 56(4): 397-398, Apr 2017.

3. Thomas AN, Hagan JL, Lingappan K.: Noninvasive ventilation strategies: which to choose? J Perinatol 38(5): 447-450, May 2018.
4. Lingappan K, Savani RC.: The Wnt Signaling Pathway and the Development of Bronchopulmonary Dysplasia. Am J Respir Crit Care Med 201(4): 1174-1176, May 2020. PMCID: PMC7233338
5. Lingappan K, Hayward-Piatkovskyi B, Gleghorn JP: Neonatal Lung Diseases: mechanisms driving sex differences. Sex-Based Differences in Lung Physiology. Silveyra, Patricia, Tigno, Xenia (eds.). Springer International Publishing, 2020 Notes: Chapter.
6. Lingappan K.: Does the Epigenome Hold Clues to Leptin-associated Hypertension in Obesity? Am J Respir Cell Mol Biol. 65(2): 132-133, Aug 2021. PMCID: PMC8399570
7. Machut KZ, Bhombal S, Escobedo M, Kataria-Hale J, Kushnir A, Lingappan K, Oji-Mmuo CN, Owens L, Savich R, Song C, Wright R, Dammann CEL.: Call to action: gender equity in neonatology. J Perinatol 47(2): 982-983, Apr 2022.
8. Machut KZ, Lingappan K, Savich R, Dammann CEL.: Toolkit for gender equity in pediatrics. Pediatr Res 95(3): 594-597, Oct 2023.
9. Lingappan K, Matthay MA: Unlocking the Therapeutic Code of Mesenchymal Stromal Cells. Am J Respir Crit Care Med. 211(3): 313-315, Mar 2025.
10. Lee A, Weitkamp JH, Tune A, Couto J, Lingappan K.: Success and opportunities of the American Academy of Pediatrics Marshall Klaus research grant program in neonatal-perinatal medicine. Journal of Perinatology 45(5): 595-599, May 2025.
11. Horowitz EN, Good M, Machut KZ, Ahmad K, Wright CJ, Lingappan K.: NIH-funded neonatologist physician-scientists: an exploration of equity and success. Pediatr Res Page: doi: 10.1038, Sep 2025 Notes: epub ahead of print.