

Updated 04/06/2022

Name:

James Lawrence Wynn, MD

Office Address:

Department of Pediatrics, Division of
Neonatal-Perinatal Medicine
Department of Pathology, Immunology,
and Experimental Medicine
1600 SW Archer Road
PO Box 100296

Gainesville, FL 32610-0296

Office Phone number:

352.273.8985

Email:

james.wynn@peds.ufl.edu

james.l.wynn@gmail.com

Date and Place of Birth:

August 26, 1969; Marietta, Ohio

NIH eCommons ID:

jwynn153

Laboratory website:

<http://wynn.research.pediatrics.med.ufl.edu>

ORCID iD:

[0000-0001-7052-4836](https://orcid.org/0000-0001-7052-4836)

Twitter:

[@Wynn_JL](https://twitter.com/Wynn_JL)

LinkedIn:

<https://www.linkedin.com/in/james-wynn-5a88b780/>

Doximity:

<https://www.doximity.com/pub/james-wynn-md-9647012d>



Education:

College:

Florida Atlantic University (Boca Raton, FL), Bachelor of Science-*summa cum laude*, May 1998

Professional:

University of Florida, Doctor of Medicine, 2002

Residency:

Pediatrics, UF Health Shands Hospital, University of Florida, 2002-2005

Fellowship:

Neonatal-Perinatal Medicine, UF Health Shands Hospital, University of Florida, 2005-2008

Research:

Post-doctoral research mentor Lyle L. Moldawer, PhD University of Florida, 2005-2008

Other:

Pediatric Critical Care Ultrasound Workshop, University of Florida, August 25-27th, 2017

Licensure and Certification:

North Carolina (#2008-00193), February 2008-July 2012

Tennessee (#48373), February 2012-July 2015

Florida (#123962), April 2015-present

Specialty Boards:

American Board of Pediatrics, Pediatrics, October 2006

American Board of Pediatrics, Neonatal-Perinatal Medicine, March 2010

Academic Appointments:

Medical Instructor, Department of Pediatrics, **Duke University**, July 2008-October 2010

Assistant Professor of Pediatrics, Department of Pediatrics, **Duke University**, October 2010-June 2012

Assistant Professor of Pediatrics, Department of Pediatrics, **Vanderbilt University**, July 2012-June 2015

Associate Professor of Pediatrics, Department of Pediatrics, **University of Florida**, July 2015-2019

Associate Professor of Experimental Medicine, Department of Pathology, Immunology, and Laboratory Medicine, **University of Florida**, September 2015-20019

Associate Director, Neonatal-Perinatal Medicine Fellowship Program, (website: <http://neonatology.pediatrics.med.ufl.edu/fellowship-program/>), **University of Florida**, July 2015-2017

Professor (tenured) of Pediatrics, Pathology, Immunology, and Laboratory Medicine, **University of Florida**, July 2019-

Current Hospital Appointments:
Professional Organizations:

Elected:

UF Health, Shands Teaching Hospital, July 2015-

Shock Society, 2014-2019

Society for Pediatric Research, 2011-present

Perinatal Research Society

Associate Member, 2012-2015

Full Member, 2015-present

Council Member: 2017-2021

American Association of Immunologists, 2015-2022

American Pediatric Society, November 2019-present

Invited:

Vanderbilt Research Advisory Committee, Department of Pediatrics, 2012-2014

American Heart Association's Immunology Basic Science III Peer Review Committee, 2014-2018

Council of Faculty and Academic Societies, Association of

American Medical Colleges, Junior Faculty representative (2015-2018),

Appointed by Dr. Marian Limacher, Senior Associate Dean for Faculty Affairs

The Vanderbilt Pre³ Initiative: Preventing adverse Pregnancy outcomes and Prematurity: 2014

<https://medschool.vanderbilt.edu/pre3-initiative/>

Precision Vaccines Program: 2016-2022

<http://www.childrenshospital.org/research-and-innovation/research/departments/medicine/precision-vaccines-program>

USAID/Gates Foundation Grand Challenges Annual Meeting, 2017

Synbiotics to **PREvent** Infections in **Newborns** Trial (**SPRINT**) planning workshop sponsored by the *Bill and Melinda Gates Foundation*. *Invited for expertise on neonatal sepsis and definitions*

PODIUM (*Pediatric Organ Dysfunction Information Update Mandate*)
Invited as the only neonatologist among a group of pediatric critical care experts and relevant stakeholders assembled to develop consensus definitions, diagnostic criteria, and data elements for MODS in children

Society of Critical Care Medicine (SCCM) Pediatric/Children's Sepsis Definition Task Force. Invited as the only neonatologist among a group of international pediatric critical care experts and relevant stakeholders assembled to develop consensus definitions and diagnostic criteria

Advisory Board Member for the AAP NPM Section Neonatal and Developmental Medicine Symposium, 2019-present

Other: American Academy of Pediatrics (#1003919), 2008-Present
Section on Perinatal Pediatrics, 2008-Present

Professional Activities:

National Institutes of Health:

- Loan Repayment Program Reviewer**
 - 2013/08 ZHD1 DSR-K (LR) 1
 - 2016/08 ZHD1 DSR-K (LR) 1
 - 2017/08 ZHD1 DSR-K (LR) 1
 - 2018/08 ZHD1 DSR-K (LR) 1
 - 2020/08 ZHD1 DSR-K (LR) 1
 - 2021/08 ZHD1 DSR-K (91) 1
- NIAID reviewer**, 2013 Human Immunology Project Consortium (HIPC)
- NICHD Chair**
 - 2014/05 ZHD1 DSR-A (51) 1 - Pediatric Critical Care and Trauma Scientist Development Program
 - 2019/01 ZHD1 DSR-G (50)
- NHLBI reviewer**
 - 2017/05 ZHL1 CSR-R (M2) 1
 - 2018/05 ZEB1 OSR-D (M1) S
 - 2018/05 NIH-NIBIB POCTR N U54
- ZRG1 reviewer**
 - 2016/08 ZRG1 SBIB-V (55) R
 - 2017/01 ZRG1 SBIB-H (82) S
 - 2019/01 ZRG1 SBIB-D (82) R
 - 2020/05 ZRG1 EMNR-C(55)
 - 2020/10 ZRG1 BST-R (02) M
- NICHD reviewer**
 - 2021/01 PN
 - 2021/01 ZHD1 DSR-T (51) 1
 - 2021/10 PN

Referee-Grant agencies:	American Heart Association, Immunology Basic Science III: 2014-2016 USAID: Saving Lives at Birth program Thrasher Fund King's Health Partners R&D Challenge Fund National Children's Research Centre Grants
Associate Editor:	<i>Pediatric Research</i> . Neonatology Section: 2016-present 4th Edition of Neonatology: Questions and Controversies. Infectious Disease, Immunology, and Pharmacology
Guest Editor:	Frontiers Journals . Special Issue: <i>The Neonatal Immune System: A Unique Host-Microbial Interface</i> http://journal.frontiersin.org/researchtopic/5017/the-neonatal-immune-system-a-unique-host-microbial-interface#articles
Referee-Journals:	Acta Paediatrica American Journal of Perinatology Reports American Journal of Respiratory Cell and Molecular Biology American Journal of Respiratory and Critical Care Medicine Arch of Disease in Childhood; Fetal/Neonatal BMC Genomics BMC Pediatrics BMJ Epocrates BMJ Open Brain Behavior and Immunity Clinical Infectious Diseases Clinical and Vaccine Immunology Eastern Journal of Medicine EBioMedicine European Journal of Immunology Expert Review of Clinical Immunology Expert Review of Molecular Diagnostics Frontiers in Immunology Human Immunology Immunology Infection and Immunity Innate Immunity JAMA Pediatrics Journal of Clinical Investigation Journal of Infectious Diseases Journal of Leukocyte Biology Journal of Neonatal-Perinatal Medicine Journal of Pediatrics Journal of Perinatology Journal of Reproductive Immunology Journal of the American Medical Informatics Association

Laboratory Investigation
Lancet: Respiratory Medicine
Lancet: Infectious Diseases
Nature Communications
Neonatology
Pediatric Critical Care Medicine
Pediatric Research
Pediatric Academic Societies, abstract reviewer
Pediatrics
PLOS ONE
Regulatory Peptides
Scandinavian Journal of Clinical & Laboratory Investigation
Science Translational Medicine
The Pediatric Infectious Disease Journal
World Journal of Pediatrics

Special Awards or Recognition for Professional Activities:

Research Awards:

2007	<i>Children's Miracle Network (CMN) Travel Award</i> for travel to Trauma, Shock, and Inflammation Society (TSIS) meeting 2007 in Munich, Germany
2007	<i>Douglas J. Barrett Academic Fellowship Physician Award</i> (\$50,000 salary)
2007	<i>Pediatric Academic Society Young Investigator's Travel Award</i> for travel to PAS meeting 2007 Toronto, Canada
2008	<i>Pediatric Academic Society Young Investigator's Travel Award</i> for travel to PAS meeting 2008 Hawaii
2008	University of Florida, Department of Pediatrics, <i>Henry Kokomoor Outstanding Pediatric Fellow Research Award</i>
2011	National Institutes of Health, Loan Repayment Award-Pediatric Research
2012	NIH/NICHD-Sponsored-Perinatal Research Society R13 Young Investigator Award: Grant Writing Seminar
2012	Perinatal Research Society, Young Investigator, <i>Cassady Presidential Award</i>
2013	National Institutes of Health, Loan Repayment Award Renewal-Pediatric Research
2013	<i>Evaluation of Peripheral Blood Neutrophil Gene Expression During Neonatal Sepsis</i> featured among all Gerber Foundation (GF) funded studies in GF Annual Research Report
2014	Accepted to the Early Career Reviewer (ECR) Program, Center for Scientific Review, National Institute of Health
2016	Perinatal Research Society Prize for an Outstanding Paper by an Associate Member. "Targeting IL-17A attenuates neonatal sepsis mortality induced by IL-18"

Updated 04/06/2022

Teaching Awards:

2004	Society of Teaching Scholars: <i>Resident Teaching Award for Outstanding Medical Student and Housestaff Teaching</i> -Department of Pediatrics, University of Florida, College of Medicine
2005	Society of Teaching Scholars: <i>Resident Teaching Award for Outstanding Medical Student and Housestaff Teaching</i> -Department of Pediatrics, University of Florida, College of Medicine
2005	<i>Resident Teaching Award</i> : Peer-elected as most outstanding teacher for University of Florida Class of 2005
2022	<i>Richard Rivas, MD Memorial Great Teacher Award</i> , Specialty Review in Neonatology

Teaching Activities:

Continuing Medical Education:

Program Director 2015-2018: *University of Florida Department of Pediatrics, Neonatal Grand Rounds*. I initiated and developed this cyclically updated, 90-lecture, live-streaming and archived 2-year physiology and pathophysiology didactic lecture series that offers AMA category 1 CME credit per lecture created to offer our neonatology providers (including our fellows) a structured learning experience. My responsibilities included scheduling presentations and speakers, organization of materials, and assessment of participants' performance.
<http://neonatology.pediatrics.med.ufl.edu/fellowship-program/education/neonatal-grand-rounds-talks/>

Invited Lecturer. Annual Specialty Review in Neonatology/Perinatology. "*Neonatal Immunology*", February 2011-present.

Invited Lecturer. IPOKRATES course, *Infectious Diseases and Immunologic Disorders in the Newborn*. Lisbon, Portugal. October 2012.

Invited Lecturer. IPOKRATES course, *Infectious Diseases and Immunologic Disorders in the Newborn*. Bangalore, India. March 2015.

Invited Lecturer. Advances in Neonatology and Pediatrics Conference. Hyderabad, India. March 2017.

Invited Lecturer. AAP, NeoPREP, 2018-

Research Supervision/Mentoring:

Dr. Cheryl Lin (Medical student, Duke University)

Project title: *Very low birth weight neonates who survive early-onset sepsis do not have an increased risk of developing late-onset sepsis*
Project completed July 2012 and manuscript published November 2012.

My Role: Mentor, Direct supervision of trainee in hypothesis, data handling, and manuscript preparation

Completed PCCM fellowship 2018, Columbia University

Dr. Jillian Crouchley (neonatology fellow, Duke University)

Project title: *The effects of low dose dopamine on urine output in oliguric preterm infants*

PAS abstract 2012, Manuscript accepted January 2013.

My Role: Mentor, Direct supervision of trainee in hypothesis, data handling, and manuscript preparation

Neonatologist, Raleigh NC

Dr. Kevin Dufendach (neonatology fellow, Vanderbilt University)

July 2014-June 2015

Project title: *Virulence Determinants of an Aggressive Escherichia coli isolate causing lethal neonatal meningoencephalitis*

My Role: Mentor, Direct supervision of trainee in hypothesis, data handling, and manuscript preparation

Neonatology faculty, Cincinnati Children's Hospital

Dr. Joann Romano-Keeler (Clinical Instructor, Vanderbilt University)

July 2013-June 2015

Project titles: *Oral colostrum priming shortens hospitalization without changing the immunomicrobial milieu; Neonatal CD71+ Erythroid Cells Do Not Modify Murine Sepsis Mortality; Great expectorations: the potential of salivary 'omic' approaches in neonatal intensive care.*

My Role: Mentor, Training of faculty in hypothesis, study design, data handling, and manuscript preparation.

Neonatology faculty, University of Illinois at Chicago

Dr. Scott O. Guthrie (Associate Professor, Vanderbilt University)

June 2013-June 2015

Project title: *Postnatal Age Is a Critical Determinant of the Neonatal Host Response to Sepsis; Histological chorioamnionitis shapes the neonatal transcriptomic immune response.*

My Role: Mentor, Training of faculty in hypothesis, study design, data handling, and manuscript preparation.

Neonatology faculty, Vanderbilt University

Dr. Blair Stocks (MSTP student, Vanderbilt University)

July 2013-June 2015

Project title: *Neonatal CD71+ Erythroid Cells Do Not Modify Murine Sepsis Mortality*

My Role: Co-mentor on specific project, Direct supervision of trainee in hypothesis, study design, data handling, and manuscript preparation.

Urology resident, Baylor University

Dr. Chris O. Wilson (Post-bac student, Vanderbilt University)

July 2013-June 2015

Project title: *Targeting IL-17A attenuates neonatal sepsis mortality induced by IL-18.*

My Role: Co-mentor on specific project, Direct supervision of trainee in hypothesis, study design, data handling, and manuscript preparation.

Post-doc, Vanderbilt University

Dr. Mhd Wael Alrifai (neonatology fellow, Vanderbilt University

July 2014-June 2015

Project title: *Neonatal CD71+ Erythroid Cells Do Not Modify Murine Sepsis Mortality.*

My Role: Mentor, Direct supervision of trainee in hypothesis, study design, data handling, and manuscript preparation.

Neonatology faculty, Vanderbilt University

Dr. Junaid Iqbal (post-doc, Vanderbilt University)

January 2015-June 2015

Project title: *Lethal neonatal meningoencephalitis caused by multi-drug resistant, highly virulent Escherichia coli.*

My Role: Co-mentor on specific project, Direct supervision of trainee in hypothesis, study design, data handling, and manuscript preparation.

Microbiology Faculty, Aga Khan University

Ms. Taryn Tolle (Undergraduate Volunteer)

May 2016-January 2017

Project title: *Murine neonatal sepsis is associated with significant cachexia and neurodevelopmental impairment. PAS 2017, Shock 2017*

My Role: Mentor, Direct supervision of trainee in hypothesis, animal husbandry, animal modeling of human disease, molecular laboratory techniques, data handling/statistical methods, experimental protocol design, and manuscript preparation

University of Florida Veterinary School of Medicine, Class of 2022

Dr. Steven J Raymond (surgical resident, University of Florida)

July 2016-2018

Project titles: *Adjuvant pretreatment with alum protects neonatal mice in sepsis through myeloid cell activation; Unique transcriptomic response to sepsis is observed among patients of different age groups; Neutrophil chemotaxis and transcriptomics in term and preterm neonates; Impact of Early-Life Exposures to Infections, Antibiotics, and Vaccines on Perinatal and Long-term Health and Disease; Immunological Defects in Neonatal Sepsis and Potential Therapeutic Approaches.*

My Role: Mentor, Direct supervision of trainee in hypothesis, study design, data handling, and manuscript preparation

Dr. Megan Tzeng (PCCM fellow, PCCM faculty at University of Florida)

November 2016-2018

Project title: Characterization of lactic acidosis in pediatric post-operative cardiac surgery patients

My Role: Mentor, Direct supervision of trainee in hypothesis, study design, data handling, and manuscript preparation

PCCM faculty, Inova Children's Hospital, Virginia Commonwealth

Ms. Ashley Royce (Undergraduate Volunteer, University of Florida)

March 2017-September 2018

My Role: Mentor, Direct supervision of trainee in hypothesis, animal husbandry, animal modeling of human disease, molecular laboratory techniques, data handling/statistical methods, experimental protocol design, and manuscript preparation

University of Florida graduate 2019, Research Assistant at Florida Space Institute

Mr. Ryan Loveland (Undergraduate Volunteer, University of Florida)

May 2017-July 2018

My Role: Mentor, Direct supervision of trainee in hypothesis, animal husbandry, animal modeling of human disease, molecular laboratory techniques, data handling/statistical methods, experimental protocol design, and manuscript preparation

University of Florida graduate 2020, Certified Nursing Assistant at North Florida Regional Medical Center

Dr. Irina Prelipcean (Neonatology fellow, University of Florida)

July 2017-present

Project title: *Relative adrenal insufficiency in preterm infants*

My Role: Mentor, Direct supervision of trainee in hypothesis, study design, data handling, and manuscript preparation

Neonatology faculty, University of Rochester 2020

Dr. Russ Hawkins (surgical resident, University of Florida)

July 2017-2019

Project title: *Microfluidic Assessment of Clinical Outcomes in Preterm Newborns.*

My Role: Co-mentor, data handling, and manuscript preparation

Pediatric surgery fellowship, University of Florida 2022

Dr. Youness Tolaymat (neonatology fellow, University of Florida)

January 2018-2020

Project title: The role of inhaled nitric oxide in hypoxic-ischemic injury

My Role: Mentor, Direct supervision of trainee in hypothesis, study design, data handling, and manuscript preparation

Neonatologist, Columbus Ohio 2020

Ms. Kaitlyn Wendling (Undergraduate Volunteer, University of Florida)

May 2018-2020

My Role: Mentor, Direct supervision of trainee in hypothesis, animal husbandry, animal modeling of human disease, molecular laboratory

techniques, data handling/statistical methods, experimental protocol design, and manuscript preparation

Florida State University physician's assistant program

Ms. Hannah Baker (Undergraduate Volunteer, University of Florida)

May 2018-2020

My Role: Mentor, Direct supervision of trainee in hypothesis, animal husbandry, animal modeling of human disease, molecular laboratory techniques, data handling/statistical methods, experimental protocol design, and manuscript preparation

Florida International University School of Medicine, Class of 2025

Ms. Sarah Welch (Undergraduate Volunteer, University of Florida)

May 2018-2020

My Role: Mentor, Direct supervision of trainee in hypothesis, animal husbandry, animal modeling of human disease, molecular laboratory techniques, data handling/statistical methods, experimental protocol design, and manuscript preparation

Accepted to nursing school 2021

Ms. Hayley Moyer (Master's of Medical Sciences, University of Florida)

August 2019-present

My Role: Mentor, Direct supervision of trainee in hypothesis, animal husbandry, animal modeling of human disease, molecular laboratory techniques, data handling/statistical methods, experimental protocol design, and manuscript preparation.

Successful defense 11/2020, Medtronic Manager

Dr. Orlyn Lavilla

January 2020-present

Project title: *Maximum Vasoactive-Inotropic Score and Mortality in Extremely Premature, Extremely Low Birth Weight Infants.*

Project title: *Hourly kinetics of critical organ dysfunction in extremely preterm infants*

My Role: Mentor, Training of faculty in hypothesis, study design, data handling, and manuscript preparation.

Neonatology faculty, University of Florida (Jacksonville)

Dr. Khyzer Aziz (Neonatology fellow)

January 2020-present

Project title: *Maximum Vasoactive-Inotropic Score and Mortality in Extremely Premature, Extremely Low Birth Weight Infants.*

Project title: *Hourly kinetics of critical organ dysfunction in extremely preterm infants*

My Role: Mentor, Training of faculty in hypothesis, study design, data handling, and manuscript preparation.

Neonatology faculty, Johns Hopkins University

Consulting:

Bristol-Myers Squibb. Consultant for neonatal sepsis expertise
My role is to advise on the clinical trial of Opdivo® (nivolumab, anti-PD1) for pediatric sepsis (Spring 2017)

Bill and Melinda Gates Foundation. Invited consultant
Synbiotic Trial Planning Workshop. March 2018
Passive immunotherapy for the prevention and treatment of neonatal sepsis. October 2018

Fluid Imaging Technologies. Consultant for neonatal sepsis expertise.
Diagnostic platform to detect bacteremia in neonates. Spring 2019

Evolve Biosystems. Consultant for neonatal sepsis expertise. Clinical trial to reduce neonatal sepsis. Fall 2019

Roche Diagnostics. Consultant for neonatal sepsis expertise. 2021

Clinical Service Awards:

2007	<i>UF Health Shands Distinguished Customer Service</i> by Physicians-nominated by patients, families, and peers
2008	<i>UF Health Shands Distinguished Customer Service</i> by Physicians-nominated by patients, families, and peers
2008	Induction into <i>Gold Humanism Honor Society</i>
2009	Alamance Regional Medical Center: <i>Distinguished Customer Service</i> by Physicians-nominated by patients, families, and peers
2010	Alamance Regional Medical Center: <i>Distinguished Customer Service</i> by Physicians-nominated by patients, families, and peers
2011	Alamance Regional Medical Center: <i>Distinguished Customer Service</i> by Physicians-nominated by patients, families, and peers
2012	ELEVATE: recognized by Vanderbilt Nursing for service excellence and credo behavior
2012	ELEVATE: recognized by Vanderbilt Nursing for service excellence and credo behavior

Research Program:

Submitted/In Preparation:

National Institutes of Health, SBIR R43, submitted September 2021
Rapid, Low Blood Volume Host Response Diagnostics for Neonatal Infection
Co-I

National Institutes of Health, INTEND RFA, R01 submitted October 5th 2021
Early life immune age (ELIA study)
Multi-PI (Kollmann, Aghaeepour, Lee, Verhasselt, Wynn)

Updated 04/06/2022

National Institutes of Health, R01 submission November 2021

Biomimetic Macrophage Nanosponges as a Broad-Spectrum Therapeutic for Neonatal Sepsis, and Spontaneous Intestinal Perforation

Co-I

National Institutes of Health, NIGMS RGM134156-A1, R01 submission February 2022

Modifiable Determinants of Neonatal Sepsis-Induced Brain Injury

PI

National Institutes of Health, Large-scale, multi-center R01, submission February 2022

Neonatal Sequential Organ Failure Assessment (nSOFA) Scores by Gestational Age and Outcome

PI

Active:

National Institutes of Health, NIGMS **R01**GM128452 4/2018-3/2023

Modifiable Determinants of Mortality in Neonatal Sepsis

James L. Wynn, PI, 35% FTE

National Institutes of Health, NICHD **R01**HD089939 8/2017-5/2022

Microfluidic Assessment of Clinical Outcomes in Preterm Newborns

Lyle L. Moldawer, Daniel Irima, James L. Wynn; Multi-PI, 10% FTE

National Institutes of Health, NICHD **R01**HD097081 7/2019-6/2024

Salivary Diagnostics for Sepsis Screening in the Neonate

James L. Wynn, Co-I (J. Maron-PI), 10% FTE

National Institutes of Health, NIBIB **R43**EB029863 9/2020-8/2022

A New Tool to Rapidly Diagnose Sepsis using Flow Imaging Microscopy and Machine Learning

James L. Wynn, Co-I, 5% FTE

Children's Miracle Network 7/2021-6/2022

Pediatric Sequential Organ Failure Assessment and Outcomes in the PICU.

James L. Wynn, Co-I (Mentor; PI-Dr. Lara Nichols)

Completed:

Children's Miracle Network

Evaluation and Characterization of Immunological Changes in Murine Neonatal Sepsis.

James L. Wynn, PI

1/2005-12/2006

Biosynexus Inc.

Phase 2b/3, Multi-center, Randomized, Double-Blind, Placebo Controlled Trial to Evaluate the Safety and Efficacy of Pagibaximab Injection in Very Low Birth Weight Neonates for the Prevention of Staphylococcal Sepsis

James L. Wynn, Site PI

3/2009-5/2011

HHSN-201000003I-TO3

PTN Task Order #3 - Safety and Pharmacokinetics of Multiple Dose Metronidazole in Premature Infants (Cohen-Wolkowicz, PI)

Updated 04/06/2022

James L. Wynn, Site PI

12/6/2012-9/5/2012

NIH-NICHD 2U10HD040492-11

Cooperative Multicenter Neonatal Research Network

Ronald Goldberg, PI

James L. Wynn, Significant Contributor

4/1/2011-6/31/2012

National Institutes of Health, Loan Repayment Award-Pediatric Research

Evaluation of Peripheral Blood Neutrophil Gene Expression During Neonatal Sepsis

James L. Wynn, PI

7/2011-7/2015

Gerber Foundation

Evaluation of Peripheral Blood Neutrophil Gene Expression During Neonatal Sepsis

James L. Wynn, PI

1/2011-12/2013

Vanderbilt Pediatrics, Turner-Hazinski Research Award

The Role of the Inflammasome in Neonatal Sepsis

James L. Wynn, PI

7/2013-6/2014

National Institutes of Health: NIGMS R01GM096994

MMP-8 As a Novel Therapeutic Target in Sepsis

James L. Wynn, Collaborator

4/2011-3/2015

Thrasher Research Fund

Effect of Colostrum on Innate Mucosal Immunity in Very Preterm Infants

James L. Wynn, PI

2/2013-11/2015

National Institutes of Health, NIGMS K08GM106143

The Role of the Inflammasome in Neonatal Sepsis

James L. Wynn, PI

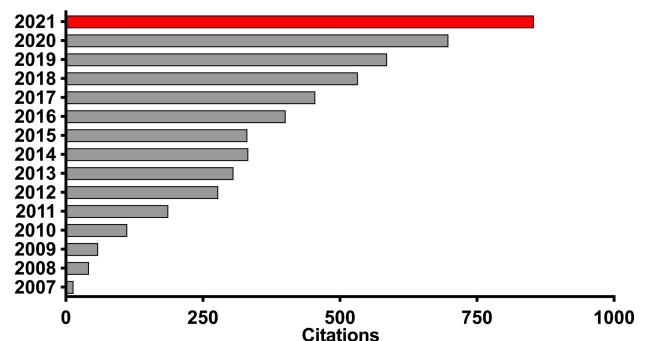
4/2013-4/2018

Publications and presentations:

>5500 citations since 2007 per [Google Scholar](https://scholar.google.com/citations?user=JLWynn)

h-index: **35**

i10 index: **68**



Original Science Publications (first or senior author in bold):

1. Scumpia PO, Delano MJ, Kelly KM, O'Malley K, Efron PA, McAuliffe PF, Brusko T, Ungaro R, Barker T, **Wynn JL**, Atkinson MA, Reeves WH, Clare Salzler MJ, and Moldawer LL. Increased natural CD4⁺CD25⁺ regulatory T cells and their suppressor activity does not contribute to mortality in murine polymicrobial sepsis. *J Immunol* 2006 Dec 1;177(11):7943-9. PMID: 17114466
2. Scumpia PO, Delano MJ, Kelly-Scumpia KM, Weinstein JS, **Wynn JL**, Winfield RD, Xia C, Chung CS, Ayala A, Atkinson MA, Reeves WH, Clare-Salzler MJ, Moldawer LL. Treatment with G1TR agonistic antibody

Updated 04/06/2022

corrects adaptive immune dysfunction in sepsis. *Blood*. 2007 Nov 15;110(10):3673-81. *PMCID: PMC2077315*

3. Delano MJ, Scumpia PO, Weinstein JS, Coco D, Nagaraj S, Kelly-Scumpia K, O'Malley K, [Wynn JL](#), Antonenko S, Al-Quran S, Swam R, Chung C, Atkinson MA, Ramphal R, Gabrilovich D, Reeves W, Ayala A, Philips J, Laface D, Heyworth P, Clare-Salzer M, Moldawer LL. MyD88-Dependent expansion of an immature Gr1⁺CD11b⁺ population induces T-cell suppression and T_H2 polarization in sepsis. *J Ex Med*. 2007 Jun 11;204(6):1463-74. *PMCID: PMC2118626*
4. [Wynn JL](#), Scumpia PO, Delano MJ, O'Malley K, Abouhamze A, Ungaro R, Moldawer LL. Increased mortality and altered immunity in neonatal sepsis produced by generalize peritonitis. *Shock*. 2007 Dec;28(6):675-683. *PMID: 17621256*
5. [Wynn JL](#), Scumpia PO, Winfeld RD, Delano MJ, Barker T, Ungaro R, Levy O, Moldawer LL. Defective innate immunity predisposes neonates to poor sepsis outcome, but is reversed by TLR agonists. *Blood*. 2008 Sep 1;112(5):1750-8. *PMCID: PMC2518883*
6. Kelly-Scumpia KM, Scumpia PO, Delano MJ, Weinstein J, Cuenca AG, [Wynn JL](#), Moldawer LL. Type I interferon signaling in hematopoietic cells is required for survival in murine polymicrobial sepsis by regulating CXCL10. *J Exp Med*. 2010 Feb 15;207(2):319-26. *PMCID: PMC2822595*
7. Cuenca AG, [Wynn JL](#), Kelly-Scumpia KM, Scumpia PO, Vila L, Delano MJ, Mathews CE, Wallet SM, Reeves WM, Behrns KE, Nacionales DC, Efron PA, Kunkel SL, Moldawer LL. Critical role for CXCL10 (IP-10)/CXCR3 signaling in the murine neonatal response to sepsis. *Infect Immun*. 2011 Jul;79(7):2746-54. *PMID: 21518789, PMCID: PMC3191971*
8. [Wynn JL](#), Cvijanovich NZ, Allen GL, Thomas NJ, Freishtat RJ, Anas N, Meyer K, Checchia PA, Lin R, Shanley TP, Bigham MT, Wong HR. The influence of developmental age on the early transcriptomic response of children with septic shock. *Mol Med*. 2011;17(11-12):1146-56. *PMID: 21738952, PMCID: PMC3321808*
9. Kelly-Scumpia KM, Scumpia PO, Weinstein JS, Delano MJ, Cuenca AG, Nacionales DC, [Wynn JL](#), Lee PY, Kumagai Y, Efron PA, Akira S, Wasserfall C, Atkinson MA, and Moldawer LL. B cells enhance early innate immune responses during bacterial sepsis. *J Exp Med*. 2011 Aug 1;208(8):1673-82. *PMCID: PMC3149216*
10. [Wynn JL](#), Benjamin Jr DK, Benjamin DK, Cohen-Wolkowicz M, Clark RH, Smith PB. Very Late Onset Infections in the Neonatal Intensive Care Unit. *Early Hum Dev*. 2012 Nov;88(11):905-9. *PMID: 21924568, PMCID: PMC3248995*
11. [Wynn JL](#), Tan S, Gantz MG, Das A, Goldberg RN, Adams-Chapman I, Stoll BJ, Shankaran S, Walsh MC, Auten KJ, Miller NA, Sánchez PJ, Higgins RD, Cotten CM, Smith PB, Benjamin Jr DK, Neonatal Research Network. Outcomes following candiduria in extremely low birth weight infants. *Clin Infect Dis*. 2012 Feb 1;54(3):331-9. *PMID: 22144537, PMCID: PMC3258271*

Updated 04/06/2022

12. LaTuga MS, Ellis JC, Cotten CM, Goldberg RN, [Wynn JL](#), Jackson RB and Seed PC. Beyond Bacteria: a Study of the Enteric Microbial Consortium in Extremely Low Birth Weight Infants. *PLoS One*. 2011;6(12):e27858. Epub 2011 Dec 8. PMID: 22174751, PMCID: PMC3234235
13. Lin CB, Hornik CP, Clark R, Cotten CM, Benjamin Jr. DK, Cohen-Wolkowicz M, Smith PB, [Wynn JL](#). Very low birth weight neonates who survive early-onset sepsis do not have an increased risk of developing late-onset sepsis. *Early Hum Dev*. 2012 Nov;88(11):905-9. PMID: 22840605, PMCID: PMC3462255
14. [Wynn JL](#), Hansen NI, Das A, Cotton CM, Goldberg RN, Sanchez PJ, Bell EF, Van Meurs KP, Carlo WA, Laptook AR, Higgins RD, Benjamin Jr DK, and Stoll BJ for the NICHD Neonatal Research Network (NRN). Early sepsis does not increase the risk of late sepsis in very low birth weight neonates. *J Pediatr*. 2013 May;162(5):942-8.e1-3. PMID: 23295144, PMCID: PMC3622770
15. [Wynn JL](#), Li L, Cotten CM, Phelps DL, Shankaran S, Goldberg RN, Carlo WA, Van Meurs KP, Das A, Vohr BR, Higgins RD, Stoll BJ, and D'Angio CT for the NICHD NRN. Blood stream infection is associated with altered heptavalent pneumococcal conjugate vaccine immune responses in very low birth weight infants. *J Perinatol*. 2013 Aug;33(8):613-8. PMID: 23370608, PMCID: PMC3722279
16. Crouchley JL, Smith PB, Cotten CM, Hornik CD, Goldberg RN, and [Wynn JL](#). The effects of low dose dopamine on urine output in oliguric preterm infants. *J Perinatol*. 2013 Aug;33(8):619-21. PMID: 23448938
17. Cohen-Wolkowicz M, Sampson M, Bloom BT, Arrieta A, [Wynn JL](#), Martz K, Harper B, Kearns GL, Capparelli E, Benjamin Jr. DK, Smith PB, on behalf of the Pediatric Trials Network. Population and Developmental Pharmacokinetics of Metronidazole Using Plasma and Dried Blood Spot Samples from Premature Infants. *Pediatr Infect Dis J*. 2013 Sep;32(9):956-961. PMID: 23587979. PMCID: PMC3769518
18. Seigel J, Smith PB, Ashley P, Cotten CM, Herbert C, King B, Maynor A, Neill S, [Wynn JL](#), Bidegain M. Early Administration of Oropharyngeal Colostrum to Extremely Low Birth Weight Infants. *Breastfeed Med*. 2013 Dec;8(6):491-5. PMID: 23805944. PMCID: PMC3868273
19. Coggins SA*, [Wynn JL*](#), Hill ML, Slaughter JC, Ozdas-Weitkamp A, L. Waitman LR, Carnevale RJ, Matta A, Weitkamp JH. Use of a computerized C-reactive protein based sepsis evaluation in the NICU: A five-year experience. *PLoS One*. 2013 Nov 11;8(11):e78602. PMID: 24244325, PMCID: PMC3823853
*co-first authors
20. Vucovich M, Cotton R, Shelton E, Goettel J, Ehinger N, Poole S, Brown N, [Wynn JL](#), Paria B, Slaughter J, Clark R, Rojas M, and Reese J. Amnioglycoside-Mediated Relaxation of the Ductus Arteriosus in Sepsis-Associated PDA. *Am J Physiol Heart Circ Physiol*. 2014 Sep 1;307(5):H732-40. PMID: 24993047, PMCID: PMC4187398
21. Cuenca AG, Joiner DN, Gentile LF, Cuenca AL, [Wynn JL](#), Kelly-Scumpia KM, Scumpia PO, Behrns KE, Efron PA, Nacionales D, Wallet SM, Reeves WH, Mathews CE, Moldawer LL. TRIF-Dependent Innate Immune Activation Is Critical for Survival to Neonatal Gram-Negative Sepsis. *J Immunol*. 2015 Feb 1;194(3):1169-77. PMID: 25548220, PMCID: PMC4297742

22. [Wynn JL](#), Guthrie SO, Wong HR, Lahni P, Ungaro R, Lopez MC, Baker HV, Moldawer LL. *Post-natal age is a critical determinant of the human neonatal host response to sepsis. Mol Med. 2015 Jun 2;21(1):496-504. PMID: 26052715, PMCID: PMC4607623*
23. [Wynn JL](#), Scumpia PO, Stocks BT, Romano-Keeler J, Alrifai MW, Liu JH, Kim AS, Alford CE, Matta P, Weitkamp JH, Moore DJ. Immunosuppressive CD71⁺ cells do not modify neonatal polymicrobial sepsis mortality. *J Immunol. 2015 Aug 1;195(3):1064-70. PMID: 26101326, PMCID: PMC4506905. Featured in "In This Issue" by Editor.*
24. Coggins SA, Weitkamp JH, Grunswald L, Reese J, Walsh W, [Wynn JL](#). *Heart Rate Characteristic index monitoring for blood stream infection in the NICU: A 3-year experience. Arch Dis Child Fetal Neonatal Ed. 2015 Oct 30. PMID: 26518312, PMCID: PMC4851911*
25. Iqbal J, Dufendach K, Wellons JC, Kuba MG, Nickols HH, Gomez OG, [Wynn JL](#). *Virulence Determinants of an Aggressive Escherichia coli isolate causing lethal neonatal meningitis. Infect Dis (Lond). 2016 Jun;48(6):461-6. PMID: 27030919, PMCID: PMC4818964*
26. [Wynn JL](#), Wilson CS, Scumpia PO, Liu J, Zharkikh I, Wong HR, Lahni P, Benjamin JT, Plosa EJ, Weitkamp JH, Hawiger J, Sherwood ER, Moldawer LL, Ungaro R, Baker HV, Lopez MC, McElroy SJ, Colliou N, Mohamadzadeh M, Moore DJ. *Targeting IL-17A attenuates neonatal sepsis mortality induced by IL-18. Proc Natl Acad Sci U S A. 2016 May 10;113(19):E2627-35. PMID: 27114524. PMCID PMC4868456 Featured in Nature Immunology.*
27. Weitkamp JH, Guthrie SO, Wong HR, Moldawer LL, Baker HV, [Wynn JL](#). *Histological chorioamnionitis shapes the neonatal transcriptomic immune response. Early Hum Dev. 2016 Jul;98:1-6. PMID: 27318328, PMCID: PMC4947555*
28. Atkinson SJ, Varisco BM, Sandquist M, Daly MN, Klingbeil L, Kuethe JW, Midura EF, Caldwell CC, Harmon K, Lahni P, Piraino G, Hake P, Zingarelli B, Mortensen JE, [Wynn JL](#), Wong HR. *Matrix metalloproteinase-8 (MMP-8) augments bacterial clearance in juvenile mice. Mol Med. 2016 Aug 8;22. PMID: 27506554, PMCID: PMC5072408*
29. Romano-Keeler J, Azcarate-Peril MA, Weitkamp JH, Slaughter JC, McDonald WH, Meng S, Latuga MS, [Wynn JL](#). *Oral colostrum priming shortens hospitalization without changing the immune-microbial milieu. J Perinatol. 2017 Jan;37(1):36-41. PMID: 27684425, PMCID: PMC5215726*
30. [Wynn JL*](#), Kelly M*, Benjamin DK, Clark R, Greenberg R, Benjamin DK Jr, Smith PB. *Timing of Multi-Organ Dysfunction Among Premature Infants with Fatal Sepsis. Am J Perinatol. 2017 Jun;34(7):633-639. PMID: 27923248, PMCID: PMC5604435*
**co-first authors*
31. Srinivasan L, Page G, Kirpalani H, Murray JC, Das A, Higgins RD, [Wynn JL](#), Cotten CM, Carlo WA, Bell EF, Goldberg RN, Schibler K, Sood BG, Stevenson DK, Stoll BJ, Van Meurs KP, Johnson KJ, McDonald SA, Zaterka-Baxter KM, Kennedy KA, Sánchez PJ, Duara S, Walsh MC, Shankaran S, Korones SB, Finer NN, for the Eunice Kennedy Shriver National Institute of Child Health and Human Development Neonatal Research Network. *Genome Wide Association Study of Sepsis in Extremely Premature Infants. Arch Dis Child Fetal Neonatal Ed. 2017 Sep;102(5):F439-F445. PMID: 28283553. PMCID: PMC5563277*

32. Veach RA, Liu Y, Zienkiewicz J, Wylezinski LS, Boyd K, [Wynn JL](#), Hawiger J. *Survival, Bacterial Clearance and Thrombocytopenia are Improved in Polymicrobial Sepsis by Targeting Nuclear Transport Shuttles Importins $\alpha 5$ and $\beta 1$* . PLoS One. 2017 Jun 19;12(6):e0179468. PMID: 28628637, PMCID: PMC5476269
33. Raymond SL, Lopez C, Baker HV, Larson SD, Sweeney TE, Moldawer LL, [Wynn JL](#). *Unique transcriptomic response to sepsis is observed among patients of different age groups*. PLoS One. 2017 Sep 8;12(9):e0184159. PMID: 28886074, PMCID: PMC5590890
34. Raymond SL, Mathias BJ, Murphy TJ, Rincon JC, López MC, Ungaro R, Ellett F, Jorgensen J, [Wynn JL](#), Baker HV, Moldawer LL, Irimia D, Larson SD. *Neutrophil Function and Transcriptomics in Term and Preterm Neonates*. Transl Res. 2017 Dec;190:4-15. PMID: 28873345, PMCID: PMC5705589
35. Rincon JC, Cuenca AL, Mathias B, Nacionales DC, Ungaro R, Efron PA, [Wynn JL](#), Moldawer LL, Larson SD. *Adjuvant pretreatment with alum protects neonatal mice in sepsis via inflammasome-dependent mechanism*. Clin Exp Immunol. 2018 Mar;191(3):268-278. PMID: 29052227, PMCID: PMC5801503
36. Good M, McElroy SJ, Berger JN, [Wynn JL](#). *Name and Characteristics of National Institutes of Health R01-Funded Pediatric Physician-Scientists: Hope and Challenges for the Vanishing Pediatric Physician-Scientists*. JAMA Pediatr. 2018 Mar 1;172(3):297-299. PMID: 29340570, PMCID: PMC5885833
37. Sweeney, TE*, [Wynn JL](#)*, Cernada M, Serna E, Wong HR, Moldawer LL, Vento M, Khatri P. *Validation of the Sepsis MetaScore for Diagnosis of Neonatal Sepsis*. J Pediatric Infect Dis Soc. 2018 May 15;7(2):129-135. PMID: 28419265, PMCID: PMC5954302
*co-first authors
38. Chang LL, [Wynn JL](#), Pacella MJ, Rossignol CC, Banadera F, Alviedo N, Vargas A, Bennett J, Huene M, Copenhaver N, Sura L, Barnette K, Solomon J, Bliznyuk NA, Neu J, Weiss MD. *Enteral Feeding as an Adjunct to Hypothermia in Neonates with Hypoxic-Ischemic Encephalopathy*. Neonatology. 2018;113(4):347-352. PMID: 29510382
39. Good M, McElroy SJ, Berger JN, Moore DJ, [Wynn JL](#). *Limited achievement of NIH research independence by pediatric K award recipients*. Pediatr Res. 2018 Jun 14. PMID: 29904137, PMCID: PMC6289685
40. Raymond SL, Hawkins RB, Murphy TJ, Rincon JC, Stortz JA, López MC, Ungaro R, Ellett F, Baker HV, [Wynn JL](#), Moldawer LL, Irimia D, Larson SD. *Impact of toll-like receptor 4 stimulation on human neonatal neutrophil spontaneous migration, transcriptomics, and cytokine production*. J Mol Med (Berl). 2018 Jul;96(7):673-684. PMID: 29808244, PMCID: PMC6091213
41. Benjamin JT, Moore DJ, Bennett C, van der Meer R, Royce A, Loveland R, [Wynn JL](#). *IL-1 α and Not IL-1 β Drives IL-1R1-Dependent Neonatal Murine Sepsis Lethality*. J Immunol. 2018 Nov 15;201(10):2873-2878. PMID: 30305325, PMCID: PMC6219910
42. Nielsen DW, Ricker N, Barbieri NL, [Wynn JL](#), Gómez-Duarte OG, Iqbal J, Nolan LK, Allen HK, Logue CM. *Complete Genome Sequence of the Multidrug-Resistant Neonatal Meningitis Escherichia coli Serotype*

Updated 04/06/2022

O75:H5:K1 Strain mcjchv-1 (NMEC-O75). *Microbiol Resour Announc*. 2018 Sep 13;7(10). PMID: 30533615, PMCID: PMC6256591

43. Brook B, Amenyogbe N, Ben-Othman R, Cai B, Harbeson D, Francis F, Liu AC, Varankovich N, Wynn JL, Kollmann TR. *A Controlled Mouse Model for Neonatal Polymicrobial Sepsis*. *J Vis Exp*. 2019 Jan 27;(143). doi: 10.3791/58574. PMID: 30741260.
44. Wynn JL, Polin RA. *A neonatal sequential organ failure assessment score predicts mortality to late-onset sepsis in preterm very low birth weight infants*. *Pediatr Res*. 2020 Jul;88(1):85-90. PMID: 31394566, PMCID: PMC7007331
45. Meegan JE, Shaver CM, Putz ND, Jesse JJ, Landstreet SR, Lee HNR, Sidorova TN, McNeil JB, Wynn JL, Cheung-Flynn J, Komalavilas P, Brophy CM, Ware LB, Bastarache JA. Cell-Free hemoglobin increases inflammation, endothelial apoptosis and microvascular permeability in murine polymicrobial sepsis. *PLoS One*. 2020 Feb 3;15(2):e0228727. PMID: 32012200 PMCID: PMC6996826
46. Brook B, Harbeson D, Shannon C, He D, Francis F, Huang J, Bing C, Ben-Othman R, Varankovich N, Liu A, Bao W, Bjerregaard-Andersen M, Schaltz-Buchholzer F, Sanca L, Golding CN, Lindberg Larsen K, the EPIC HIPC, Wynn JL, Shann F, Aaby P, Stabell-Benn C, Tebbutt S, Amenyogbe N, Kollmann TR. *BCG-induced emergency granulopoiesis provides rapid protection from neonatal sepsis*. *Sci Transl Med*. 2020 May 6;12(542). PMID: 32376769, PMCID: PMC8008103
47. Menon K, Schlapbach LJ, Akech S, Argent A, Chiotos K, Chisti MJ, Hamid J, Ishimine P, Kissoon N, Lodha R, Oliveira CF, Peters M, Tissieres P, Watson RS, Wiens MO, Wynn JL, Sorce LR. *Pediatric Sepsis Definition-A Systematic Review Protocol by the Pediatric Sepsis Definition Taskforce*. *Crit Care Explor*. 2020 Jun 11;2(6):e0123. PMID: 32695992, PMCID: PMC7314341
48. Prelipcean I, Wynn JL, Thompson L, Burchfield DJ, James-Woodley L, Chase P, Barnes CP, Bernier A. *Absence of relationship between serum cortisol and critical illness in premature infants*. *Arch Dis Child Fetal Neonatal Ed*. 2021 Jul;106(4):408-412. PMID: 33541918
49. Fleiss N, Coggins SA, Lewis AN, Zeigler A, Cooksey KE, Walker LA, Husain AN, de Jong B, Wallman-Stokes A, Alrifai MW, Visser D, Good M, Sullivan B, Polin RA, Martin CR, Wynn JL. *Evaluation of the neonatal sequential organ failure assessment and mortality in preterm infants with late-onset infection*. *JAMA Netw Open*. 2021 Feb 1;4(2):e2036518. PMID: 33538825
50. Aziz K, Lavilla O, Wynn JL, Lure AC, Gipson D, de la Cruz D. *Maximum Vasoactive-Inotropic Score and Mortality in Extremely Premature, Extremely Low Birth Weight Infants*. *J Perinatol*. 2021 Sep;41(9):2337-2344. PMID: 33712712
51. Zeigler A, Fairchild K, Ainsworth J, Wynn JL, Sullivan B. *Sepsis and mortality prediction in very low birth weight infants: analysis of HeRO and nSOFA*. *Am J Perinatol*. 2021 May 10. Online ahead of print. PMID: 33971672
52. Wynn JL, Mayampurath A, Carey K, Slattery S, Andrews B, Sanchez-Pinto LN. *Multicenter assessment of the neonatal sequential organ failure score and mortality in the NICU*. *J Pediatr*. 2021 Sep;236:297-300. PMID: 34022247

53. Aziz K*, Lavilla O*, Lure A, Gipson D, de la Cruz D, [Wynn JL](#). *Hourly kinetics of critical organ dysfunction in extremely preterm infants. Accepted and in press. American Journal of Respiratory Critical Care Medicine* 2021. PMID: 34550843
*Co-First authors (listed alphabetically)
54. Barnette BW, Schumacher BT, Armenta RF, [Wynn JL](#), Richardson A, Bradley JS, Lazar S, and Lawrence SM. *Contribution of Concurrent Comorbidities to Sepsis-Related Mortality in Preterm Infants ≤ 32 Weeks of Gestation at an Academic Neonatal Intensive Care Network*. Accepted and in press, *American Journal of Perinatology*. PMID: 34674193
55. Menon K, Schlapbach LJ, Akech S, Argent A, Biban P, Carrol ED, Chiotos K, Jobayer Chisti M, Evans IVR, Inwald DP, Ishimine P, Kissoon N, Lodha R, Nadel S, Oliveira CF, Peters M, Sadeghirad B, Scott HF, de Souza DC, Tissieres P, Watson RS, Wiens MO, [Wynn JL](#), Zimmerman JJ, Sorce LR; Pediatric Sepsis Definition Taskforce of the Society of Critical Care Medicine. Criteria for Pediatric Sepsis-A Systematic Review and Meta-Analysis by the Pediatric Sepsis Definition Taskforce. *Crit Care Med*. 2021 Oct 6. PMID: 34612847
56. Hayes R, Hartnett J, Semova G, Murray C, Murphy K, Carroll L, Plapp H, Hession L, O'Toole J, McCollum D, Roche E, Jenkins E, Mockler D, Hurley T, McGovern M, Allen J, Meehan J, Plötz FB, Strunk T, de Boode WP, Polin R, [Wynn JL](#), Degtyareva M, Küster H, Janota J, Giannoni E, Schlapbach LJ, Keij FM, Reiss IKM, Bliss J, Koenig JM, Turner MA, Gale C, Molloy EJ; Infection, Inflammation, Immunology and Immunisation (I4) section of the European Society for Paediatric Research (ESPR). *Pediatr Res*. 2021 Nov 6. doi: 10.1038/s41390-021-01749-3. Online ahead of print. PMID: 34743180
57. Bembea MM, Agus M, Akcan-Arikan A, Alexander P, Basu R, Bennett TD, Bohn D, Brandão LR, Brown AM, Carcillo JA, Checchia P, Cholette J, Cheifetz IM, Cornell T, Doctor A, Eckerle M, Erickson S, Farris RWD, Faustino EVS, Fitzgerald JC, Fuhrman DY, Giuliano JS, Williams K, Gaies M, Gorga SM, Hall M, Hanson SJ, Hartman M, Hassinger AB, Irving SY, Jeffries H, Juvet P, Kannan S, Karam O, Khemani RG, Kissoon N, Lacroix J, Laussen P, Leclerc F, Lee JH, Leteurtre S, Lobner K, McKiernan PJ, Menon K, Monagle P, Muszynski JA, Odetola F, Parker R, Pathan N, Pierce RW, Pineda J, Prince JM, Robinson KA, Rowan CM, Ryerson LM, Sanchez-Pinto LN, Schlapbach LJ, Selewski DT, Shekerdemian LS, Simon D, Smith LS, Squires JE, Squires RH, Sutherland SM, Ouellette Y, Spaeder MC, Srinivasan V, Steiner ME, Tasker RC, Thiagarajan R, Thomas N, Tissieres P, Traube C, Tucci M, Typpo KV, Wainwright MS, Ward SL, Watson RS, Weiss S, Whitney J, Willson D, [Wynn JL](#), Yeyha N, Zimmerman JJ. Pediatric Organ Dysfunction Information Update Mandate (PODIUM) Contemporary Organ Dysfunction Criteria: Executive Summary. *Pediatrics*. 2022 Jan 1;149(Supplement_1):S1-S12. doi: 10.1542/peds.2021-052888B. PMID: 34970673
58. Schlapbach LJ, Weiss SL, Bembea MM, Carcillo JA, Leclerc F, Leteurtre S, Tissieres P, [Wynn JL](#), Zimmerman J, Lacroix J. Scoring Systems for Organ Dysfunction and Multiple Organ Dysfunction: The PODIUM Consensus Conference. *Pediatrics*. 2022 Jan 1;149(Supplement_1):S23-S31. doi: 10.1542/peds.2021-052888D. PMID: 34970683
59. Stevens J, Steinmeyer S, Bonfield M, Wang T, Gray J, Lewkowich I, Xu Y, Du Y, Guo M, [Wynn JL](#), Zacharias W, Salomonis N, Miller L, Chougnet C, Hartigan O'Connor DH, and Deshmukh H. *Balance between protective and pathogenic immune responses 1 to pneumonia in the neonatal lung enforced by gut microbiota*. Revision under review, *Science Translational Medicine*.

60. Lewis AN, de la Cruz, D, [Wynn JL](#), Yakah W, Frazer LC, Martin CR, Yang H, Itriago E, Unger J, Hair AB, Miele J, Sullivan BA, Husain A, Good M. *Evaluation of the Neonatal Sequential Organ Failure Assessment and Mortality Risk in Preterm Infants With Necrotizing Enterocolitis*. Revision under review.

Invited Reviews (peer reviewed):

1. [Wynn JL](#), Neu J, Moldawer LL, Levy O. Potential of Immunomodulatory Agents for Prevention and Treatment of Neonatal Sepsis. *J Perinatol*. 2009 Feb;29(2):79-88. PMID: 18769381. PMCID: PMC3974913.
2. Kataria, J, Li, N, [Wynn, JL](#), Neu, J. Probiotic Microbes: Do They Need To Be Alive To Be Beneficial? *Nutr Rev*. 2009 Sep;67(9):546-50. *Nutrition Reviews*, 2009. PMID: 19703261
3. [Wynn JL](#), Burchfield DJ, Saxonhouse MA. Is CRP useful in determining early-onset neonatal sepsis? *Contemporary Pediatrics*, 2009. October;26(10):52-57.
4. [Wynn JL](#), Cornell TT, Wong HR, Shanley TP, Wheeler DS. The host response to sepsis and developmental impact. *Pediatrics*, 2010 May;125(5):1031-41. PMCID: PMC2894560
5. [Wynn JL](#), Levy O. Role of Innate Host Defenses in Susceptibility to Early Onset Neonatal Sepsis. *Clin Perinatol*. 2010 Jun;37(2):307-37. PMCID: PMC2891962
6. [Wynn JL](#), Wong HR. Pathophysiology and Treatment of Septic Shock in Neonates. *Clin Perinatol*. 2010 Jun;37(2):439-79. PMCID: PMC2891980
*This manuscript is listed on MD consult as a recommended septic shock resource (criteria described are "most current, relevant, clinically useful content").
7. Cornell TT, [Wynn JL](#), Shanley TP, Wheeler DS, Wong HR. Mechanisms and regulation of the gene expression response to sepsis. *Pediatrics*, 2010. June;125:1248-58. PMCID: PMC2892227
8. [Wynn JL](#), Seed PC, Cotten CM. Does IVIg administration yield improved immune function in very premature neonates? *J Perinatol*. 2010 Oct;30(10):635-42. PMID: 20054335
9. Cuenca AG, [Wynn JL](#), Moldawer LL, Levy O. Role of Innate Immunity in Neonatal Infection. *Am J Perinatol*. 2013 Feb;30(2):105-12. PMID: 23297181. PMCID: PMC3959733.
10. Romano-Keeler J, [Wynn JL](#), Maron JL. Great Expectorations: The Potential of Salivary "Omic" Approaches in Neonatal Intensive Care. *J Perinatol*. 2014 Jan 9. PMID: 24406743, PMCID: PMC3962691.
11. Levy O and [Wynn JL](#). A Prime Time for Trained Immunity: Innate immune memory in Newborns and Infants. *Neonatology*. 2013 Dec 18;105(2):136-141. PMID: 24356292. PMCID: PMC3946366.
12. [Wynn JL](#), Wong HR, Shanley TP, Bizzarro M, Saiman L, Polin RA. Time for a neonatal-specific consensus definition for sepsis. *Pediatr Crit Care Med*. 2014 Jul;15(6):523-8. PMID: 24751791, PMCID: PMC4087075.

Updated 04/06/2022

13. Coggins SA, Wynn JL, Weitkamp JH. Infectious causes of necrotizing enterocolitis. *Clin Perinatol*. 2015 Mar;42(1):133-54. PMID: 25678001, PMCID: PMC4328138
14. Benitz WE, Wynn JL, Polin RA. Reappraisal of Guidelines for Management of Neonates with Suspected Early-Onset Sepsis. *J Pediatr*. 2015 Apr;166(4):1070-4. PMID: 25641240, PMCID: PMC4767008
15. Wynn JL. *Defining Neonatal Sepsis*. Current Opinion in Pediatrics. *Curr Opin Pediatr*. 2016 Apr;28(2):135-40. PMID: 26766602, PMCID: PMC4786443
16. Raymond SL, Stortz JA, Mira JC, Larson SD, Wynn JL, Moldawer LL. Immunological Defects in Neonatal Sepsis and Potential Therapeutic Approaches. *Front Pediatr*. 2017 Feb 7;5:14. PMID: 28224121, PMCID: PMC5293815
17. Raymond SL, Rincon J, Wynn JL, Moldawer LL, Larson SD. *Impact of Early Life Exposures to Infections, Antibiotics, and Vaccines*. *Front Immunol*. 2017 Jun 23;8:729. PMID: 28690615, PMCID: PMC5481313
18. Lawrence S, Ruoss JL, Wynn JL. IL-17 in Neonatal Health and Disease. *Am J Reprod Immunol*. 2018 May;79(5):e12800. PMID: 29243317, PMCID: PMC6051706
19. Lawrence S, Wynn JL. Chorioamnionitis, IL-17A, and Fetal Origins of Neurologic Disease. *Am J Reprod Immunol*. 2018 May;79(5):e12803. PMID: 29271527, PMCID: PMC5966827
20. Collins A, Weitkamp JH, Wynn JL. Why are newborns at increased risk of infection? *Arch Dis Child Fetal Neonatal Ed*. 2018 Jan 30. PMID: 29382648, PMCID: PMC6013388
21. Nolan LW, Wynn JL, Good M. Exploring Clinically-Relevant Experimental Models of Neonatal Shock and Necrotizing Enterocolitis. 2020 May;53(5):596-604. *Shock*. PMID: 31977960
22. McGovern M, Giannoni E, Kuester H, Turner MA, van den Hoogen A, Bliss JM, Koenig JM, Keij FM, Mazela J, Finnegan R, Degtyareva M, Simons SHP, de Boode WP, Strunk T, Reiss IKM, Wynn JL, Molloy EJ; Infection, Inflammation, Immunology and Immunisation (I4) section of the ESPR. Challenges in developing a consensus definition of neonatal sepsis. *Pediatr Res*. 2020 Mar 3. PubMed PMID: 32126571.
23. Weiss SL, Carcillo J, Leclerc F, Leteurtre S, Schlapbach LJ, Tissieres P, Wynn JL, Lacroix J, on behalf of the Pediatric Organ Dysfunction Information Update Mandate (PODIUM) Group. *Refining the Pediatric Multiple Organ Dysfunction Syndrome*. *Pediatrics*. 2022 Jan 1;149(Supplement_1):S13-S22. doi: 10.1542/peds.2021-052888C. PMID: 34970671

Book Chapters:

1. Wynn JL, Saxonhouse MA, Sleasman JW. *Immunodeficiency Diseases of the Neonate*. **Neonatal Hematology**. 2nd Edition, De Alarcon, Werner & Christensen: Editors. Cambridge University, 2012.
2. Wynn JL, Neu J. *The Neonatal Gastrointestinal Tract as a Conduit to Systemic Inflammation and Developmental Delays*. **Gastroenterology and Nutrition: Neonatology Questions and Controversies**, 2nd Edition: Neu: Editor, 2012.

Updated 04/06/2022

3. [Wynn JL](#), Hazelzet JA, Shanley TP, Wong HR, Wheeler DS. Sepsis. **Pediatric Critical Care Medicine: Basic Science and Clinical Evidence**. 2nd Edition. *Wheeler, Shanley, & Wong*: Editors. 2014.
4. [Wynn JL](#), Wong HR. *Pathophysiology of Neonatal Sepsis*. **Fetal and Neonatal Physiology**, 5th Edition. *Polin, Abman, Benitz, and Rowitch*: Editors. 2016.
5. Ruoss JL, [Wynn JL](#). Biomarkers in the Diagnosis of Neonatal Sepsis. **Infectious Disease and Pharmacology: Neonatology Questions and Controversies**. 3rd Edition: Benitz, Smith, Polin: Editors, 2016.
6. [Wynn JL](#). *Pathophysiology of Neonatal Sepsis*. **Fetal and Neonatal Physiology**, 6th Edition. *Polin, Abman, Benitz, and Rowitch*: Editors. 2020.
7. Kin-Chang J, [Wynn JL](#), Saxonhouse MA, Sleasman JW. *Immunodeficiency Diseases of the Neonate*. **Neonatal Hematology**. 3rd Edition, De Alarcon, Werner & Christensen: Editors. Cambridge University, 2020.
8. Lawrence S, [Wynn JL](#), Gordon S. Bacterial Sepsis and Meningitis. **Remington & Klein's Infectious Disease of the Fetus and Newborn Infant**. 9th Edition.
9. Gordon S, [Wynn JL](#), Lawrence S. Bacterial Meningitis. **Remington & Klein's Infectious Disease of the Fetus and Newborn Infant**. 9th Edition.

Invited Editorials:

1. [Wynn JL](#). *TLRs, SNPs, and VLBWs: Oh My! J Perinatol*. 2013 Oct;33(10):745-7. PMID: 24071961, PMCID: PMC3974913.
2. Bastarache JA, [Wynn JL](#), Ware LB. *Fanning the fire: Can methemoglobin enhance neutrophil activation? EBioMedicine*. 2015 Feb 2;2(3):184-185. PMID: 26137557, PMCID: PMC4485487.
3. Bliss JM, [Wynn JL](#). *Editorial: The Neonatal Immune System: A Unique Host-Microbial Interface*. *Front Pediatr*. 2017 Dec 21;5:274. PMID: 29312907, PMCID: PMC5742610.
4. [Wynn JL](#), Polin RA. *Progress in the management of neonatal sepsis: the importance of a consensus definition*. *Pediatr Res*. 2018 Jan;83(1-1):13-15. PMID: 29019470.
5. [Wynn JL](#). *Early onset and hospital acquired neonatal sepsis associated with high mortality*. *J Pediatr*. 2019 Jan;204:320-323. PMID: 30579470.
6. [Wynn JL](#). *Prolonged early antimicrobials in ELBWs: too much for too little*. *Pediatr Res*. 2019 Mar 5. doi: 10.1038/s41390-019-0360-5. PMID: 30836378.
7. Lavoie PM, Popescu CR, Molyneux EM, [Wynn JL](#), Chiume M, Keitel K, Lufesi N, Levine GA, Ansermino JM, Kissoon N. *Rethinking management of neonates at risk of sepsis*. *Lancet*. 2019 Jul 27;394(10195):279-281. PMID: 31354128.
8. Bearer C, Agostoni C, Anand KJS, Ambalavanan N, Bhandari V, Bliss JM, Bloomfield F, Bonifacio SL, Buhimschi I, Cilio MR, Coppes M, Czinn SJ, El-Khuffash A, Embleton N, Felderhoff-Müser U, Ferriero

Updated 04/06/2022

DM, Florin T, Fuentes-Afflick E, Gardner W, Gospe SM Jr, Gunn A, Gressens P, Guissani D, Haiden N, Hauptman M, Kim KS, Klebanoff M, Lachman P, Lanphear B, Ozen S, Roehr C, Roland D, Rosenblum N, Schwarz M, Staiano A, Stroustrup A, Valente EM, Wilson-Costello D, [Wynn JL](#), Molloy E. *Toward the elimination of bias in Pediatric Research*. *Pediatr Res*. 2019 Sep 18. doi: 10.1038/s41390-019-0583-5. PMID: 31533126.

9. Molloy EJ, [Wynn JL](#), Bliss J, Koenig JM, Keij FM, McGovern M, Kuester H, Turner MA, Giannoni E, Mazela J, Degtyaeva M, Strunk T, Simons SHP, Janota J, Plotz FB, van den Hoogen A, de Boode W, Schlapbach LJ, Reiss IKM; on behalf of the Infection, Inflammation, Immunology and Immunisation (I4) section of the ESPR. *Neonatal sepsis: Need for consensus definition, collaboration and core outcomes*. *Pediatr Res*. 2020 Mar 19. PMID: 32193517
10. [Wynn JL](#). *Application of metabolomics to neonatal meningitis*. *Pediatr Res*. 2020 May 12. PMID: 32396924

Podcasts:

1. Time for a neonatal-specific consensus definition for sepsis. *Pediatr Crit Care Med*. 2014.
<http://www.sccm.org/Communications/iCritical-Care/Pages/iCritical-Care.aspx>
This podcast is one of twelve listed on the Surviving Sepsis Campaign website among the podcasts with “thought leaders”.
<http://www.survivingsepsis.org/Resources/Pages/Media.aspx>

Press releases:

1. Commentary in *Science*, 2014: <https://www.science.org/doi/abs/10.1126/science.345.6204.1550>
2. PNAS manuscript, 2016: <https://ufhealth.org/news/2016/blocking-protein-blood-may-prevent-sepsis-premature-infants>
3. PNAS manuscript, 2016: <http://news.vanderbilt.edu/2016/06/vumc-researchers-seek-to-crack-the-code-of-neonatal-sepsis/>
4. PLoS One manuscript, 2017: <https://news.vanderbilt.edu/2017/06/22/vu-scientists-report-a-way-to-calm-the-sepsis-storm/>
5. JAMA Pediatrics manuscript, 2018: <https://medicalresearch.com/pediatrics/number-of-pediatric-physician-scientists-shrinking-remaining-most-high-ranking-academic-males/39341/>
6. JAMA Pediatrics manuscript, 2018: <https://medicine.wustl.edu/news/pediatric-physician-scientists-struggle-funding/>
7. Hot Topics in Neonatology, <https://www.youtube.com/watch?v=ExG6xUOP5dg>
8. UF Health 2017 Pediatric Progress Report features Wynn laboratory, 2018: <https://indd.adobe.com/view/4251539c-9bf7-49e5-a96d-b26d02a8fa47>
9. Commentary in *Scientific American*, 2019: <https://www.scientificamerican.com/article/as-scientists-probe-the-mystery-of-how-newborns-develop-immunity-order-rises-from-the-chaos/>

Presentations:

- Invited Speaker: **Boston Children’s Hospital**. “Toll-like receptor mediated augmentation of murine neonatal sepsis survival”, April 2007
- Invited Speaker: **6th annual North Carolina Dialogues in Neonatal-Perinatal Medicine**. “Developmental immunology” and “The Newborn’s immune system”, April 2009
- Invited Speaker: **NIH/NIAID Special Workshop: “Challenges in Infant Immunity”**, June 2010

Updated 04/06/2022

- Visiting Professor: **University of Michigan**, Mott Children's Hospital, Ann Arbor MI. *"Murine and Human neonatal host response to sepsis"*, October 2010
- Visiting Professor: **Cincinnati Children's Hospital**, Cincinnati OH. Immunology Seminar. *"Neonatal Host Response to Sepsis"*, April 2011
- Invited Chair: **PAS Session Chair 2011**: *"Elucidating Host Susceptibility to Infection"*. Denver CO. **PAS Session Chair 2015**: *"Time for a Neonatal-Specific Consensus Definition for Sepsis"*.
- Visiting Professor: **Vanderbilt University**, **Monroe Carell Jr.** Children's Hospital at Vanderbilt University, Nashville TN. *"Sepsis and the Host Immune Response in Murine and Human Neonates"*, November 2011
- Invited Speaker: **Specialty Review in Neonatology/Perinatology**. *"Neonatal Immunology"*, Annually; 2011-**present**.
- Invited Speaker: **IPOKRATES**, Lisbon, Portugal: *Infectious Diseases and Immunologic Disorder in the Newborn*. Speakers-Richard Polin, Larry Stanberry, Kenneth Alexander and James L. Wynn. *"Innate Immune Function in Neonates"*, *"Adaptive Immune Function in Neonates"*, *"The Neonatal Host Response to Sepsis"*, *"Vaccine responses in Neonates"*, *"IVlg in preterm Neonates"* October 2012
- Visiting Professor: **Columbia University**, Morgan Stanley Children's Hospital. Pediatric Research Conference/Neonatal grand rounds. *"Neonatal Host Immune Response to Sepsis: Back to Basic Science."* *"Interventions Targeting the Neonatal Host Immune Response to Sepsis."* May 2013
- Invited Speaker: **Gerber Foundation**, Annual Board of Directors Meeting. *"Gene expression profiling with neonatal sepsis."* August 2013
- Visiting Professor: **University of Florida**, Research Seminar, July 2014
- Visiting Professor: **University of Iowa**, Research Seminar, October 2014
- Invited Speaker: **North American Saliva Symposium**. *"Effects of Early Oral Colostrum Priming on Salivary Antimicrobial Peptides in Preterm Infants."* October 2014
- Visiting Professor: **Yale University**, Research Seminar, December 18, 2014
- Visiting Professor: **University of South Florida**, Division of Neonatology Grand Rounds, December 17, 2014
- Visiting Professor: **Stanford University**, Pediatric Grand Rounds, February 13, 2015
- Invited Speaker: **IPOKRATES**, Bangalore, India. *Infectious Diseases and Immunologic Disorders in the Newborn*. March 2015
- Invited Speaker: **Invited PAS Program Session and speaker 2015**. *"Time for a Neonatal-Specific Consensus Definition for Sepsis"*.
- Invited Speaker: **Shock Society**, **38th Annual Conference on Shock, Training Neonatal Immunity**, June 2015
- Visiting Professor: **Johns Hopkins University**, High Risk Obstetrical Conference, November 2015.
- Invited Speaker: **27th Annual Florida Association for Neonatal Nurse Practitioners Clinical Symposium and Update**, 2016.
- Invited Speaker: **Advances in Neonatology and Pediatrics**. Hyderabad, India, 2017
- Invited Speaker: **NeoFest**, 2017. Cincinnati Children's Hospital. 2017
- Invited Speaker: **PAS Session**, 2017. *"Neonatal Immunity, Sepsis, and Immunotherapy"*
- Invited Speaker: **90th Perinatal & Developmental Symposium (AAP Section on Perinatal Pediatrics)**, 2017
- Invited Speaker: **Columbia University**, Morgan Stanley Children's Hospital. September 2017
- Invited Speaker: **American Academy of Blood Banks meeting**, 2017

Updated 04/06/2022

Invited Speaker:	Precision Vaccines meeting, 2017
Invited Speaker:	Hot Topics in Neonatology, 2017
Visiting Professor:	Draper, November 2017
Invited Speaker:	AAP NeoPREP®. "Bacterial infections" and "Neonatal Immunology", 2018.
Invited Speaker:	Specialty Review in Neonatology/Perinatology. "Neonatal Immunology", "Neonatal Bacterial infections", "Neonatal Viral Infections", 2018
Invited Speaker:	Columbia University, Morgan Stanley Children's Hospital. 2018.
Invited Speaker:	Sepsis: Challenging Dogmas to Forge Healthy Paths. Vancouver, BC, May 3rd 2018. How Do We Define Sepsis?
Invited Speaker:	PAS Session, 2018. "The Inflammation Superhighway: Tolls, Signals and Pathways"
Visiting Professor:	Boston Children's Hospital, Harvard University, 2018. Research Seminar.
Invited Speaker:	Gordon Research Conference on Lasers in Medicine and Biology, July 11, 2018
Invited Speaker:	St. Louis Children's Hospital, Molecular Medicine Conference, Washington University, September 2018
Invited Speaker:	St. Louis Children's Hospital, Pediatric Grand rounds, Washington University, September 2018
Visiting Professor:	Tufts Floating Hospital for Children, October 18, 2018
Invited Speaker:	Medical University of South Carolina, Neonatal Pharmacology Conference, November 2018
Visiting Professor:	Medical University of South Carolina, Research Seminar, November 2018
Invited Speaker:	Medical University of South Carolina, Pediatric Grand Rounds, November 2018
Invited Speaker:	2nd World Congress on Maternal, Fetal and Neonatal Medicine, London, UK. 2019
Invited Speaker:	University of Virginia. Seminar. Center for Advanced Medical Analytics, March 2019
Invited Speaker:	University of California, San Diego, Pediatric Grand Rounds, May 2019
Invited Speaker:	Shock Society, 42nd Annual Conference on Shock, June 2019
Invited Speaker:	James Leon Haywood Memorial Pediatric Grand Rounds, University of Alabama, Birmingham. October 2019
Invited Speaker:	Advances and Controversies in Neonatal-Perinatal Medicine, Nashville, November 2019
Visiting Professor:	Cincinnati Children's Hospital, Neonatal Grand Rounds, 2020
Invited Speaker:	Jerry Elliott Memorial Lecture, 44th Southeastern Conference on Perinatal Research, American Academy of Pediatrics Section on Neonatal-Perinatal Medicine, 2020
Invited Speaker:	AAP NeoPREP® "Bacterial and Viral infections", "Neonatal Immunology", 2020
Invited Speaker:	Specialty Review in Neonatology/Perinatology. "Neonatal Immunology", "Neonatal Bacterial infections", "Neonatal Viral Infections", 2022
Invited Speaker:	American Thoracic Society, Trained immunity, 2020
Invited Speaker:	University of California, Los Angeles, Neonatal Research Conference, November 2020
Visiting Professor:	University of Iowa, Pediatric Grand Rounds, December 2020

Updated 04/06/2022

Visiting Professor: **Emory University, Children's Hospital of Atlanta**, Neonatal Research Conference, 2020

Invited Speaker: **Children's Hospital of Philadelphia**, Neonatal Research Conference, 2021

Invited Speaker: **NEO: The Conference for Neonatology**, 2021, Hematology of Sepsis

Invited Speaker: **4th jENS Congress**, Athens, Greece, September 2021

Invited Speaker: **Keystone Symposia**, "Maternal-Fetal Newborn Immunity", virtual October 2021

Invited Speaker: **AAP NeoPREP®** "*Bacterial and Viral infections*", "*Neonatal Immunology*", 2022

Invited Speaker: **Specialty Review in Neonatology/Perinatology**. "*Neonatal Immunology*", "*Neonatal Bacterial infections*", "*Neonatal Viral Infections*", 2022

Invited Speaker: **5th Argentine Neonatal Congress**, May 2022

Institutional: **Duke University**, Pediatric Grand Rounds, 2010

Vanderbilt University, Pulmonology/Critical Care Grand Rounds, 2013

Vanderbilt University, Biomedical Photonics Group, 2014

Vanderbilt University, Department of Pediatrics Research Conference, 2014

University of Florida, Department of Pathology, Immunology, and Experimental Medicine Grand rounds, 2015

University of Florida, Department of Pediatrics, Fellow's research curriculum, 2016

University of Florida, Department of Pediatrics, Pediatric Grand Rounds, 2019