This document contains all publications and abstracts related to work accomplished during fellowship, as well as grants from past fellows, for 2010-2016. The names of the fellows are underlined. Rev 7/6/2016

**JOURNAL ARTICLES**

**Original Peer-Reviewed Manuscripts**

**2016**


**Leed DD**, Lal CV, Persad EA, Lowe W, Schwarz AM, Awasthi N, Schwarz RE, Schwarz MA. EMAP II Mediates Macrophage Migration in the Development of Hyperoxia-Induced Lung Disease of Prematurity. Ajrcmb, in press


**2015**


**Lopez-Medina E**, **Cantey JB**, Sánchez PJ. The Mortality of Neonatal Herpes Simplex Virus Infection. The Journal of pediatrics 04/2015; DOI: 10.1016/j.jpeds.2015.03.004


**Sen SK**, **Mayor R**, Engle WD, Blumenschein SD, Brion LP. Index of suspicion. Hyperbilirubinemia without jaundice in a neonate. NeoReviews, Vol.16 No.8 August 2015 e497-498
2014


Cantey JB, Wozniak PS, Sánchez PJ. Prospective Surveillance of Antibiotic Use in the Neonatal Intensive Care Unit: Results from the SCOUT Study. The Pediatric Infectious Disease Journal. PMID: 25191849


Sunderen NC, Vongpatanasin W, Boggan BM, Tanigaki K, Yuhanna IS, Chambliss KL, Mineo C, Shaul PW. IgG Receptor FcγRIIB Plays a Key Role in Obesity-Induced Hypertension. Hypertension. 2014 Nov PMID:25368023

2013

Bennett KM, Afanador MD, Lal CV, Xu H, Persad E, Legan SK, Chenaux G, Dellinger


Stumpf K, Thompson T, Sánchez PJ. Rotavirus Vaccination of Very Low Birth Weight Infants at Discharge From the NICU. Pediatrics. 2013 Sep;132(3):e662-5

Reviews

2015


Tanigaki K, Sundgren N, Khera A, Vongpatanasin W, Mineo C, Shaul PW. Feγ

2014


Mir IN, Chalak LF. Serum biomarkers to evaluate the integrity of the neurovascular unit. Early Human Development, 2014 Oct;90(10):707-11.

Chapters

2014


2013


PRESENTED ABSTRACTS

2016


DeVries LB, Jaleel MA, Kapadia VS, Brown LS, Heyne R, Brion LP. "Relationship Between Pulmonary Hypertension and Outcomes among Infants with Bronchopulmonary Dysplasia Who Undergo Surgery." Poster presentation at the Southern Society for Pediatric Research, New Orleans, LA. 2/18/16


Sen S. The Role of Cyclin Dependent Kinase Inhibitor p27Kip1 in Regulation of Neonatal Cardiomyocyte Proliferation. Platform presentation at PAS, Baltimore, MD, 5/03/2016

Sen S, The Role of Cyclin Dependent Kinase Inhibitor p27Kip1 in Regulation of


2015


Cantey JB. Screening for Neonatal Herpes Simplex Virus (HSV) Infection with Serum Alanine Aminotransferase (ALT): How Good Is It? Poster presentation at Pediatric Academic Societies Annual Meeting, San Diego, CA, 4/28/15


Cantey JB. Is Prolonged Rupture of Membranes a Risk Factor for Early-Onset Sepsis in Preterm Infants? Poster presentation at Pediatric Academic Societies Annual Meeting, San Diego, CA, 4/28/15


Moallem M, Talavera MM, Cantey JB, Kandefer S, Stoll BJ, Sanchez PJ, and the NICHD Neonatal Research Network (NRN). Twelve Years of Bloodstream Infections (BSI) and Meningitis (M) in Preterm Infants with Necrotizing Enterocolitis (NEC): The NEC-BSI
Study. Presentation at Pediatric Academic Societies Annual Meeting, San Diego, CA, April 2015


Weydig HM, Jaleel MA, Frost M, Brion LP. Parkland QI Bundle: Reducing Mortality and Morbidity in Extremely Low Gestational Age Neonates (ELGANs) at Parkland. Poster presentation at AAP National Conference and Exhibition, Washington DC, 10/23/2015

DeVries LB, Jaleel MA, Kapadia VS, Heyne R, Brion LP. "Relationship Between Pulmonary Hypertension and Outcomes among Infants with Bronchopulmonary Dysplasia Who Undergo Surgery. Platform presentation at the AAP Section on Neonatal-Perinatal Medicine 22nd South Central Conference on Perinatal Research, Austin, TX. 10/8/2015

Weydig HM. Reducing Mortality and Morbidity in Extremely Low Gestational Age Neonates (ELGANs) at Parkland. Poster presentation at SECTION ON NEONATAL-PERINATAL MEDICINE 87th Perinatal & Developmental Medicine Symposium “Drug Development for Pregnant Women and their Infants”. Delray Beach Marriott, Delray Beach Florida, November 18-21, 2015

2014


Cantey JB, Wozniak PS, Sánchez PJ. The Conundrum of Pneumonia Treatment in the NICU: Can Variation Inform Antibiotic Stewardship? Poster presentation at Pediatric
Academic Societies Annual Meeting 2014

DeVries, Kakkilaya V. Oxygen Targeting for Preterm Infants. Oral presentation at Levine Children’s Hospital Quality Improvement Coaching Conference (LCH QuIICC), Charlotte, NC, September 17-19, 2014


Lal CV, Liao J, Cheong N, Longoria C, Cuna A, M. Faye-Petersen O, Kelly DR, Ambalavanan N, Savani RC. CD44 is necessary for increased lung IL1β/TGFβ and decreased alveolarization in mice exposed to neonatal hyperoxia, and is elevated in preterm infants with BPD. Platform presentation at Pediatric Academic Societies Annual Meeting, Vancouver, May 4, 2014


Weydig H. Improving Delivery Room Endotracheal Tube Placement in Neonates <29 weeks Gestational Age. Presentation at Levine Children’s Hospital Quality Improvement Coaching Conference (LCH QuICC), Charlotte, NC, September 17-19, 2014

White NO, Cantey JB, Dulaurier M, Mejias A, Sanchez PJ. Management of newborns delivered to women with active genital herpes simplex virus (HSV) lesions: is current guidance optimal? Platform presentation at Pediatric Academic Societies Annual Meeting 2014


Lal CV, Awasthi N, Xu H, Schwarz AM, Savani RC, Schwarz Re, Schwarz MA. Endothelial Monocyte Activating Polypeptide II (EMAP II) Induces Bronchopulmonary
Dysplasia (BPD)-Like Phenotype in Uninjured Mice, and Hyperoxia-induced BPD is Improved by an EMAP II Blocking Antibody. Platform Presentation at Pediatric Academic Societies Annual Meeting, 2013 (Washington DC)


Levan J, Brion LP, Wrage LA, on behalf of the NICHD NRN. Changes in therapy and outcomes associated with the SUPPORT Trial. Poster presentation at PAS, Washington DC, May 5, 2013


Motta CL, Wyckoff MH. Does NRP Need a New Rule for Appropriate Endotracheal Tube (ETT) Depth for Newborns < 1000g? Poster Presentation at Pediatric Academic Societies Annual Meeting, 2013 (Washington DC)

Motta CL, Scott W, Mahony L, Koch J, Wyckoff MH, Reisch J, Brion LP. Association of Congenital Heart Disease and Necrotizing Enterocolitis in Preterm Infants.
  • Poster presentation at 82nd Perinatal & Developmental Medicine Symposium “The Microbiome in Perinatal Health and Disease,” Aspen, Colorado, June 6-9, 2013
  • Poster presentation at American Academy of Pediatrics (AAP) National Conference and Exhibition, Orlando, FL, 10/25/13
  • Platform presentation at Section on Perinatal Pediatrics, 20th South Central Conference on Perinatal Research, Lakeway Resort, Austin, Texas, 10/29/13


INVITED PRESENTATIONS AND WORKSHOPS

2016

Scottsdale, AZ, April 2016.


2015


UTSW COMMITTEES

Joseph B Cantey:
2013-2015 Parkland Memorial Hospital, Infection Prevention Committee
2013-2014 CMC Clinical practice guideline committee: Pancreatitis

Heather Weydig:
2014-16 Representative of the subspecialty trainees in the Department of Pediatrics on the GME Residency Advisory Committee (RAC)

Lindsay DeVries
2015-16 Housestaff Wellness and Health Initiative 2015-16

Valerie Blanco
2015-16 Complement and Addition in Program (CAP) Subcommittee of the GMEC

EXTRAMURAL COMMITTEES

Joseph B Cantey:
2014-15 Society for Healthcare Epidemiology in America (SHEA) Pediatric Steering Committee

John Sparks:
2010-present Fetus and Newborn Committee, Texas Pediatric Society

Shawndip Sen:
2014-16 District VII Fellow TECaN Representative
2014-16 Participation in the AAP Section on Young Physicians Leadership Alliance (YPLA)

EDITORIAL RESPONSIBILITIES

Joseph B Cantey:

Board member Pediatric Infectious Disease Society – Publications Committee
AWARDS, HONORS AND GRANTS

Awards:

- 2016: Parkland Health & Hospital System 2016 Fellow Award of Excellence in Patient Care: Lisa Scheid

- 2016: American Academy of Pediatrics (AAP) Young Physicians’ Leadership Alliance (YPLA) through the Section on Early Career Physicians (SOECP): Heather Weydig

- 2016 David G. Nathan Research Award, SPR: Shawndip Sen from the SPR for his work on “The role of cyclin dependent kinase inhibitor p27-kip1 in regulation of cardiomyocyte proliferation”

- 2016 SSPR/APA Trainee Travel Award: Shawndip Sen

- Young Investigator Award, American Academy of Pediatrics (AAP): Reina Mayor
  Maternal Diet Impairs Fetal Lung Development, 2014


- Pediatric Infectious Disease Society: PIDS Antimicrobial Stewardship Award: Joseph Cantey 2014

- Southern Society of Pediatric Research: Finalist for the Basic Science Young Investigator Award: Lal CV 2013

- Society for Pediatric Research (SPR) and the SPR Fellow Research Award Committee: Fellow Basic Research Award: Lal CV; for abstract “Dysplasia (BPD)-Like Phenotype in Uninjured Mice, and Hyperoxia-Induced BPD Is Improved by an EMAP II Blocking Antibody” 2013

- Young Investigator Award, American Academy of Pediatrics (AAP): Charitharth V. Lal
  Role of EMAP II in the pathogenesis of BPD in a neonatal mouse model. 2012

- Annual Senior Fellows’ Research Day Awards, UTSW, Department of Pediatrics:
  - Sundgren N: Best Abstract and Presentation, 2011
  - LeVan J: Best Poster Presentation, 2012
  - Reina Mayor: Best Abstract and Presentation, 2014


- President's Presenters Award, Society for Gynecologic Investigation, sponsored by Wyeth: LaKeitha Foster. Maternal progesterone treatment retards labor in mice by antagonizing inflammatory response pathways and SP−A secretion by the fetal lung. 2008
UTSW Neonatal-Perinatal Fellow Scholarship

- **Travel Awards:**
  - Cantey JB: PAS Travel Awards Program for Young Investigator’s 2015
  - Charitharth (Vivek) Lal: PAS Travel Awards Program for Young Investigator’s 2014
  - Charitharth (Vivek) Lal: AAP Neo Conference 2014
  - Charitharth (Vivek) Lal: AAP (NCE SOPPe Travel Grant) 2013
  - Charitharth (Vivek) Lal: AAP (NCE SOPPe Travel Grant) 2012
  - Jenitha Jeyaraj: PAS 2012
  - Joshua Frankfurt: PAS Travel Award awarded by PAS CTSA Consortium- Child Health Oversight Committee (CC-CHOC), 2012
  - Mari Afanador: PAS 2011
  - Vishal Kapadia: PAS 2010

- **Fellows’ Section of Membership in the Society for Pediatric Research (SPR)**
  - Joseph B Cantey 2012
  - Charitharth V Lal 2012

- **Member of the Society for Pediatric Research (SPR):**
  - Joseph B Cantey 2012

**Postgraduate training:**

- Accepted to the Duke MBA program, Olutoye Osunbunmi; 2013

- Clinical Safety Effectiveness Training program
  - Julian Sheehan, 2014
  - Heather Weydig 9/18/2015

**Funding during fellowship**

<table>
<thead>
<tr>
<th>Name</th>
<th>Sponsor</th>
<th>Award/Grant</th>
<th>Title</th>
<th>Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joseph Cantey</td>
<td>Gerber Foundation</td>
<td>Novice Researcher Award ; #5200762201</td>
<td>Use and Misuse of Antibiotic Therapy in the Neonatal Intensive Care Unit</td>
<td>2012-13</td>
</tr>
<tr>
<td>Christina Stine</td>
<td>American Academy of Pediatrics</td>
<td>NRP Research Grant &amp; Young Investigator Award Program</td>
<td>End tidal carbon dioxide (ETCO2) prediction of return of spontaneous circulation (ROSC) during CPR in asystolic and bradycardic neonates</td>
<td>2013-14</td>
</tr>
<tr>
<td>Reina Mayor</td>
<td>American Academy of Pediatrics</td>
<td>Marshall Klaus Perinatal Research Award</td>
<td>In utero maternal high fat diet increases fetal lung inflammation impairing lung development</td>
<td>2013-14</td>
</tr>
<tr>
<td>John Sparks</td>
<td>American Academy of Pediatrics</td>
<td>NRP Research Grant &amp; Young Investigator Award</td>
<td>Randomized, Controlled Pilot Study of Asynchronous Compression and Ventilation Cycles vs Standard NRP CPR for Resuscitation in a</td>
<td>2011-12</td>
</tr>
<tr>
<td>Name</td>
<td>Institution</td>
<td>Program</td>
<td>Neonatal Swine Asphyxia Model</td>
<td>Year</td>
</tr>
<tr>
<td>---------------------</td>
<td>------------------------------------</td>
<td>-------------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------------------------------</td>
<td>-------</td>
</tr>
<tr>
<td>Michel Mikhael</td>
<td>Children's Medical Center</td>
<td>Children’s Clinical Research Advisory Committee (CCRAC)</td>
<td>Peri-operative Assessment of the Hypothalamic-Pituitary-Adrenal Axis Predicts Outcome in Neonates Undergoing Cardiac Surgery</td>
<td>2011-13</td>
</tr>
<tr>
<td>Vishal Kapadia</td>
<td>Children's Medical Center Foundation</td>
<td>North and Central Texas Clinical and Translational Science Initiative (NCTCTSI) Pilot Grant Award Program</td>
<td>Randomized Trial of a Limited versus Traditional Oxygen Strategy During Resuscitation to Prevent Oxidative Stress in Premature Newborns</td>
<td>2010-11</td>
</tr>
<tr>
<td>Nathan Sundgren</td>
<td>NIH</td>
<td>Loan Repayment Program (LRP)</td>
<td>-</td>
<td>2010-11</td>
</tr>
<tr>
<td>Nathan Sundgren</td>
<td>Children's Medical Center</td>
<td>Children’s Clinical Research Advisory Committee (CCRAC)</td>
<td>Role of Fc Receptors in High Fat Diet-Induced Hypertension</td>
<td>2010-11</td>
</tr>
<tr>
<td>John Sparks</td>
<td>Children's Medical Center</td>
<td>Children’s Clinical Research Advisory Committee (CCRAC)</td>
<td>Randomized Controlled Pilot Study of Asynchronous Compression and Ventilation Cycles vs. Standard NRP CPR for Resuscitation in Neonatal Swine Asphyxia Model</td>
<td>2010-11</td>
</tr>
<tr>
<td>Katherine Bennett</td>
<td>American Academy of Pediatrics</td>
<td>Marshall Klaus Perinatal Research Award</td>
<td>The role of Ephrin B2 reverse signaling in lung morphogenesis</td>
<td>2009-10</td>
</tr>
<tr>
<td>Natalie Frost</td>
<td>Ikaria</td>
<td>Advancing Newborn Medicine Grant Program</td>
<td>Estrogen and Estrogen Receptor Modulation of BPD</td>
<td>2009-10</td>
</tr>
<tr>
<td>Lilian St. John</td>
<td>American Academy of Pediatrics</td>
<td>NRP Research Grant &amp; Young Investigator Award Program</td>
<td>Effectiveness of Plastic Lined Hats for Prevention of Hypothermia in Preterm Newborns in the Delivery Room</td>
<td>2008-10</td>
</tr>
</tbody>
</table>

Previous Graduates: Promotion to senior rank
Myra Wyckoff, M.D.: Promoted to Professor September 2015
Becky Ennis, MD: Promoted to Associate Professor September 2015
Timothy Brannon, MD: Promoted to Associate Professor September 2015
UTSW Neonatal-Perinatal Fellow Scholarship

**Myra Wyckoff, M.D.:** Promoted to Associate Professor July 2008  
**Andrea Duncan, MD:** Promoted to Associated Professor June 2014

**University of Texas Southwestern Clinical Research Scholar**, UT Southwestern Center for Translational Medicine and the Department of Clinical Sciences at UTSW  
**Lina Chalak, MD, 2007-12**  
**Vishal Kapadia, MD, 2013-16**

**Selected for the SPR Young Investigator Coaching Program**  
**Vishal Kapadia, MD, 2014;** mentor: Ola D. Saugstag, MD.

**Grants obtained by graduates**

<table>
<thead>
<tr>
<th>Name</th>
<th>Sponsor</th>
<th>Support years</th>
<th>Title</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wyckoff (Site PI)</td>
<td>NICHD Cooperative Multicenter NRN: 8 U10 HD040689-12</td>
<td>4/1/2016 - 3/31/2021</td>
<td>-</td>
<td>$1,000,000 (2016-21)</td>
</tr>
<tr>
<td>Kapadia (PI: Robert Toto)</td>
<td>Center for Translational Medicine at UTSW KL2TR001103</td>
<td>2013-2015</td>
<td>NIH/NCATS, KL2 Award</td>
<td>$90,000</td>
</tr>
<tr>
<td>Kapadia (PI)</td>
<td>American Academy of Pediatrics/AHA NRP Research Award</td>
<td>2014</td>
<td>Novel Transitional Goal Saturations for Preterm Resuscitation in the Delivery Room: A Randomized Control Trial</td>
<td>$50,000</td>
</tr>
<tr>
<td>Chalak (PI)</td>
<td>NIH-National Institutes of Health K23 HD069521</td>
<td>7/1/12 – 6/30/15</td>
<td>Cerebrovascular Dysfunction with HIE During Hypothermia and Rewarming</td>
<td>$350,525</td>
</tr>
<tr>
<td>Chalak (PI)</td>
<td>Gerber Foundation 11PH-011-1302-2996-01</td>
<td>1/1/2012-12/31/2014</td>
<td>Rewarming Phase of Hypothermia Therapy to Optimize Outcomes in Hypoxic-ischemic Encephalopathy</td>
<td>$120,545</td>
</tr>
<tr>
<td>Chalak (PI)</td>
<td>Gerber Foundation</td>
<td>11/17/2011-10/16/2013</td>
<td>Rewarming Phase of Hypothermia Therapy to Optimize Outcomes in Hypoxic-ischemic Encephalopathy</td>
<td>$131,604</td>
</tr>
<tr>
<td>Chalak (PI)</td>
<td>NIH-National Institutes of Health 1 RO1 MH092535-02</td>
<td>9/15/11 – 5/31/15</td>
<td>Structural development of human fetal brain</td>
<td>$267,538</td>
</tr>
<tr>
<td>Wyckoff (PI)</td>
<td>Ikaria Investigator</td>
<td>Nov 2010- Nov 2012</td>
<td>Inhaled NO in neonatal asphyxia</td>
<td>$119,492</td>
</tr>
<tr>
<td>Name</td>
<td>Grant Details</td>
<td>Initiated Grant</td>
<td>Description</td>
<td>Award Amount</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>---------------------</td>
<td>----------------------------------------------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Wyckoff (Site PI)</td>
<td>NICHD Cooperative Multicenter NRN: 8 U10 HD040689-12</td>
<td>4/1/2014 - 3/31/2016</td>
<td>-</td>
<td>$1,000,000</td>
</tr>
<tr>
<td>Chalak (PI)</td>
<td>North and Central Texas Clinical and Translational Science Initiative (NCTCTSI) Pilot Grant Program</td>
<td>2010-2011</td>
<td>Optimizing Hypothermia Therapy: A Pilot Study for Evaluation of the Rewarming Phase in Newborns with Hypoxic-Ischemic Encephalopathy (HIE)</td>
<td>$39,970</td>
</tr>
<tr>
<td>Vyas-Reed Shilpa (PI)</td>
<td>KO8</td>
<td>8/1/2010 - 5/31/2015</td>
<td>The role of reactive oxygen species in alveolar epithelial-mesenchymal transition</td>
<td>$127,850</td>
</tr>
<tr>
<td>Wyckoff (PI)</td>
<td>AAP, Neonatal Resuscitation Program</td>
<td>2008-2009</td>
<td>The ergonomics of neonatal cardiac compressions</td>
<td>$71,030</td>
</tr>
<tr>
<td>Chalak (Packer - PI)</td>
<td>NIH/NCRR</td>
<td>9/17/07 - 5/31/12</td>
<td>5 KL2 RR024983-02; North and Central Texas Clinical and Translational Science Initiative</td>
<td>$50,000</td>
</tr>
<tr>
<td>Wyckoff (Collab.) Idris (PI)</td>
<td>NIH</td>
<td>2004-2009</td>
<td>Clinical Research Consortium to Improve Resuscitation Outcomes</td>
<td>$2,443,349</td>
</tr>
</tbody>
</table>