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# CURRICULUM VITAE

## Ru-Jeng Teng MD

**Professor**
**Department of Pediatrics**
**Division of Pediatrics Neonatology**

**OFFICE ADDRESS:**

999 N. 92nd Street

Milwaukee, WI 53226

**EDUCATION:**

1978 - 1985 MD, National Taiwan University, Medical College, Taiwan
1987 - 1990 Pediatric Residency, National Taiwan University Hospital, Taipei, Taiwan
1990 - 1991 Chief Resident in Pediatrics, National Taiwan University Hospital, Taipei, Taiwan
1990 - 1992 Neonatology Fellow, National Taiwan University Hospital, Taipei, Taiwan
1994 - 1997 Graduate Institute of Clinical Medicine, National Taiwan University, Taiwan
1997 - 2000 Neonatology Fellow, the University of Alabama at Birmingham
2000 - 2002 Pediatric Resident, the University of Alabama at Birmingham
Graduate Institute of Clinical Medicine, National Taiwan University 1994-1997
National Taiwan University, Medical College M.D. 1978-1985
TRAINING

**POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:**

1987 - 1990 Pediatric Residency, National Taiwan University Hospital, R.O.C., Taipei, Taiwan
1990 - 1991 Chief Resident in Pediatrics, National Taiwan University Hospital, R.O.C., Taipei, Taiwan
1990 - 1992 Neonatology Fellow, National Taiwan University Hospital, R.O.C., Taipei, Taiwan
1997 - 2000 Neonatology Fellow, University of Alabama at Birmingham, Birmingham, AL
2000 - 2002 Pediatric Resident, University of Alabama at Birmingham, Birmingham, AL

**MILITARY SERVICE:**

1 - Present Phenotypical changes of pulmonary artery endothelial cells in pulmonary hypertension
1 - Present Management of high frequency ventilator including HFOV, HFJV, and HFFI.
1 - Present Feeding in surgical neonates. Combined Pediatric Surgery and Neonatology Conference. September 2007.
1 - Present Teng RJ, Wang PJ, Wang TR, Shen YZ. Apert syndrome associated with septo-optic dysplasia. Pediatr Ne
1 - Present Beckman JS, Reiter C, Teng R-J. Peroxynitrite is a key intermediate in tyrosine nitration catalyzed
1 - Present Lecturer of Pediatrics, National Taiwan University, regular lectures of apnea of prematurity and int
1 - Present The function of neonatal neutrophil and influence of cytokine.
1 - Present Teng RJ. Autophagy and NADPH Oxidase Activity Tends to Regulate Angiogenesis in Pulmonary Artery End
1 - Present NSC85-2331-B-002-328 (National Science Council of R.O.C., 1995-1996): Insulin-like growth factor and
2 - Present NADPH oxidase 2 in pulmonary hypertension
2 - Present INO treatment of the full-term and premature infants.
2 - Present The impaired angiogenesis of developing lungs with in utero pulmonary hypertension. Pediatric Surger

2 - Present Teng RJ, Tsao YK, Chang MH, Chen CL, Lee CY. An autopsy case of Reye's syndrome associated with acut
2 - Present Teng R-J, Ye YZ, Parks DA, Beckman JS. Endogenous urate production prevents myocardium from peroxyni
2 - Present Neonatology fellows trained in Taiwan:
2 - Present The free radical research especially with peroxynitrite. Mentors involved Joseph S. Beckman and Dale
2 - Present Teng RJ, Konduri GG. Pulmonary vasodilators in the treatment of persistent pulmonary hypertension of
2 - Present DD01-86IX-RA501IT (National Health Research Institute of R.O.C., 1995-2000): Long-term health hazard
3 - Present Management of pulmonary hypertension in neonates.
3 - Present NADPH oxidase in the development of necrotizing enterocolitis
3 - Present Care of the PPHN patient both by hyperventilation or non-hyperventilation way (Dr. Wung JT). Have be
3 - Present Phenotypical change of pulmonary artery endothelial cell after chronic in utero Pulmonary Hypertensi
3 - Present Teng R-J, Digerness S, Beckman JS. Peroxynitrite induces coronary vasodilation in isolated rat heart
3 - Present Dyson Initiative Grant, AAP: Promotion of breastfeeding in African American teenage mothers. 2005. P
3 - Present Resident research
3 - Present Teng RJ. Oxidative stress in neonatal lung diseases. Chapter 3 in "Oxidative Stress in Lung Diseases
3 - Present Wu TJ, Teng RJ, Chang MH, Chen CC. Congenital short bowel syndrome: Report of a case treated with ho
4 - Present The relationship of growth factors and kidney.
4 - Present Role of reactive oxygen species (ROS) and reactive nitrogen species (RNS) in vascular biology
4 - Present Competent in peripheral arterial line and PICC placement. Have trained more than ten charge nurses a
4 - Present Teng R-J, Bulger A, Wu TJ, Namasivanum A, Philips JB, Carlo WA. Nitrotyrosine affects proliferation,
4 - Present Chou YH, Teng RJ, Yau KIT, Yang CM. Retinopathy of prematurity: an analysis of risk factors. J Formo
4 - Present R03HD073274 (NICHD): GCH1 in hyperoxic lung injury in newborn. Principal Investigator
4 - Present Fellow research in MCW
4 - Present AMP Kinase in Developing Lungs. Developmental Vascular Biology Group 2012 July 19th presentation.
5 - Present Endogenous production of urate protects heart from peroxynitrite induced protein nitration.
5 - Present AMP-activated protein kinase in vascular biology
5 - Present Head and abdominal ultrasound diagnosis. Able to do echocardiogram for PDA, pericardial effusion, no
5 - Present Teng R-J, Bulger A, Wu TJ, Namasivanum A, Philips JB, Carlo WA. Nitrotyrosine affects proliferation,
5 - Present Jou HJ, Ng KY, Teng RJ, Hsieh FJ. Doppler sonographic detection of reverse twin-twin transfusion aft
5 - Present CTSI 2013 Pilot Awards (UL1TR000055, Advancing a Healthier Wisconsin (AHW)): Tetrahydrobiopterin in
5 - Present Intern Advisor
5 - Present Infant of diabetic mother. Pediatric Grand Round 2012 July 27th
6 - Present Peroxynitrite induced coronary vasodilation and impairment of ventricular function in isolated rat h
6 - Present Hyperoxia lung injury
6 - Present Skin rashes in neonates. Combined Surgery-Neonatology Conference 2013 July 05th
6 - Present Teng R-J, Bulger A, Wu TJ, Namasivanum A, Philips JB, Carlo WA. Nitrotyrosine affects pulmonary arte
6 - Present NHBLI R25 Grant-Summer Research Program (PI: Ken Simons): Co-preceptor for summer

student - Kent S.
6 - Present Medical Students
6 - Present Tsai WH, Teng RJ, Chu JS, Chang MH, Ho MM. Neonatal Dubin-Johnson syndrome. J Pediatr Gastroenterol
7 - Present Free nitrotyrosine incorporation into cytoskeleton of the pulmonary artery endothelial cells associa
7 - Present Role of autophagy in oxidative stress-induced endothelial cell dysfunction
7 - Present Teng R-J, Bulger A, Wu TJ, Namasivanum A, Philips JB, Carlo WA. Nitrotyrosine affects pulmonary arte
7 - Present Jou HJ, Ng KY, Shyu MK, Teng RJ, Hsieh FJ, Tsaur GT, Chien CH. Perinatal outcome of one fetal death
7 - Present CTSI 2014 Pilot Awards: The Effect of Breast Milk NADPH Oxidase Activity on NEC
7 - Present Nogo-B receptor in pulmonary angiogenesis. Developmental Vascular Biology Group 2013 May 09th
8 - Present Angiogenic activity of the pulmonary artery endothelial cells with and without pulmonary hypertensio
8 - Present Role of GTP-cyclohydrolase-1 in pulmonary hypertension
8 - Present Teng R-J, Ambalavanan N, Wu TJ, Bulger A, Philips JB. Superoxide and NO are both required for nitrot
8 - Present Wu TJ, Teng RJ.c Diffuse neonatal haemangiomatosis with intrauterine haemorrhage and hydrops fetalis
8 - Present NHLBI T35 Training Grant (5T35 HL072483-33): Preceptor for summer student - Nathan J. Alcasid
8 - Present Nogo-B receptor in pulmonary artery smooth muscle cells. Developmental Vascular Biology Group 2013 S
9 - Present The protective role of AMP-activated kinase (AMPK) in pulmonary hypertension and hyperoxic lung inju
9 - Present Reactive oxygen species (ROS) and pulmonary angiogenesis. CRI conference 2013 September 20th
9 - Present Teng R-J, Wu TJ, Garrison RD, Sharma R, Hudak ML. Early neonatal hypotension in premature infants bo
9 - Present CTSI 2016 Pilot Awards (UL1TR001436, Advancing a Healthier Wisconsin (AHW): ER stress in BPD and pul
9 - Present Wu TJ, Teng RJ,c Yau KIT. Persistent pulmonary hypertension of the newborn treated with magnesium su
10 - Present Nogo-B receptor in developing lungs
10 - Present MCW 2017 New Faculty Seeds Grant (RAC) : YAP1 in angiogenesis and mitochondrial dynamics during lung
10 - Present Shyu MK, Shih JC, Lee CN, Wu CC, Jou HJ, Hsieh FJ, Chang MH, Yau KIT, Teng RJ, Lin GJ, Li YW. Extrau
10 - Present Caffeine effect on hyperoxic lung injury. Pediatric Surgery Multidisciplinary Seminar 2014 March
11 - Present Effect of caffeine mon hyperoxic lung injury
11 - Present Skin rash. Pediatric/Surgery Combined Conference March and September 2014
11 - Present Tsau YK, Hsu JN, Chen CH, Teng RJ, Chen HC. Decreased urinary epidermal growth factor in children wi
11 - Present American Cancer Society Pilot Grant : Targeting LSD1 for high grade endometrial cancer by modulating
11 - Present Teng R-J, Wu TJ, Sharma R, Garrison RD, Hudak ML. Early hypotension requring inotropes is associated
12 - Present Mitochondrial function in developing lungs
12 - Present Oxidative stress in developing lungs. Redox Biology Research in Progress. MCW. February 04, 2016
12 - Present Sharma R, Hudak ML, Wludyka P, Teng R-J, Tepas JJ III, Haycook L. Early postnatal maternal milk feed
12 - Present NHLBI 1 R01 HL136597 07/01/2018-06/30/2023
12 - Present Tsao PN, Teng RJ, Wu TJ, Yau KIT, Wang PJ. Nonprogressive congenital unilateral ventriculomegaly. Pe

13 - Present ER stress in developing lungs
13 - Present International symposium for high risk pregnancy and improving vaginal birth rate (12-06-2015~12-06-2
13 - Present Teng R-J, Williams P, Wu TJ, Sharma R, Garrison RD, Hudak ML Evaluation of a transcutaneous bilirubi
13 - 2019 CRI Pilot Grant 01/01/2019-12/31/2019
13 - Present Tsai MJ, Tang JR, Teng RJ,c Lee PI, Chang MH. Necrotizing bowel lesions complicated by Pseudomonas s
14 - Present Single nucleotide polymorphism in bronchopulmonary dysplasia
14 - Present CRI Noon conference (01-06-2017): Endoplasmic Reticulum in Neonatal Hyperoxia Lung Injury
14 - Present Teng R-J, Williams P, Wu TJ, Hudak ML. Is sternal transcutaneous bilirubinometer (TCB) reading a bet
14 - 2021 CRI Pilot Grant 02/01/2021-12/31/2021
14 - Present Lin SW, Lin DT, Hsieh SW, Hsieh PK, Teng RJ, Tsou KI, Lin KS. Hemolytic disease of the newborn cause
15 - Present Wu TJ, Teng RJ,c Yau KIT. Transfusion-related acute lung injury treated with surfactant in a neonate
15 - Present Glucose metabolism in endothelial cells and cancer cells
15 - Present Gowda GM, Bakhutashvili I, Ge W, Teng R-J, North P, Konduri GG. Effect of selective serotonin reupta
15 - Present NIH/NHLBI R01HL128371 07/01/2021-06/30/2025
15 - Present CTSI Research Conference (01-19-2017): Endoplasmic Reticulum in Neonatal Hyperoxia Lung Injury
16 - Present Jou HJ, Teng RJ, Shyu MK, Shih JC, Su CH, Chen HY, Hsieh FJ. Perinatal outcome in monochorionic twin
16 - Present Metabolomics in neonatal lungs
16 - Present Teng R-J, Eis A, Bakhutashvili I, Arul N, Konduri GG. Increased superoxide (O2-) production from NAD
16 - Present NIH/NHLBI 1R44HL166018-01A1-SBIR 04/02/2023-03/31/2025 (NCE 03/30/2027)
16 - Present CHW resident career development talk (12-08-2017)
17 - Present Jeng SF, Tsao CC, Chen LC, Teng RJ, Yau KIT, Jan MH. Reliability of the Neonatal Neurobehavioral Exa
17 - Present Cellular senescence in neonatal lungs
17 - Present Teng R-J, Pritchard KA, Jr., Shi Y, Konduri GG. Sepiapterin improves the angiogenesis in pulmonary a
17 - Present R01HL174635-01 07/15/2024 - 07/14/2029
17 - Present Persistent Pulmonary Hypertension of the Newborn: From Bench to Clinics (06-18-2019). Taipei Veteran
18 - Present Lin SC, Teng RJ, Wang JK. Management of severe pulmonary hypertension in an infant with obstructed t
18 - Present Teng R-J, Du J-H, Eis A, Shi Y, Pritchard KA, Konduri GG. Sepiapterin improves NO availability in pu
18 - Present Mellowes Endowed Chair funds 01/01/2025 - 12/31/2025
18 - Present CRI Noon Conference (09-06-2019): Role of myeloperoxidase in bronchopulmonary dysplasia
19 - Present Fan PC, Teng RJ, Chen JC, Huang CH, Yau KIT. Rigid bronchoscopy and jet ventilation in an extremely
19 - Present Konduri GG, Teng R-J, Pritchard KA, Jr. Endothelial nitric oxide synthase (eNOS) - mitochondrial int
19 - 2025 Mellowes Center CRI-Focused Award. 04/01/2026 - 03/31/2027
19 - Present National Taiwan University Hospital Yunlin Branch 2023 Annual Conference (03-10-2023): Neonatology i
20 - Present Tsau YK, Chen CH, Chang MH, Teng RJ, Lu MY, Lee PI. Nephromegaly and elevated hepatocyte growth fact
20 - Present Du J, Guan T, Teng R-J, Pritchard KAP, Jr., Shi Y. The role of MAP4K3 in angiogenesis in aortic endo
20 - Present Soref CIR-Focused Award 06/03/2026 - 12/02/2026
20 - Present Neonatology in the Midwest of USA (03-15-2023): Taipei Veteran General Hospital

21 - Present Chang PF, Teng RJ, Yau KIT, Chen CL, Chen CC. Lipoblastomatosis in a newborn infant. Pediatr Surg In
21 - Present Du J, Teng R-J, Guan T, Xu H, Pritchard KA, Shi Y. The role of autophagy in angiogenesis in aortic e
21 - Present AHW 2026 Momentum Grant 07/01/2026 - 06/30/2028
21 - Present Improving Infant Health Outcomes: Lessons from the US (09-09-2023): 2023 Annual Conference of Taiwan
22 - Present Teng RJ, Wu TJ, Ho MM. Mumps infection complicated by transient hyperinsulinemic hypoglycemia. Pedia
22 - Present Teng R-J, Wu TJ, Eis A, Pritchard KA, Konduri GG. Free nitrotyrosine (NT) impairs the angiogenesis o
22 - Present MCW CIR-Focused Award 06/21/2026 - 12/20/2026
22 - Present Experience sharing with pediatricians in training (01-06-2024): 2024 Taiwan Pediatric Association An
23 - Present Lu FL, Hou JW, Tsai WS, Teng RJ, Yau KIT, Wang TR. Tricho-rhino-phalangeal syndrome type II associat
23 - Present Afolayan AJ, Davis JM, Eis A, Teng R-J, Konduri GG. Down regulation of manganese superoxide dismutas
23 - Present MCW CIR-Focused Award 06/21/2026 - 12/20/2026
24 - Present Lin YT, Teng RJ, Chiu HC, Yau KIT, Chang MH, Shen YZ. An unusual presentation of multiple congenital
24 - Present Teng R-J, Eis A, Bakhutashvili I, Konduri GG. Nitrotyrosine (NT) inhibits endothelial nitric oxide s
24 - Present R21HD122943 09/01/2026 - 08/31/2028
25 - Present Shih HH, Teng RJ, Yau KI, Lin HH, Hsieh FJ, Chen CC. Mature teratoma arising from an inra-abdominal
25 - Present Teng R-J, Du J, Guan T, Eis A, Shi Y, Konduri GG. Increased autophagy in pulmonary artery endothelia
25 - Present R21HD122283 09/01/2026 - 08/31/2028
26 - Present Yang CM, Chen MS, Tsou Yau KI, Teng RJ. Comparison of cryotherapy and laser photocoagulation in stag
26 - Present Welak SR, Teng R-J, Pritchard KA, Rentea RM, Fredrich KM, Gourlay DM. Developmental changes of NADPH
26 - Present 26.
27 - Present Teng R-J, Konduri GG. AMP Kinase (AMPK) activation improves angiogenesis in persistent pulmonary hyp
27 - Present Lu CY, Teng RJ, Hou JW, Cheng TJ. Bifid tongue associated with midline cleft palate, mandible, cervi
28 - Present Mahajan C, Teng R-J, Eis A, Afolayan A, Konduri GG. Decreased prostaglandin I2 synthase (PGIS) expre
28 - Present Yang YH, Teng RJ, Tang JR, Yau KI, Huang LH, Hsieh FJ. Etiology and outcome of hydrops fetalis. J Fo
29 - Present Welak S, Teng R-J, Pritchard KA Jr., Gourley D. Developmental changes in NADPH oxidase in a neonatal
29 - Present Lin JH, Hou JW, Teng RJ, Tien HF, Lin KH. Jacobsen distal 11q deletion syndrome with a myelodysplast
30 - Present Afolayan AJ, Eis A, Bakhutashivili I, Teng R-J, Konduri GG. Heat shock protein 70 (Hsp70) regulates
30 - Present Tsau YK, Teng RJ, Chen CH. Correlation between urinary epidermal growth factor excretion and serum t
31 - Present Afolayan AJ, Eis A, Bakhutashivili I, Teng R-J, Konduri GG. Heat shock protein 70 (Hsp70) regulates
31 - Present Lin MT, Wu MH, Hsieh FJ, Wang JK, Teng RJ, Tsou KI, Lue HC. Long QT syndrome manifested as fetal ven
32 - Present Welak S, Teng R-J, Pritchard KA, Jr., Gourley D. Developmental changes in NADPH oxidase in a neonata
32 - Present Lin YT, Teng RJ, Wang JK, Chang MH, Chen CC, Chang CI. Successful arterial switch

operation in a low
33 - Present Teng R-J, Zhao B, Miao RQ, Konduri GG. Role of Nogo-B signaling pathway in fetal pulmonary artery en
33 - Present Jeng SF, Tsou KI, Teng RJ. Neurobehavioral development at term in very low-birthweight infants and n
34 - Present Cohen SS, Teng R-J, Miao RQ, Konduri GG. Hyperoxia alters Nogo protein signaling in the developing b
34 - Present Tsao PN, Teng RJ, Wu TJ, Tang JR, Yau KI. Early outcome of extremely low birth weight infants in Tai
35 - Present Mahajan C, Teng R-J, Eis A, Konduri GG. Reciprocal changes in endothelial prostacyclin (PGI2) and th
35 - Present Chen HJ, Teng RJ, Tsou Yau KI, Yang CM. Optimal timing of retina examinations for premature infants.
36 - Present Makker K, Teng R-J, Afolayan A, Konduri GG. Increased hypoxia inducible factor-1? (HIF-1?) signali
36 - Present Lu FL, Wang PJ, Teng RJ, Yau KI. The human tail. Pediatr Neurol 1998;19:230-233.
37 - Present Singla R, Teng R-J, Konduri GG. Altered activity of thioredoxin system in a fetal lamb model of pers
37 - Present Tsao PN, Teng RJ, Tang JR, Yau KI Tsou. Granulocyte colony-stimulating factor in cord blood of prema
38 - Present Powers B, Teng R-J, Cohen S, Konduri GG. Altered markers of cerebral angiogenesis in a fetal lamb mo
38 - Present Beckman JS, Viera L, Estevez AG, Teng R. Nitric oxide and peroxynitrite in the perinatal period. Sem
39 - Present Tadokoro KS, Teng R-J, Konduri GG, Miao RQ. NgBR modulates pulmonary artery smooth muscle cell funct
39 - Present Reiter C, Teng RJ, Beckman JS. Superoxide reacts with nitric oxide nitrates tyrosine at physiologic
40 - Present Makker K, Teng R-J, Afolayan A, Duff B, Eis A, Konduri GG. Altered hypoxia inducible factor-1? (HIF
40 - Present Yang KD, Chen MZ, Teng RJ, Yang MY, Liu HC, Chen RF, Hsu TY, Shiao MF. A model to study antioxidant
41 - Present Singla R, Teng R-J, Konduri GG. Cellular redox status affects thioredoxin (TRX) system in a fetal la
41 - Present Tsao PN, Teng RJ, Chou HC, Tsou KI. The thrombopoietin level in the cord blood in premature infants
42 - Present Yadav A, Teng R-J, Michalkiewicz T, Eis A, Konduri GG. The activity of AMP-activated protein kinase
42 - Present Teng RJ, Ye YZ, Parks DA, Beckman JS. Urate produced during hypoxia protects heart proteins from per
43 - Present Tadokoro KS, Rana U, Konduri GG, Miao RQ, Teng R-J. Nogo-B receptor (NgBR) expression modulates the
43 - Present Sharma R, Tepas JJ, III, Hudak ML, Pieper P, Teng RJ, Raja S, Sharma M. Neonatal gut injury and infe
44 - Present Makker K, Teng R-J, Afolayan A, Duff B, Eis A, Konduri GG. Altered hypoxia Inducible factor-1? (HIF
44 - Present Teng RJ c, Wu TJ, Sharma R, Garrison RD, Hudak ML. Early neonatal hypotension in premature infants b
45 - Present Singla R, Teng R-J, Konduri GG. Cellular redox status affects thioredoxin (TRX) system in a fetal la
45 - Present Sharma R, Tepas JJ 3rd, Hudak ML, Mollitt DL, Wludyka PS, Teng RJ, Premachandra BR. Neonatal gut bar
46 - Present Yadav A, Teng R-J, Eis A, Michaelciwicz T, Konduri GG. AMP-activated protein kinase (AMPK) function
46 - Present Teng RJ c, Wu TJ, Garrison RD, Sharma R, Hudak ML. Early neutropenia is not associated with an incre
47 - Present Konduri GG, Callan E, Afolayan AJ, Teng R-J. Decreased PGC-1?-SIRT1 signaling leads to

impaired ang
47 - Present Teng R-J c, Eis A, Bakhutashvili I, Arul N, Konduri GG. Increased superoxide production contributes
48 - Present Afolayan AJ, Eis A, Mickalkiewicz T, Teng R-J, Konduri GG. Decreased NO availability contributes to
48 - Present Sharma R, Hudak ML, Tepas JJ III, Wludyka PS, Teng R-J, Hastings LK, Renfro WH, Marvin WJ Jr.. Prena
49 - Present Yadav A, Teng R-J, Konduri GG. Altered AMP-activated protein kinase (AMPK) function and protective e
49 - Present Teng R-J c, Wu TJ, Bisig GA, Eis A, Pritchard KA Jr, Konduri GG. Nitrotyrosine impairs angiogenesis
50 - Present Teng R-J, Cai S, Eis A, Afolayan AJ, Konduri GG. GTP-cyclohydrolase-1 (GCH1) modulates pulmonary art
50 - Present Teng R-J c, Du J, Bakhutashvili I, Eis A, Song Y, Shi Y, Xu H, Pritchard KA Jr, Konduri GG. Sepiapte
51 - Present Jing X, Michalkiewicz T, Konduri GG, Teng R-J. Caffeine increases GTP-cyclohydrolase-1 (GCH1) activi
51 - Present Du J, Teng R-J, Guan T, Eis A, Kaul S, Konduri GG, Shi Y. The role of autophagy in angiogenesis in a
52 - Present Tadokoro KS, Rana U, Jing X, Eis A, Konduri GG, Miao QR, Teng R-J. Nogo-B receptor (NgBR) is essenti
52 - Present Du J, Teng R-J, Lawrence M, Guan T, Xu H, Ge Y, Shi Y. The protein partners of GTP cyclohydrolase I
53 - Present Yadav A, Teng R-J, Konduri GG. Altered AMP-activated protein kinase (AMPK) function and protective e
53 - Present Teng R-J c, Du J, Welak S, Guan T, Eis A, Shi Y, Konduri GG. Cross-talk between NADPH oxidase and au
54 - Present Konduri GG. Michalkiewicz T, Afolayan A, Sampath V, Broeckel U, Kazzi N, Simpson P, Teng R-J. A vari
54 - Present Afolayan AJ, Eis A, Teng R-J, Bakhutashvili I, Kaul S, Davis JM, Konduri GG. Downregulation of manga
55 - Present Afolayan AJ, Teng R-J, Konduri GG. Decreased NO availability contributes to impaired mitochondrial b
55 - Present Teng R-J c, Du J, Afolayan AJ, Eis A, Shi Y, Konduri GG. AMP kinase activation improves angiogenesis
56 - Present Callan E, Teng R-J, Konduri GG. Decreased PGC-1?-SIRT1 signaling leads to impaired angiogenesis in
56 - Present Afolayan AJ, Teng R-J, Eis A, Rana U, Broniowska KA, Corbett JA, Pritchard KA, Konduri GG. Inducible
57 - Present Natarajan R, Michalkiewicz T, Teng R-J, Konduri GG. Postnatal exposure to systemic lipopolysaccharid
57 - Present Teng R-J c, Rana U, Afolayan AJ, Zhao B, Miao QR, Konduri GG. Nogo-B receptor modulates angiogenesis
58 - Present Jing X, Michalkiewicz T, Konduri GG, Teng R-J. Caffeine Protects Rat Pup Lungs Exposed to Hyperoxia
58 - Present Cohen SS, Powers BR, Lerch-Gaggl A, Teng R-J, Konduri GG. Impaired cerebral angiogenesis in the feta
59 - Present Teng R-J, Konduri GG. Caffeine Modulates Endoplasmic Reticulum (ER) Stress in Hyperoxia-Exposed Neon
59 - Present Welak SR, Rentea RM, Teng R-J, Heinzerling N, Biesterveld B, Liedel JL, Pritchard KA Jr, Fredrich KM
60 - Present Michalkiewicz T, Johnson HM, Jing X, Teng R-J, Afolayan A, Konduri GG. Endothelial Hypoxia Inducible
60 - Present Teng R-J c, Wu T-J, Sharma R, Garrison RD, Hudak ML. Efficacy of recombinant human granulocyte colon
61 - Present Sharma M, Teng R-J, Afolayan A, Konduri GG. Downregulation of Liver Kinase B1-5'AMP Activated Protei

61 - Present Mahajan CN, Afolayan AJ, Eis A, Teng R-J, Konduri GG. Altered prostanoid metabolism contributes to i
62 - Present Sharma M, Afolayan AJ, Teng R-J, Konduri GG. Coordinated Downregulation of Mitochondrial Transcripti
62 - Present Teng R-J,C Wu T-J, Hsieh FJ. Cord blood level of insulin-like growth factor-1 and IGF binding protei
63 - Present Alexander M, Teng R-J, Konduri GG, Afolayan AJ. A Superoxide Dismutase-2 (SOD2) Domain in Inducible
63 - Present Konduri GG, Afolayan A, Eis A, Pritchard K, Teng R-J. Interaction of endothelial nitric oxide syntha
64 - Present Johnson H, Gray J, Sharma M, Afolayan AJ, Teng R-J, Konduri GG. Title: Liver Kinase B1 (LKB1) Regula
64 - Present Teng R-J,C Wu T-J, Afolayan A, Konduri GG. Nitrotyrosine impairs mitochondrial function in fetal lam
65 - Present Teng R-J, Konduri GG. Nogo-B Receptor (NgBR) Regulates the Function of Endoplasmic Reticulum (ER) an
65 - Present Afolayan A, Eis A, Michalkiewicz T, Teng R-J, Lakshminrusimha S, Konduri GG. Decreased endothelial N
66 - Present Jing X, Konduri GG, Teng R-J. Nogo-B Receptor Ligand, Nog-B modulates lung development in mice. 2017
66 - Present Tadokoro KS, Rana U, Jing X, Konduri GG, Miao QR, Teng R-J C. Nogo-B Receptor Modulates Pulmonary Ar
67 - Present Hu X, Teng R-J, Konduri GG. The interaction between Pulmonary Artery Endothelial Cells (PAEC) and Pu
67 - Present Klionsky DJ, Abdelmohsen K, --Teng R-J, -- Zughaier SM. Guidelines for the use and interpretation of
68 - Present Rana U, Teng R-J, Johnson H, Michaelkiwicz T, Konduri GG. Hyperoxia alters the tip and stalk cell ph
68 - Present Hu W, Zhang W, Chen Y, Rana U, Teng R-J, Duan Y, Liu Z, Zhao B, Foeckler J, Weiler H, Kallinger RE,
69 - Present Seward S, Michalkiewicz T, Zemanovic S, Johnson H, Teng R-J, Afolayan AJ, Konduri G. Exposure to hyp
69 - Present Afolayan AJ, Alexander M, Holme RL, Michalkiewicz T, Rana U, Teng R-J, Zemanovic S, Sahoo D, Pritcha
70 - Present Teng R-J, Konduri GG. Nogo-B receptor (NgBR) modulates glucose metabolism in neonatal pulmonary arte
70 - Present Teng R-J C, Jing X, Michalkiewicz T, Afolayan AJ, Wu T-J, Konduri GG. Attenuation of endoplasmic ret
71 - Present Jing X, Pritchard KA, Teng R-J. Inhibition of myeloperoxidase by N-acetyl lysyltyrosylcysteine amide
71 - Present Jing X, Huang YW, Jarzembowski J, Shi Y, Konduri GG, Teng RJ C. Caffeine ameliorates hyperoxia-induc
72 - Present Hu X, Teng R-J, Konduri GG. Altered Metabolic Phenotype of Pulmonary Artery Smooth Muscle Cells (PAS
72 - Present Zemanovic S, Ivanov MV, Ivanova LV, Bhatnagar A, Michalkiewicz T, Teng RJ, Kumar S, Rathore R, Pritc
73 - Present Seward S, Johnson H, Michalkiewicz T, Adeleye J Afolayan, Jing X, Teng RJ, Konduri GG. Exposure to h
73 - Present Makker K, Afolayan AJ, Teng RJ, Konduri GG. Altered hypoxia-inducible factor-1? (HIF-1?) signaling
74 - Present Teng RJ, Pritchard KA, Kinduri GG. N-acetyl lysyltyrosylcysteine amide (KYC) Reduces Endoplasmic Ret
74 - Present Schultz A, Olorundami OA, Teng R-J, Jarzembowski J, Shi ZZ, Kumar SN, Pritchard KA Jr, Konduri GG, A
75 - Present Jing X, Konduri GG, Teng RJ. Ameliorate hyperoxia lung damage through decrease endoplasmic reticulum
75 - Present Bi SH, Jiang LL, Dai LY, Zheng H, Zhang J, Wang LL, Wang C, Jiang Q, Liu Y, Zhang YL,

Wang J, Zhu C,
76 - Present Callan E, Entringer B, Michalkiewicz T, Afolayan A, Teng RJ, Konduri GG. 5' AMP-Activated Protein Ki
76 - Present Rana U, Callan E, Entringer B, Michalkiewicz T, Joshi A, Parchur AK, Teng RJ, Konduri GG. AMP-kinase
77 - Present Doolittle R, Michalkiewicz T, Entringer B, Teng RJ, Konduri GG. Liver kinase B1 (LKB1) in Endothelia
77 - Present Yadav A, Rana U, Michalkiewicz T, Teng RJ, Konduri GG. Decreased AMP-activated protein kinase (AMPK)
78 - Present Konduri GG, Rana U, Entringer B, Callan E, Teng RJ, Michalkiewicz T. Pulmonary Artery Endothelial Ce
78 - Present Teng RJ, Jing X, Martin DP, Hogg N, Haefke A, Konduri GG, Day BW, Naylor S, Pritchard KA Jr. N-acety
79 - Present Jing X, Konduri GG, Teng RJ. Endoplasmic Reticulum (ER) Stress Impairs Neonatal Lung Growth. 2020 SP
79 - Present Sharma M, Rana U, Joshi C, Michalkiewicz T, Afolayan A, Parchur A, Joshi A, Teng RJ, Konduri GG. Dec
80 - Present Teng RJ, Pritchard KA, Jr, Konduri GG. Thiol-Containing KYC (N-Acetyl-Lysyltyrosylcysteine Amide) Pr
80 - Present Bi, S-H., Jiang, L-L., Dai, L-Y., Wang, L-L., Liu, G-H., Teng, R-J. Familial hemophagocytic lymphohi
81 - Present Mukherjee D, Afolayan JA, Teng RJ, Kriegel A, Konduri GG. MiR34c modulates angiogenesis in human en
81 - Present Pritchard KA Jr, Jing X, Teng M, Wells C, Jia S, Afolayan AJ, Jarzembowski J, Day BW, Naylor S, Hess
82 - Present Teng RJ, Teng M, Konduri GG. Nogo-B Receptor (NgBR) Modulates Mitochondrial Function of Pulmonary Ar
82 - Present Sargin P, Roethle MF, Jia S, Pant T, Ciecko AE, Atkinson SN, Salzman NH, Teng RJ, Chen YG, Cabrera S
83 - Present Mukherjee D, Afolayan JA, Teng RJ, Kriegel A, Konduri GG. MiR34c modulates angiogenesis in human en
83 - Present Sidlowski P, Czerwinski A, Liu Y, Liu P, Teng RJ, Kumar S, Wells C, Pritchard K Jr, Konduri GG, Afol
84 - Present Teng RJ, Teng M, Konduri GG. Nogo-B Receptor (NgBR) Modulates Mitochondrial Function of Pulmonary Ar
84 - Present Bi S, Dai L, Jiang L, Wang L, Teng M, Liu G, Teng R-J. Chronic Granulomatous Disease Associated with
85 - Present Jing X, Konduri GG, Hessner M, Du J, Teng RJ. Decreased Taurine Transport and Impaired Alveolar Form
85 - Present Jiang LL, Bi SH, Yu J, Zhao FX, Teng M, Teng RJ. Severe hemolytic disease of the newborn caused by J
86 - Present Sati SK, Rana U, Michaelkiewicz, Joshi C, Teng RJ, Konduri GG. Decreased Micro-RNA 30b Impairs Angio
86 - Present Jing X, Jia S, Teng M, Day BW, Afolayan AJ, Jarzembowski JA, Lin CW, Hessner MJ, Pritchard KA Jr, Na
87 - Present Teng R-J: From bronchopulmonary dysplasia (BPD) to systems pharmacology therapy (SPT). 2025 CRI Noon
87 - Present Scott W, Wong IGY, Cramer J, Horton D, Basel D, Teng RJ, Muriello M, Elkadri A. Clinical course and
88 - Present Teng R-J. Hyperoxia-exposure suppresses nephrogenesis in premature kidneys. 2025 SIP Presentation
88 - Present Rarick KR, Li K, Teng RJ, Jing X, Martin DP, Xu H, Jones DW, Hogg N, Hillery CA, Garcia G, Day BW, N
89 - Present Teng RJ, Pritchard KA, Day BW, Naylor S. KYC: A Systems Chemico-Pharmacology Drug Targeting MPO-Driv
89 - Present Mooers EA, Johnson HM, Michalkiewicz T, Rana U, Joshi C, Afolayan AJ, Teng RJ, Konduri GG. Aberrant

90 - Present Rana U, Joshi C, Whitney E, Afolayan A, Dowell J, Teng RJ, Konduri GG. Decreased Liver Kinase B1 Exp
91 - Present Wu TJ, Jing X, Teng M, Pritchard KA Jr, Day BW, Naylor S, Teng RJ. Role of Myeloperoxidase, Oxidativ
92 - Present Teng M, Wu TJ, Jing X, Day BW, Pritchard KA Jr, Naylor S, Teng RJ. Temporal Dynamics of Oxidative St
93 - Present Wu T-J, Teng M, Jing X, Pritchard KA Jr., Day BW, Naylor S, Teng R-J. Endoplasmic Reticulum Stress i
94 - Present Zhang E, Wu TJ, Hudak ML, Yan K, Teng RJ. Optimal site for applying transcutaneous bilirubinometer a
95 - Present Czerwinski A, Sidlowski P, Mooers E, Liu Y, Teng RJ, Pritchard K Jr, Jing X, Kumar S, Pan AY, Liu P,
96 - Present Sati SK, Rana U, Joshi C, Teng RJ, Konduri GG. Decreased endothelial micro-RNA-30b-5p impairs angiog
97 - Present Teng M, Wu TJ, Pritchard KA Jr, Day BW, Naylor S, Teng RJ. The Destructive Cycle in Bronchopulmonary
98 - Present Zhang E, Wu TJ, Hudak ML, Yan K, Teng RJ. Cumulative Ambient Light Exposure Affects Outpatient Trans
99 - Present Rarick KR, Li K, Teng RJ, Jing X, Martin DP, Xu H, Jones DW, Hogg N, Hillery CA, Garcia G, Day BW, N
100 - Present Teng RJ. Oxidative Stress Is a Double-Edged Sword for the Neonate. Antioxidants (Basel). 2026 Mar 23
101 - Present Jing X, Wang Y, Roethle M, Jia S, Teng M, Konduri GG, Hessner MJ, Pritchard KA Jr, Day BW, Jin Y, Ma
102 - Present Mooers EA, Rana U, Joshi CN, Afolayan AJ, Teng RJ, Konduri GG. Decreased AMP-kinase function in pulm
103 - Present Dounce C, Jing X, Li K, Jones D, Wu TJ, Afolayan AJ, Konduri GG, Day BW, Pritchard KA Jr, Naylor S,
104 - Present Dir B, Mishra R, Hennen N, Mooers E, Teng RJ, Konduri G, Segar JL, Grobe J, Hodges MR, Mouradian GC.
1985 - 1987 Medical Officer, Second Lieutenant, Army of Taiwan, R.O.C
1986 - Present FMGEMS step I & II
1986 - 1997 Medical License of Taiwan
1987 - 1997 Medical Association of Taiwan
1987 - 1997 Taipei Medical Society, Taiwan, R.O.C.
1987 - 2004 Taiwan Pediatric Association
1987 - Present Medical Officer, Second Lieutenant, Army of ROC, honorable discharge
1989 - Present Resident of the year, Department of Pediatrics, National Taiwan University, Medical College.
1991 - 1993 Director, Pediatric and Neonatal Intensive Care Unit, Provincial Tao-Yuan Hospital, Tao-Yuan, Taiwan
1991 - Present Chief Resident, Department of Pediatrics, National Taiwan University Hospital
1991 - Present Board of Pediatrics (#01443), Taipei, Taiwan
1992 - 1997 Lecturer of Pediatrics, National Taiwan University Hospital, Taipei, Taiwan, R.O.C.
1992 - 1997 Advisory Board of the Pediatric Intensive Care/Emergent Medicine Subcommittee, The Pediatric Associa
1992 - 1994 Tao-Yuan Medical Society, Taiwan, R.O.C.
1992 - 1997 Society of Neonatology, R.O.C.
1992 - Present Board of Pediatric Critical Care and Emergency Medicine (#018), Taipei, Taiwan
1992 - Present Mead-Johnson Research Award, Taiwan Pediatric Association
1992 - Present Neonatology Board of Taiwan
1993 - 1997 National Taiwan University Hospital
1993 - 1997 Advisory Board of Premature Baby Foundation, Taipei, Taiwan, R.O.C.
1993 - Present Wei-Chuan '1993' Growth and Development Research Award, Taiwan Pediatric Association
1994 - Present Nestle's Best Research Award, Taiwan Pediatric Association
1994 - Present Professor Chen's Research Award, Taiwan Pediatric Association
1995 - Present Wei-Chuan '1995' Growth and Development Research Award, Taiwan Pediatric Association.
1995 - 1997 Associate Secretary-General, Society of Neonatology of R.O.C.

1996 - Present Teacher of the Year, National Taiwan University, Medical College.
1997 - 2002 Instructor of Pediatrics, University of Alabama at Birmingham Medical School, Birmingham, Alabama
1997 - 2006 Alabama Medical License
1997 - 2002 The University of Alabama at Birmingham Hospital
1997 - Present Best Performing Pediatrician, National Taiwan University Hospital.
1998 - Present Outstanding Young Americans Award
1998 - Present USMLE step I, II & III (#0-412-812-0)
2000 - Present Regional trainer of NRP
2000 - 2014 Research Group of Neonatal Resuscitation Program
2000 - 2004 Southern Society of Pediatric Research
2002 - 2006 Assistant Professor of Pediatrics, University of Florida Health Science Center, Jacksonville
2002 - Present Southern Society of Pediatric Research 2002 Trainee Travel Award
2002 - 2006 Shands Hospital Jacksonville
2002 - Present American Board of Pediatrics General Pediatrics
2002 - 2006 Florida Medical License
2002 - Present Society of Pediatric Research 2002 House Officer Research Award
2003 - Present American Board of Pediatrics Neonatal/Perinatal Medicine sub-board
2003 - 2006 American Medical Association
2003 - Present American Academy of Pediatrics
2004 - Present Pediatric Rookie Attending Award of the Year, UFHSC-Jacksonville
2004 - Present Student Teaching Apple Award of University of Florida
2004 - 2006 Director of Newborn Nursery, University of Florida Health Science Center, Jacksonville
2004 - Present Fellow of American Academy of Pediatrics
2005 - Present Finalist of Louis Russo Award for Outstanding Professionalism in Medicine (1/4)
2005 - Present Student Teaching Apple Award of University of Florida
2005 - Present Best Teaching Faculty in Pediatrics of UFHSC-Jacksonville
2006 - Present Marquis Who's Who in Asia, 1st ed
2006 - Present Student Teaching Apple Award of University of Florida
2006 - Present University of Florida College of Medicine Exemplary Teachers Award
2006 - Present Wisconsin State License
2006 - 2015 Children's Hospital of Wisconsin
2006 - Present
2006 - 2015 2006-2015
2006 - Present
2006 - 2013 Assistant Professor, Medical College of Wisconsin
2007 - Present Best Doctors in America 2007-2008
2009 - Present Best Doctors in America 2009-2010
2009 - Present Marquis Who's Who in the World
2009 - Present Marquis Who's Who in Medicine and Healthcare
01/2010 - Present Pediatric Infectious Disease Journal (Impact factor 3.58)
01/2010 - Present Infection Control and Hospital Epidemiology (Impact factor 3.67)
01/2010 - Present Journal of Pediatric Infectious Disease
2010 - Present Marquis Who's Who in the World
2010 - Present Marquis Who's Who in America, 64th Edition
2010 - 2015 Grafton Aurora Hospital
2010 - 2015 2010-2015
07/2011 - Present Vascular Health and Risk Management
2011 - Present Best Doctors in America 2011-2012
2011 - Present Marquis Who's Who in Science and Engineering 2011-2012 (11th Edition).
2011 - Present Marquis Who's Who in the World
2011 - Present Marquis Who's Who in America, 65th Edition
03/2012 - Present American Journal of Respiratory Disease Cell and Molecular
09/2012 - Present Journal Formosan Medical Association (Impact factor 1.70)
11/2012 - Present Frontier in Pediatrics
11/2012 - Present World Journal of Gastroenterology (Impact factor 2.47)
2012 - Present Marquis Who's Who in the World

2012 - Present Marquis Who's Who in America, 66th Edition
2012 - Present St Joe West Bend Hospital
06/2013 - Present Scientific Reports (Impact factor 5.228)
08/2013 - Present PLOsOne (Impact factor 3.53)
08/2013 - Present International Journal of Chronic Obstructive Pulmonary Disease
09/2013 - Present Archives Disease in Children (Impact factor 2.88)
2013 - Present Best Doctors in America 2013-2014
2013 - Present Vitals Top 10 Doctors
2013 - Present Marquis Who's Who in the World
2013 - Present Marquis Who's Who in America, 67th Edition
2013 - 2022 Associate Professor, Medical College of Wisconsin
2013 - Present now Director, Fellow Basic Research
2013 - Present American Board of Pediatrics Neonatal/Perinatal Medicine sub-board, recertified
03/2014 - Present
03/2014 - Present Critical Care Medicine (Impact factor 6.12)
06/2014 - Present
07/2014 - Present
10/2014 - Present
11/2014 - Present
2014 - Present Marquis Who's Who in America, 68th Edition
2014 - Present Society of Pediatric Research, member
2014 - Present Extramural Reviewer for Hungarian Scientific Research Fund (OTKA)
2014 - Present Marquis Who's Who in the World
01/2015 - Present
02/2015 - Present
05/2015 - Present
05/2015 - Present
05/2015 - Present
08/2015 - Present Global Journal of Health Science (Associate Editor)
08/2015 - Present Journal of Respiratory Research
09/2015 - Present Am J Perinatal (Impact factor 1.60)
10/2015 - Present
2015 - Present Best Doctors in America 2015-2016
2015 - Present Marquis Who's Who in America, 69th Edition
2015 - Present CTSI Pilot Award Coach for Dr. Lars Olson (Marquette University)
2015 - Present Extramural Reviewer for National Research, Development and Innovation Office (NKFIH) of Hungary. Org
2015 - Present Marquis Who's Who in the World
02/2016 - Present
03/2016 - Present International Journal of Molecular Science (Impact factor 3.179)
05/2016 - Present
05/2016 - Present
07/2016 - Present
12/2016 - Present
2016 - Present Extramural Reviewer for National Research, Development and Innovation Office (NKFIH) of Hungary. Org
2016 - 2024 St Elizabeth Hospital
2016 - Present CHW Fox Valley
2016 - Present Best Doctors in America 2016-2017
2016 - Present Marquis Who's Who in America, 70th Edition
2016 - Present UC Davis ICTS extramural reviewer
2016 - Present Marquis Who's Who in the World
01/2017 - Present Clinics in Surgery/Pediatric Surgery
02/2017 - Present
05/2017 - Present
07/2017 - Present
2017 - Present Best Doctors in America 2017-2018

2017 - Present Albert Nelson Marquis Lifetime Achievement Award
2017 - Present Marquis Who's Who in America, 71st Edition
2017 - Present Albert Nelson Marquis Lifetime Achievement Award
2017 - Present Marquis Who's Who in the World
08/2018 - Present Drug Design Development and Therapy (Impact factor 3.028)
08/2018 - Present
10/2018 - Present
10/2018 - Present
10/2018 - Present American Journal of Physiology Lung, Cell, Molecular Physiology (IF: 4.47)
2018 - Present Albert Nelson Marquis Lifetime Achievement Award
2018 - Present Best Doctors in America 2018-2019
02/2019 - Present Life Sciences (IF: 3.234)
04/2019 - Present Cells (IF: 4.829)
08/2019 - Present Scientific Report
11/2019 - Present JoVE (Guest Editor)
11/2019 - Present Anti-Cancer Agents in Medicinal Chemistry (IF: 2.18)
12/2019 - Present Aging (IF: 4.831)
2019 - Present Albert Nelson Marquis Lifetime Achievement Award
2019 - Present Best Doctors in America 2019-2020
2019 - Present Medical College of Wisconsin Teaching Pin Award
2019 - Present now MCW Department of Pediatrics, Scholarly Advisory Committee
06/2020 - Present Pediatric Pulmonology (IF: 2.801)
07/2020 - Present Journal of Pediatric Genetics (IF: 3.0)
08/2020 - Present Nutrition Research (IF:2.770)
10/2020 - Present BMC Pediatrics (IF:2.11)
12/2020 - Present Journal of Inflammation Research (IF: 4.953)
2020 - Present Albert Nelson Marquis Lifetime Achievement Award
2020 - Present Best Doctors in America 2020-2021
03/2021 - Present Molecules (IF: 3.267)
04/2021 - Present Frontiers in Cell and Developmental Biology (IF: 5.186)
06/2021 - Present Frontiers in Physiology (IF: 4.134)
06/2021 - Present Journal of Clinical Medicine (IF: 3.033)
07/2021 - Present Biomedicines (IF: 5.61)
08/2021 - Present Food and Function (IF: 5.396)
11/2021 - Present Biomedicines (Guest Editor: Angiogenesis in Health and Disease)
11/2021 - Present Frontier in Cell and Developmental Biology (Guest Editor: Omics in lung disorders)
11/2021 - Present Antioxidants (IF: 5.952)
11/2021 - Present American Journal of Respiratory and Critical Care Medicine (IF: 21.4)
12/2021 - Present Bioengineered (IF: 3.269)
2021 - Present Best Doctors in America 2021-2022
2021 - Present now Professional Health Committee of Children's Wisconsin
2021 - Present now MCW Library Committee
2021 - Present now QA project: Unplanned Extubation Committee, Children's Wisconsin
2021 - Present The University of Florida, College of Medicine, Invited Reviewer for P&T Committee
03/2022 - Present Ann Med (IF: 3.58)
07/2022 - Present CHEMICO-BIOLOGICAL INTERACTIONS (IF: 5.192)
08/2022 - Present Frontiers in Cell and Developmental Biology - Signaling (Associate editor)
02/2023 - Present Eur Respir J (IF: 33.795)
07/2023 - Present Hepatology (IF: 13.5)
09/2023 - Present Scientific Reports - Unfolded Protein Response (Invited editor)
10/2023 - Present Experimental Molecular Medicine (IF: 12.8)
10/2023 - Present Naunyn-Schmiedeberg's Arch Pharmacol (IF: 3.6)
2023 - Present Professor, Medical College of Wisconsin
02/2024 - Present FASEB Journal (IF: 4.8)
06/2024 - Present Front Pediatr (IF: 2.6)
07/2024 - Present Antioxidants
09/2024 - Present Children

11/2024 - Present Nutrients (IF: 4.8)
11/2024 - Present Redox Biology (IF: 10.7)
03/2025 - Present Antioxidants - Oxidative Stress in the Newborn (Invited Editor)
03/2025 - Present International Immunotherapy (IF: 4.8)
03/2025 - Present BMC Pulmonary Medicine (IF: 2.6)
03/2025 - Present Medical Principles and Practice (IF: 2.9)
03/2025 - Present Science Progress (IF: 2.6)
03/2025 - Present eBioMedicine (IF: 9.7)
05/2025 - Present International Journal of Nanomedicine (IF: 6.7)
05/2025 - Present International Immunopharmacology (IF:5.7)
05/2025 - Present Cell Biology and Toxicology (IF:5.3)
06/2025 - Present Journal of Pediatrics (IF:4.4)
06/2025 - Present Neonatology (IF:2.6)
07/2025 - Present PeerJ Life & Environment (IF: 2.7)
07/2025 - Present Eur J Med Res (IF: 3.1)
10/2025 - Present Molecular and Cellular Biochemistry (IF: 3.7)
10/2025 - Present Research (IF: 10.7)
11/2025 - Present Biomedicine and Pharmacotherapy (IF: 7.5)
11/2025 - Present Journal of Pharmacy and Pharmacology (IF: 3.1)
12/2025 - Present iScience
12/2025 - Present Journal of Molecular Histology
01/2026 - Present Advanced Science (IF: 10.4)
01/2026 - Present Medical Science (IF: 4.4)
01/2026 - Present Antioxidants - Oxidative Stress and Therapeutic Approaches in Lung Diseases (Invited Editor)
03/2026 - Present Respiratory Research (IF 5.0)
03/2026 - Present Advanced Biology
Jen-Ruei Tang 1995-1997 Neonatology faculty, Denver, Colorado
Hsin-Jin Chen 1995-1997 Director of Neonatology, Tao-Yuan General Hospital, Taiwan
Po-Nien Tsao 1996-1997 Attending Neonatologist, National Taiwan University Hospital
Frank Li Lu 1996-1997 Director of PICU, National Taiwan University Hospital
1) Gisela Porras, UFHSC-Jacksonville (2004-2006): Encouraging African American Women to breastfeed,
2) Devyani Belsare, UFHSC-Jacksonville (2004-2005): Neutropenia and usage of rhG-CSF in the preventi
1) Scott Welak (2009 - 2012): Neonatology fellow
2) Adeleye J. Afolayan (2009 - 2012): Neonatology fellow
3) Jonathan Ramprasad (2010 - 2011): Pediatric Gastroenterology fellow
4) Chaitali Mahajan (2010 -2013): Neonatology fellow
5) Ruchi Singla (2011 - 2014): Neonatology fellow
6) Katakeya Makker (2011 - 2014): Neonatology fellow
7) Abha Yadav (2012 - 2015): Neonatology fellow
8) Ramkumar Natarajan (2014 -2015): Pulmonology fellow
9) Megha Sharma (2014 - 2017): Neonatology fellow
10) Xianxing Hu (2015-2018): Neonatology fellow
11) Sheraden Seward (2016-2019): Neonatology fellow
12) Rose Doolittle (2017-2020): Neonatology fellow
13) Devashis Mukherjee (2018-2021): Neonatology Fellow
14) Emily Callan (2020-2023): Neonatology Fellow
15) Sunil Sati (2021-2023): Neonatology Fellow
1) Nicole Rau (2013 - 2015)
2) Austin Moats (2017-2018)
3) Matthew R. Roenius (2019-2022)
a. Rachel Gentile 07/2011- 05/2012 (Clinical shadowing)
b. Brian Beerbower 05/2011 - 07/2011 (2011 Summer Student: Mitochondrial oxygen consumption in pers
c. Kent S. Tadokoro 05/2013 - 06/2016 (2013 Summer Student Program: Nogo-B receptor in hyperoxic lu
Awarded: Doctor of Medicine degree with Honors in Research
Presently: ENT resident, Loyola University Medical Center
d. Emily Callan 05/2014 - 06/2017 (2014 Summer Student Program: Alterations in PGC-1? and SIRT-1

Presently: Pediatric Resident, CHW
e. Nathan J. Alcasid 05/2016 - 06/2019 (2016 Summer Student Program: Nogo-B Receptor (NgBR) Modulate
Awarded: Doctor of Medicine degree with Honors in Research
f. Savani Aluru 05/2017 - 06/2020 (2017 Summer Student Program)
RESEARCH ACTIVITY INVOLVED in the past
RECENT RESEARCH ACTIVITY
CLINICAL EXPERIENCE
INVITED LECTURES
PUBLICATIONS: (out of 158)
ACADEMIC APPOINTMENTS:
HOSPITAL APPOINTMENTS:
St. Joseph Catholic Hospital
Provincial Tao-Yuan General Hospital
The Children's Hospital of Alabama
Cooper Green County Hospital
Baptist Medical Center, Jacksonville
Baptis Beach Medical Center, Jacksonville Beach
Baptist Medical Center South
Memorial Hospital Jacksonville
Orange Park Medical Center
NAS Jacksonville
Waukesha Memorial Hospital
Community Memorial Hospital
Oconowoc Memorial Hospital
Summit Aurora Hospital
OTHER APPOINTMENTS:
CERTIFICATIONS:
LICENSURE:
AWARDS/HONORS:
PROFESSIONAL SOCIETIES:
PROFESSIONAL COMMITTEES:
Reviewer/Referee:
Biology (Impact factor 5.13)
Book chapter
Abstract presentation
Editorial Board Member
GRANT SUPPORT:
Co-I (P.I.: Scott Welak)
Co-I (PI : Akiko Mammotto)
Co-I (PI : Yi-Wen Huang)
AMP Kinase regulation in persistent pulmonary hypertension of the newborn.
Co-I (PI : G. Ganesh Konduri) : 10% effort
Myeloperoxidase & HMGB1 Mediate Severe BPD
Principal Investigator
Hyperoxia, inflammation, and nephrogenesis
Principal Investigator
Mechanisms of Inflammation in Sickle Cell Disease
Co-I (PI: Kirkwood A. Pritchard Jr.): 10% effort
Development of a Systems Pharmacology Agent for Treatment of Bronchopulmonary Dysplasia
Site PI: Ru-Jeng Teng, 25% effort
Role of Liver Kinase B1 in the decreased angiogenesis in bronchopulmonary dysplasia
Co-I (PI: G. Ganesh Konduri) 5% effort
Role of myeloperoxidase in active nephrogenesis
Principal Investigator
MPO inhibition as a mechanism to protect active nephrogenesis
Principal Investigator

MPO inhibition as a mechanism to protect active nephrogenesis
Principal Investigator
Novel Therapeutic Strategy for Bronchopulmonary Dysplasia in Premature Infants
Co-Investigator
Systems Pharmaco-Therapeutic Approach in Neonatal Lung Protection
Principal Investigator
Systems Pharmaco-Therapeutic Approach in Neonatal Lung Protection
Principal Investigator
Plasma persulfides explain culture-negative neonatal sepsis
Co-I (PI: Rodney Willoughby) 5% Effort
A novel therapeutic strategy for bronchopulmonary dysplasia
Co-I (PI: G. Ganesh Konduri) 3% Effort
TEACHING EXPERIENCE:
Tzong-Jin Wu 1993-1996 Faculty Neonatologist Medical College of Wisconsin
Hsien-Jia Huang 1993-1994 Attending neonatologist, Municipal Tainan Hospital, Taiwan
Ji-Ping Chang 1993-1994 Attending Neonatologist, Tien's Hospital, Taipei, Taiwan
Shaw-Hsuen Hsia 1994-1995 Pediatric Intensivist, Chang-Gung Children Hospital, Taiwan

**FACULTY APPOINTMENTS:**

1992 - 1997 Lecturer of Pediatrics, National Taiwan University Hospital, Taipei, Taiwan, R.O.C.
1997 - 2002 Instructor of Pediatrics, University of Alabama at Birmingham Medical School, Birmingham, AL
2002 - 2006 Assistant Professor of Pediatrics, University of Florida Health Science Center, Jacksonville, FL
2004 - 2006 Director of Newborn Nursery, University of Florida Health Science Center, Jacksonville, FL
2006 - 2013 Assistant Professor of Pediatrics, Pediatrics, Neonatology, Medical College of Wisconsin, Milwaukee, WI
2013 - Present Associate Professor, Pediatrics, Neonatology, Medical College of Wisconsin, Milwaukee, WI

**ADMINISTRATIVE APPOINTMENTS:**

07/01/2003 - 09/30/2006 Director of Newborn Nursery, Pediatrics, Neonatology, Shand's Hospital, Jacksonville, FL, Jacksonville, FL

**HOSPITAL AND CLINICAL ADMINISTRATIVE APPOINTMENTS:**

1991 - 1993 Director, Pediatric and Neonatal Intensive Care Unit, Provincial Tao-Yuan Hospital St. Joseph Catholic Hospital, Taiwan, Tao-Yuan, Taiwan, R.O.C.
1993 - 1997 Provincial Tao-Yuan General Hospital, Taiwan, R.O.C.
1993 - 1997 National Taiwan University Hospital, Taiwan, R.O.C.
1997 - 2002 University of Alabama at Birmingham Hospital, AL
1997 - 2002 The Children's Hospital of Alabama, AL
1997 - 2002 Cooper Green County Hospital, AL
2002 - 2006 Baptis Beach Medical Center, Jacksonville Beach, FL
2002 - 2006 Baptist Medical Center, Jacksonville, FL
2002 - 2006 Shands Hospital Jacksonville, FL
2002 - 2006 Baptist Medical Center South, FL
2002 - 2006 NAS Jacksonville, FL
2002 - 2006 Orange Park Medical Center, FL
2002 - 2006 Memorial Hospital Jacksonville, FL
2006 - Present Pediatrics, Neonatology, Children's Wisconsin, Milwaukee, WI
2006 - 2017 Waukesha Memorial Hospital, WI
2006 - Present Community Memorial Hospital, WI
2006 - 2017 Oconowoc Memorial Hospital, WI
2012 - Present St. Joe West Bend Hospital, West Bend, WI
2016 - Present Pediatrics, Neonatology, Children's Wisconsin Fox Valley, Neenah, WI
2016 - Present St. Elizabeth Hospital, Appleton, WI

**SPECIALTY BOARDS AND CERTIFICATION:**

| Board Certified | Issue Date | Expiration |
|---|---|---|

| | | |
|---|---|---|
| FMGEMS step I & II | 1986 | 1986 |
| Board of Pediatrics- Taipei, Taiwan | 1991 | 1991 |
| Neonatology Board of Taiwan | 1992 | 1992 |
| Board of Pediatric Critical Care and Emergency Medicine- Taipei, Taiwan | 1992 | 1992 |
| USMLE step I, II & III | 1998 | 1998 |
| Regional trainer of NRP | 2000 | 2000 |
| American Board of Pediatrics General Pediatrics | 2002 | None |
| American Board of Pediatrics Neonatal/Perinatal Medicine sub-board | 2013 | None |

| Licensure | Number | Issue Date | Expiration |
|---|---|---|---|
| Medical License of Taiwan | | 1986 | 1997 |
| Alabama Medical License | | 1997 | 2006 |
| Florida Medical License | | 2002 | 2006 |
| Wisconsin State License | 49628-20 | 2006 | 2021 |

**AWARDS AND HONORS:**

1987 Medical Officer, Second Lieutenant,honorable discharge, Army of ROC
1989 Resident of the year, Department of Pediatrics, National Taiwan University Medical College.
1991 Chief Resident, Department of Pediatrics, National Taiwan University Hospital
1992 Mead-Johnson Research Award, Taiwan Pediatric Association
1993 Wei-Chuan '1993' Growth and Development Research Award, Taiwan Pediatric Association
1994 Professor Chen's Research Award, Taiwan Pediatric Association
1994 Nestle's Best Research Award, Taiwan Pediatric Association
1995 Wei-Chuan '1995' Growth and Development Research Award, Taiwan Pediatric Association.
1996 Teacher of the Year, National Taiwan University Medical College.
1997 Best Performing Pediatrician, National Taiwan University Hospital.
1998 Outstanding Young Americans Award
2002 Trainee Travel Award, Southern Society of Pediatric Research
2002 House Officer Research Award, Society of Pediatric Research
2004 Fellow of American Academy of Pediatrics
2004 Student Teaching Apple Award , University of Florida
2004 Pediatric Rookie Attending Award of the Year, UFHSC-Jacksonville
2005 Finalist of Louis Russo Award for Outstanding Professionalism in Medicine
2005 Student Teaching Apple Award, University of Florida
2005 Best Teaching Faculty in Pediatrics , UFHSC-Jacksonville
2006 Exemplary Teachers Award, University of Florida College of Medicine
2006 Marquis Who's Who in Asia, 1st ed
2006 Student Teaching Apple Award , University of Florida
2007 - 2008 Best Doctors in America
2009 Marquis Who's Who in the World
2009 - 2010 Best Doctors in America
2009 Marquis Who's Who in Medicine and Healthcare
2010 Marquis Who's Who in the World
2010 Marquis Who's Who in America, 64th Edition
2011 - 2012 Best Doctors in America
2011 Marquis Who's Who in America, 65th Edition
2011 Marquis Who's Who in the World
2011 Marquis Who's Who in Science and Engineering 2011-2012 (11th Edition).
2012 Marquis Who's Who in America, 66th Edition

2012 Marquis Who's Who in the World
2013 Marquis Who's Who in the World
2013 - 2014 Best Doctors in America
2013 Vitals Top 10 Doctors
2013 Marquis Who's Who in America, 67th Edition
2014 Marquis Who's Who in America, 68th Edition
2014 Marquis Who's Who in the World
2015 Marquis Who's Who in the World
2015 - 2016 Best Doctors in America
2015 Marquis Who's Who in America, 69th Edition
2016 Marquis Who's Who in America, 70th Edition
2016 Marquis Who's Who in the World
2016 - 2017 Best Doctors in America
2017 Albert Nelson Marquis Lifetime Achievement Award
2017 Albert Nelson Marquis Lifetime Achievement Award
2017 Marquis Who's Who in the World
2017 Marquis Who's Who in America, 71st Edition
2017 - 2018 Best Doctors in America
2018 - 2019 Best Doctors in America
2018 Albert Nelson Marquis Lifetime Achievement Award
2019 - 2020 Best Doctors in America
2019 Medical College of Wisconsin Teaching Pin Award
2019 Albert Nelson Marquis Lifetime Achievement Award
2020 - 2021 Best Doctors in America , Medical College of Wisconsin

**MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:**

1987 - 1997 Taipei Medical Society, Taiwan, R.O.C.
1987 - 1997 Medical Association of Taiwan
1987 - 2004 Taiwan Pediatric Association
1992 - 1997 Society of Neonatology, R.O.C.
1992 - 1994 Tao-Yuan Medical Society, Taiwan, R.O.C.
2000 - 2004 Southern Society of Pediatric Research
2000 - Present Research Group of Neonatal Resuscitation Program
2003 - 2006 American Medical Association
2003 - Present American Academy of Pediatrics
05/01/2014 - Present Society of Pediatric Research (member)

**EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS:**

Editorial Board
- 11/2012 Frontier in Pediatrics
- 07/2014 Journal of Blood Disorder
- 01/2015 Annals of Clinical and Experimental Hypertension
- 08/2015 Journal of Respiratory Research
- 08/2015 Associate Editor for Global Journal of Health Science
- 02/2016 World Journal of Clinical Pediatrics
- 01/2017 Clinics in Surgery/Pediatric Surgery
- 08/2019 Scientific Report

Journal Review
- 01/2010 Pediatric Infectious Disease Journal (Impact factor 3.58)
- 01/2010 Infection Control and Hospital Epidemiology (Impact factor 3.67)
- 01/2010 Journal of Pediatric Infectious Disease
- 07/2011 Vascular Health and Risk Management
- 03/2012 American Journal of Respiratory Disease Cell and Molecular Biology (Impact factor 5.13)
- 09/2012 Journal Formosan Medical Association (Impact factor 1.70)
- 11/2012 World Journal of Gastroenterology (Impact factor 2.47)
- 06/2013 Scientific Reports (Impact factor 5.228)
- 08/2013 PLOsOne (Impact factor 3.53)

08/2013 International Journal of Chronic Obstructive Pulmonary Disease
09/2013 Archives Disease in Children (Impact factor 2.88)
03/2014 Minerva Pediatrica (Impact factor 0.64)
03/2014 Critical Care Medicine (Impact factor 6.12)
06/2014 Gene (impact factor 2.08)
10/2014 Italian Journal of Pediatrics (Impact factor 1.21)
11/2014 World Journal of Diabetes
02/2015 Pediatric Research (Impact factor 2.84)
05/2015 World Journal of Pediatrics (Impact factor 1.05)
05/2015 European Journal of Nutrition (Impact factor 3.84)
05/2015 Pediatrics (Impact factor 5.30)
09/2015 Am J Perinatal (Impact factor 1.60)
10/2015 Heart and Vessels (Impact factor 2.065)
03/2016 International Journal of Molecular Science (Impact factor 3.179)
05/2016 Pharmacological Research (Impact factor 4.405)
05/2016 Journal of Obstetrics and Gynaecology (Impact factor 0.551)
07/2016 Journal of Cellular and Molecular Medicine (Impact factor 4.89)
12/2016 Journal of Materials Chemistry B (Impact factor 4.872)
02/2017 International Journal of Developmental Neuroscience (Impact factor 2.38)
05/2017 DNA and Cell Biology (Impact factor 2.574)
07/2017 Molecular Medicine (Impact factor 3.457)
08/2018 Acta Biochimica et Biophysica Sinica (Impact factor 2.224)
08/2018 Drug Design Development and Therapy (Impact factor 3.028)
10/2018 American Journal of Physiology Lung, Cell, Molecular Physiology (IF: 4.47)
10/2018 International Journal of Environmental Research and Public Health (IF: 2.145)
10/2018 Canadian Journal of Physiology and Pharmacology (IF: 2.21)
02/2019 Life Sciences (IF: 3.234)
04/2019 Cells (IF: 4.829)
11/2019 Anti-Cancer Agents in Medicinal Chemistry (IF: 2.18)
12/2019 Aging (IF: 4.831)
06/2020 Pediatric Pulmonology (IF: 2.801)
07/2020 Journal of Pediatric Genetics (IF: 3.0)
08/2020 Nutrition Research (IF:2.770)
10/2020 BMC Pediatrics (IF:2.11)
12/2020 Journal of Inflammation Research (IF: 4.953)
03/2021 Molecules (IF: 3.267)
04/2021 Frontiers Cell and Developmental Biology (IF: 5.186)
06/2021 Frontiers Physiology (IF: 4.134
06/2021 Journal of Clinical Medicine (IF: 3.033)
07/2021 Biomedicines (IF: 5.61)

**NATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:**

1992 - 1997 Advisory Board of the Pediatric Intensive Care/Emergent Medicine Subcommittee, The Pediatric Association of R.O.C.
1993 - 1997 Advisory Board of Premature Baby Foundation
1995 - 1997 Associate Secretary-General, Society of Neonatology of R.O.C.

**RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:**

**Active**

**Peer Review**

| | |
|---|---|
| Title: | AMP Kinase regulation in persistent pulmonary hypertension of the newborn |
| Source: | NHLBI |
| Role & Effort: | Co-I |
| PI: | G. Ganesh Konduri |
| Dates: | 07/01/2018 - 06/30/2022 |

| | |
|---|---|
| Title: | Hyperoxia, inflammation, and nephrogenesis |
| Source: | CRI |
| Role & Effort: | PI |
| PI: | Ru-Jeng Teng |
| Dates: | 02/01/2021 - 12/31/2021 |
| Title: | Mechanisms of Inflammation in Sickle Cell Disease |
| Source: | NHLBI |
| Role & Effort: | Co-I |
| PI: | Kirkwood A. Pritchard, Jr. |
| Dates: | 07/01/2021 - 06/30/2025 |

**Prior**

**Peer Review**

| | |
|---|---|
| Title: | DD01-86IX-RA501IT: Long term health hazard of low irradiation in habitants reside in house builded by iron rod contaminated with radionuclide |
| Source: | National Health Research Institute of R.O.C. |
| Role & Effort: | Co-Investigator |
| Dates: | 1995 - 2000 |
| Title: | NSC85-2331-B-002-328: Insulin-like growth factor and insulin-like growth factor binding protein in cord blood of monochorionic twins |
| Source: | National Science Council of R.O.C. |
| Role & Effort: | Principal Investigator |
| PI: | Ru-Jeng Teng |
| Dates: | 1995 - 1996 |
| Title: | AAP: Promotion of breastfeeding in African American teenage mothers |
| Source: | Dyson Initiative Grant |
| Role & Effort: | Principal Investigator |
| PI: | Ru-Jeng Teng |
| Dates: | 2005 |
| Title: | 1R03HD073274-01: BH4 in hyperoxic lung injury in newborn |
| Source: | NICHD |
| Role & Effort: | Principal Investigator |
| PI: | Ru-Jeng Teng |
| Dates: | 07/20/2012 - 07/19/2014 |
| Direct Funds: | $100,000 |
| Title: | Tetrahydrobiopterin in neonatal hyperoxic lung injury |
| Source: | CTSI Pilot Initiative Grant |
| Role & Effort: | Principal Investigator |
| PI: | Ru-Jeng Teng |
| Dates: | 07/01/2013 - 06/30/2014 |

| | |
|---|---|
| Direct Funds: | $50,000 |
| Title: | The Effect of Breast Milk NADPH Oxidase Activity on NEC |
| Source: | CTSI |
| Role & Effort: | Co-I |
| PI: | Scott Welak |
| Dates: | 04/01/2014 - 03/31/2016 |
| Direct Funds: | $50,000 |
| Title: | ER stress in BPD and pulmonary hypertension |
| Source: | CTSI |
| Role & Effort: | Principal Investigator |
| PI: | Ru-Jeng Teng |
| Dates: | 03/01/2016 - 02/28/2017 |
| Direct Funds: | $50,000 |
| Title: | YAP1 in angiogenesis and mitochondrial dynamics during lung regeneration |
| Source: | MCW |
| Role & Effort: | Co-I |
| PI: | Akiko Mammoto |
| Dates: | 07/01/2017 - 06/30/2018 |
| Title: | Targeting LSD1 for high grade endometrial cancer by modulating cell adhesion |
| Source: | American Cancer Society |
| Role & Effort: | Co-I |
| PI: | Yi-Wen Huang |
| Dates: | 2018 - 2019 |
| Title: | Myeloperoxidase & HMGB1 Mediate Severe BPD |
| Source: | CRI |
| Role & Effort: | Principal Investigator |
| PI: | Ru-Jeng Teng |
| Dates: | 01/01/2019 - 12/31/2020 |
| Direct Funds: | $75,000 |

**INVITED LECTURES/WORKSHOPS/PRESENTATIONS:**

**Local**

Ru-Jeng Teng, Feeding in surgical neonates., Combined Pediatric Surgery and Neonatology Conference, Medical College of Wisconsin, 09/2007

Ru-Jeng Teng, The impaired angiogenesis of developing lungs with in utero pulmonary hypertension. Pediatric Surgery, Pediatric Surgery Research Conference, Medical College of Wisconsin, 03/10/2009

Ru-Jeng Teng, Infant of diabetic mother, Pediatric Grand Round, Children's Wisconsin, 07/25/2012

Ru-Jeng Teng, Phenotypical change of pulmonary artery endothelial cell after chronic in utero Pulmonary Hypertension (IPH)., Developmental vascular biology group meeting, CRI, 2012

Ru-Jeng Teng, AMP Protein Kinase in Developing Lungs., Developmental Vascular Biology Group, CRI, 2012

Ru-Jeng teng, NgBR and angiogenesis in developing lungs, DVBG, CRI, 09/19/2013

Ru-Jeng Teng, Reactive oxygen species and pulmonary anogenesis, CRI conference, Children's Wisconsin, 09/20/2013

Ru-Jeng Teng, Skin rashes in neonates, Combined Surgery-Neonatology Conference, Medical College of

Wisconsin, 2013

Ru-Jeng Teng, Nogo-B receptor in pulmonary artery smooth muscle cells, Developmental Vascular Biology Group, Medical College of Wisconsin, 2013

Ru-Jeng Teng, Nogo-B receptor in pulmonary angiogenesis, Developmental Vascular Biology Group, Medical College of Wisconsin, 2013

Ru-Jeng Teng, Caffeine effect on hyperoxic lung injury., Surgery Multidisciplinary Seminar, Children's Wisconsin, 03/2014

Ru-Jeng Teng, Skin rash, Pediatric/Surgery Combined Conference, Medical College of Wisconsin, 09/2014

Ru-Jeng Teng, International symposium for high risk pregnancy and improving vaginal birth rate, Ru-Jeng Teng, Shijiazhuang, Heibei, China, 2015

Ru-Jeng Teng, Oxidative stress in developing lungs, Redox Biology Research in Progress, Medical College of Wisconsin, 2016

Ru-Jeng Teng, CHW resident career development talk, Children's Wisconsin, 2017

Ru-Jeng Teng, Endoplasmic Reticulum in Neonatal Hyperoxia Lung Injury, CTSI Research Conference, Children's Wisconsin, 2017

Ru-Jeng Teng, Endoplasmic Reticulum in Neonatal Hyperoxia Lung Injury, CRI Noon conference, Children's Wisconsin, 2017

Ru-Jeng Teng, Role of myeloperoxidase in bronchopulmonary dysplasia, CRI Noon Conference, Children's Wisconsin, 09/06/2019

Ru-Jeng Teng, Persistent Pulmonary Hypertension of the Newborn: From Bench to Clinics, Taipei Veteran General Hospital, 2019

**PEER REVIEWED WORKSHOPS/PRESENTATIONS:**

**International**

Beckman JS, Reiter C, Teng RJ. Peroxynitrite is a key intermediate in tyrosine nitration catalyzed by peroxidases from nitrite as well as from nitric oxide plus superoxide. (Presented by Beckman JS) Biology of Nitric Oxide, Stockholm, 1999

Afolayan AJ, Davis JM, Eis A, Teng RJ, Konduri GG., Down regulation of manganese superoxide dismutase (MnSOD) activity and expression contribute to endothelial dysfunction in persistent pulmonary hypertension of the newborn (PPHN)., SPR Platform presentation, 2011

Welak SR, Teng RJ, Pritchard KA, Rentea RM, Fredrich KM, Gourlay DM., Developmental changes of NADPH oxidase activity and subsequent effects on a rat model of necrotizing enterocolitis., 7th Annual Academic Surgical Congress and 79th Perinatal & Developmental Medicine Symposium, 2011

Mahajan C, Teng R-J, Eis A, Afolayan A, Konduri GG., Decreased prostaglandin I2 synthase (PGIS) expression, activity, and post-translational modifications in persistent pulmonary hypertension of the newborn (PPHN)., SPR, 05/2012

Teng R-J, Konduri GG., AMP Kinase (AMPK) activation improves angiogenesis in persistent pulmonary hypertension of the newborn (PPHN)., SPR, 05/2012

Welak SR, Teng R-J, Pritchard KA, Rentea RM, Fredrich KM, Gourlay DM., Developmental changes of NADPH oxidase activity and subsequent effects on a rat model of necrotizing enterocolitis., 7th Annual Academic Surgical Congress Oral Presentation., 2012

Afolayan AJ, Eis A, Bakhutashivili I, Teng RJ, Konduri GG., Inducible Heat shock Protein 70 (Hsp70) Regulates Manganese Superoxide Dismutase (MnSOD) Activity and Mitochondrial Oxidative Stress in Persistent Pulmonary Hypertension of the Newborn (PPHN)., SPR, Boston, 2012

Welak SR, Teng RJ, Rentea R, Fredrich K, Pritchard K, Jr., Gourlay D., Developmental Changes in NADPH Oxidase in a Neonatal Rat Model of Necrotizing Enterocolitis., SPR, Boston, 2012

Mahajan C, Teng RJ, Eis A, Afolayan AJ, Konduri GG., Decreased Prostacyclin Synthase (PGIS) Expression and Activity and Post-Translational Modifications in Persistent Pulmonary Hypertension of the Newborn (PPHN)., SPR, Boston, 2012

Makker K, Teng RJ, Afolayan A, Konduri GG., Increased hypoxia inducible factor-1? (HIF-1?) signaling is associated with oxidative stress in pulmonary artery endothelial cell (PAEC) from fetal lambs with persistent pulmonary hypertension (PPHN)., APS-SPR, DC, 04/27/2013 - 04/30/2013

Mahajan C, Teng RJ, Eis A, Konduri GG., Reciprocal changes in endothelial prostacyclin (PGI2) and thromboxane A2 (TXA2) signaling in fetal lambs with persistent pulmonary hypertension of the newborn (PPHN)., APS-SPR, DC, 04/27/2013 - 04/30/2013

Teng RJ, Zhao B, Miao RQ, Konduri GG., Role of Nogo-B signaling pathway in fetal pulmonary artery

endothelial cell (PAEC) angiogenesis., APS-SPR, DC, 04/27/2013 - 04/31/2013

Singla R, Teng RJ, Konduri GG., Altered activity of thioredoxin system in a fetal lamb model of persistent pulmonary hypertension of the newborn (PPHN)., APS-SPR, DC, 04/27/2013 - 04/30/2013

Cohen SS, Teng RJ, Miao RQ, Konduri GG., Hyperoxia alters Nogo protein signaling in the developing brain., APS-SPR, DC, 04/27/2013 - 04/30/2013

Cohen SS, Teng R-J, Miao RQ, Konduri GG., Hyperoxia alters Nogo protein signaling in the developing brain., SPR, 05/2013

Teng R-J, Zhao B, Miao RQ, Konduri GG., Role of Nogo-B signaling pathway in fetal pulmonary artery endothelial cell (PAEC) angiogenesis., SPR, 05/2013

Tadokoro KS, Teng R-J, Konduri GG, Miao RQ, NgBR modulates pulmonary artery smooth muscle cell function in developing lungs., AMA Annual Meeting, 2013

Tadokoro KS, Rana U, Konduri GG, Miao RQ, Teng R-J., Nogo-B receptor (NgBR) expression modulates the pulmonary artery smooth muscle cell (PASMC) function in developing lungs., SPR, 05/2014

Makker M, Teng R-J, Afolayan A, Duff B, Eis A, Konduri GG., Altered hypoxia Inducible factor–1? (HIF-1?) signaling contributes to impaired angiogenesis of pulmonary artery endothelial cells (PAEC) in persistent pulmonary hypertension (PPHN)., SPR, 05/2014

Singla R, Teng R-J, Konduri GG, Cellular redox status affects thioredoxin (TRX) system in a fetal lamb model of persistent pulmonary hypertension of the newborn., SPR, 05/2014

Yadav A, Teng R-J, Eis A, Michaelciwicz T, Konduri GG., AMP-activated protein kinase (AMPK) function and its modulation by metformin in hyperoxic lung injury., AAP NCE, 10/2014

Tadokoro KS, Rana U, Jing X, Eis A, Konduri GG, Miao QR, Teng R-J., Nogo-B receptor (NgBR) is essential for protecting pulmonary artery smooth muscle cell (PASMC) in response to endoplasmic reticulum (ER) stress., SPR, 05/2015

Konduri GG. Michalkiewicz T, Afolayan A, Sampath V, Broeckel U, Kazzi N, Simpson P, Teng R-J., A variant in mitochondrial manganese superoxide dismutase (SOD2) associates with risk of bronchopulmonary dysplasia (BPD) in prematurely born African American infants., SPR, 05/2015

Afolayan AJ, Teng R-J, Konduri GG., Decreased NO availability contributes to impaired mitochondrial biogenesis and oxidative stress in fetal lambs with persistent pulmonary hypertension., SPR, 05/2015

Jing X, Michalkiewicz T, Konduri GG, Teng R-J., Caffeine increases GTP-cyclohydrolase-1 (GCH1) activity and angiogenesis in rat pup lungs exposed to hyperoxia, SPR, 05/2015

Yadav A, Teng R-J, Konduri GG., Altered AMP-activated protein kinase (AMPK) function and protective effect of metformin in hyperoxic lung injury., SPR, 05/2015

Callan E, Teng R-J, Konduri GG., Decreased PGC-1?-SIRT1 signaling leads to impaired angiogenesis in persistent pulmonary hypertension of the newborn (PPHN)., SPR, 05/2015

Teng R-J, Cai S, Eis A, Afolayan AJ, Konduri GG., GTP-cyclohydrolase-1 (GCH1) modulates pulmonary artery endothelial cells' (PAEC) mitochondrial function., SPR, 05/2015

Natarajan R, Michalkiewicz T, Teng R-J, Konduri GG., Postnatal exposure to systemic lipopolysaccharide (LPS) leads to sustained inhibition of alveolar growth in neonatal rat lungs., SPR, 05/2015

Afolayan AJ, Eis A, Mickalkiewicz T, Teng R-J, Konduri GG., Decreased NO availability contributes to impaired mitochondrial biogenesis and oxidative stress in fetal lambs with persistent pulmonary hypertension., EB Conference, 2015

Konduri GG, Callan E, Afolayan AJ, Teng R-J., Decreased PGC-1?-SIRT1 signaling leads to impaired angiogenesis in persistent pulmonary hypertension of the newborn (PPHN)., EB conference, 2015

Michalkiewicz T, Johnson HM, Jing X, Teng R-J, Afolayan A, Konduri GG, Endothelial Hypoxia Inducible Factor-1? (HIF-1?) Expression Regulates Alveolar and Vascular Growth and Response to Hyperoxia in Neonatal Mice, SPR Poster Presentation, 2016

Sharma M, Teng R-J, Afolayan A, Konduri GG, Downregulation of Liver Kinase B1-5'AMP Activated Protein Kinase Signaling Contributes to Decreased Mitochondrial Biogenesis in Persistent Pulmonary Hypertension of the Newborn (PPHN), SPR Poster Presentation, 2016

Sharma M, Afolayan AJ, Teng R-J, Konduri GG., Coordinated Downregulation of Mitochondrial Transcription Factors and Angiogenesis and the Role of cGMP signaling in a Fetal Lamb Model of Persistent Pulmonary Hypertension of the Newborn (PPHN), SPR Poster Presentation, 2016

Teng R-J, Konduri GG, Caffeine Modulates Endoplasmic Reticulum (ER) Stress in Hyperoxia-Exposed Neonatal Rat Lungs, SPR Poster Presentation, 2016

Jing X, Michalkiewicz T, Konduri GG, Teng R-J., Caffeine Protects Rat Pup Lungs Exposed to Hyperoxia by Decreasing Inflammation and Apoptosis, SPR Poster Presentation, 2016

Alexander M, Teng R-J, Konduri GG, Afolayan AJ, A Superoxide Dismutase-2 (SOD2) Domain in Inducible

Heat Shock Protein 70 (ihsp70) Regulates Mitochondrial Oxidative Stress in Vascular Cells, SPR Poster Presentation, 2016

Teng R-J, Konduri GG, Nogo-B Receptor (NgBR) Regulates the Function of Endoplasmic Reticulum (ER) and Mitochondria in the Fetal Pulmonary Artery Endothelial Cells (PAEC), SPR Poster Presentation, 2017

Hu X, Teng R-J, Konduri GG, The interaction between Pulmonary Artery Endothelial Cells (PAEC) and Pulmonary Artery Smooth Muscle Cell (PASMC) in Neonatal Lungs, SPR Poster Presentation, 2017

Johnson H, Gray J, Sharma M, Afolayan AJ, Teng R-J, Konduri GG, Liver Kinase B1 (LKB1) Regulates Mitochondrial Biogenesis and Angiogenesis in Vascular Endothelial Cells Through Activation of 5'AMP-activated Protein Kinase (AMPK), SPR Poster Presentation, 2017

Rana U, Teng R-J, Johnson H, Michaelkiwicz T, Konduri GG, Hyperoxia alters the tip and stalk cell phenotype specification and impairs angiogenesis function in pulmonary artery endothelial cells (PAEC), SPR Poster Presentation, 2017

Jing X, Konduri GG, Teng R-J, Nogo-B Receptor Ligand, Nog-B modulates lung development in mice, SPR Platform Presentation, 2017

Teng R-J, Konduri GG, Nogo-B receptor (NgBR) modulates glucose metabolism in neonatal pulmonary artery endothelial cells (PAEC), SPR Poster Presentation, 2018

Hu X, Teng R-J, Konduri GG, Altered Metabolic Phenotype of Pulmonary Artery Smooth Muscle Cells (PASMC) in Persistent Pulmonary Hypertension of the Newborn (PPHN), SPR Poster Presentation, 2018

Jing X, Pritchard KA, Teng R-J, Inhibition of myeloperoxidase by N-acetyl lysyltyrosylcysteine amide (KYC) reduces hyperoxia-induced lung injury in neonatal rat, SPR Poster Presentation, 2018

Seward S, Johnson H, Michalkiewicz T, Adeleye J Afolayan, Jing X, Teng RJ, Konduri GG, Exposure to hyperoxia leads to altered specification of tip and stalk cells and impaired angiogenesis in neonatal rats., MCW Fellow Research Day (3rd prize), 2018

Seward S, Michalkiewicz T, Zemanovic S, Johnson H, Teng R-J, Afolayan AJ, Konduri G, Exposure to hyperoxia leads to altered specification of tip and stalk cells and impaired angiogenesis in neonatal rats, SPR Platform Presentation, 2018

Callan E, Entringer B, Michalkiewicz T, Afolayan A, Teng RJ, Konduri GG, 5' AMP-Activated Protein Kinase (AMPK) Regulates Angiogenesis Function Of PAECs Through Modulation Of PGC-1? Expression, SPR poster Presentation (2019 SPR House Officer Research Award), 2019

Jing X, Konduri GG, Teng RJ, Ameliorate hyperoxia lung damage through decrease endoplasmic reticulum (ER) stress, SPR poster Presentation, 2019

Konduri GG, Rana U, Entringer B, Callan E, Teng RJ, Michalkiewicz T, Pulmonary Artery Endothelial Cell Phenotype Switch Impairs Angiogenesis in the Lungs in Persistent Pulmonary Hypertension of the Newborn, ATS International Conference, 2019

Teng RJ, Pritchard KA, Kinduri GG, N-acetyl lysyltyrosylcysteine amide (KYC) Reduces Endoplasmic Reticulum Stress in Hyperoxic Neonatal Lungs, SPR poster Presentation, 2019

Doolittle R, Michalkiewicz T, Entringer B, Teng RJ, Konduri GG, Liver kinase B1 (LKB1) in Endothelial Cells (EC) Regulates Angiogenesis and Alveolar Formation in the Developing Lungs, SPR, 2019

Teng RJ, Pritchard KA, Jr, Konduri GG, Thiol-Containing KYC (N-Acetyl-Lysyltyrosylcysteine Amide) Provides Multi-Level Anti-Inflammatory Property Through Myeloperoxidase (MPO), SPR, 2020

Jing X, Konduri GG, Teng RJ, Endoplasmic Reticulum (ER) Stress Impairs Neonatal Lung Growth, SPR, 2020

Teng RJ, Teng M, Konduri GG, Nogo-B Receptor (NgBR) Modulates Mitochondrial Function of Pulmonary Artery Endothelial Cells (PAECs) Through the Mitochondria-Associated Membrane (MAM), SPR, 2021

Mukherjee D, Afolayan JA, Teng RJ, Kriegel A, Konduri GG, MiR34c modulates angiogenesis in human endothelial cells through the canonical Notch pathway, Fellow Research Day (First Prize), 2021

**National**

Teng RJ, Ye YZ, Parks DA, Beckman JS, Endogenous urate production prevents myocardium from peroxynitrite induced protein nitration., SPR poster presentation, 2000

Teng RJ, Bulger A, Wu TJ, Namasivanum A, Philips JB, Carlo WA, Nitrotyrosine affects proliferation enzyme expression and prostaglandin production by neonatal pulmonary artery endothelial cells, SSPR platform presentation, 2001

Teng RJ, Digerness S, Beckman JS, Peroxynitrite induces coronary vasodilation in isolated rat heart., SSPR

platform presentation, 2001

Teng RJ, Bulger A, Wu TJ, Namasivanum A, Philips JB, Carlo WA. Nitrotyrosine affects proliferation enzyme expression and prostaglandin production by neonatal pulmonary artery endothelial cells., SPR platform presentation, 2001

Teng RJ, Bulger A, Wu TJ, Namasivanum A, Philips JB, Carlo WA. Nitrotyrosine affects pulmonary artery endothelial cell eicosanoid and endothelin production in a time dependent fashion. SSPR platform presentation (SSPR 2002 Trainee Travel Award), 2002

Teng RJ, Bulger A, Wu TJ, Namasivanum A, Philips JB, Carlo WA. Nitrotyrosine affects pulmonary artery endothelial cell eicosanoid and endothelin production in a time dependent fashion. SPR poster presentation (SPR House Officer Research Award), 2002

Teng RJ, Ambalavanan N, Wu TJ, Bulger A, Philips JB. Superoxide and NO Are Both Required for Nitrotyrosine-Mediated Apoptosis of Pulmonary Artery Endothelial Cells. SPR poster presentation, 2003

Teng RJ, Wu TJ, Garrison RD, Sharma R, Hudak ML. Early neonatal hypotension in premature infants born to hypertensive mothers. SPR poster presentation, 2004

Belsare D, Teng RJ, Wu TJ, Garrison RD, Hudak ML. Recombinant hG-CSF does not prevent nosocomial infection in VLBW infants with early neutropenia. (Presented by Devyani Belsare) SPR poster presentation, 2005

Teng RJ, Wu TJ, Sharma R, Garrison RD, Hudak ML. Early hypotension requring inotropes is associated with severe intraventricular hemorrhage in premature (GA 30 Weeks) infants. SPR poster presentation, 2005

Sharma R, Hudak ML, Wludyka P, Teng RJ, Tepas JJ III, Haycook L. Early postnatal maternal milk feedings reduce risk for late onset blood stream infections in very low birth weight infants. SPR poster presentation, 2006

Teng RJ, Williams P, Wu TJ, Sharma R, Garrison RD, Hudak ML Evaluation of a transcutaneous bilirubinometer as an outpatient screening tool for neonatal hyperbilirubinemia. SPR poster presentation, 2006

Teng RJ, Williams P, Wu TJ, Hudak ML. Is sternal transcutaneous bilirubinometer (TCB) reading a better outpatient screening tool for neonatal hyperbilirubinemia (NH). SPR poster presentation, 2007

Gowda GM, Bakhutashvili I, Ge W, Teng RJ, North P, Konduri GG. Effect of selective serotonin reuptake inhibitor (SSRI)-Fluoxetine (Fl) on pulmonary circulation in fetal rabbit. SPR poster presentation, 2008

Teng RJ, Eis A, Bakhutashvili I, Arul N, Konduri GG., Increased superoxide (O2-) production from NADPH oxidase (NOX) contributes to the impaired angiogenesis of fetal pulmonary arteries with in utero pulmonary hypertension (PH). SPR platform presentation, 2008

Teng RJ, Pritchard KA, Jr., Shi Y, Konduri GG. Sepiapterin improves the angiogenesis in pulmonary artery endothelial cells from developing lungs with in utero pulmonary hypertension. AHA Scientific Session poster presentation, 2008

Teng RJ, Du J-H, Eis A, Shi Y, Pritchard KA, Konduri GG. Sepiapterin improves NO availability in pulmonary artery endothelial cells (PAEC) from lambs with in utero pulmonary hypertension. SPR Poster Symposium, 2009

Konduri GG, Teng RJ, Pritchard KA, Jr. Endothelial nitric oxide synthase (eNOS) - mitochondrial interactions regulate in vitro angiogenesis of fetal pulmonary artery endothelial cells (PAEC). SPR Poster Symposium, 2009

Du J, Guan T, Teng RJ, Pritchard KAP, Jr., Shi Y. The role of MAP4K3 in angiogenesis in aortic endothelial cells. ATVB Annual Symposium, Poster Presentation, 2010

Du J, Teng RJ, Guan T, Xu H, Pritchard KA, Shi Y. The role of autophagy in angiogenesis in aortic endothelial cells. Experimental Biology Meeting, Platform presentation (2nd prize winner), 2010

Teng RJ, Wu TJ, Eis A, Pritchard KA, Konduri GG. Free nitrotyrosine (NT) impairs the angiogenesis of pulmonary artery endothelial cells (PAEC) from developing lungs via eNOS uncoupling. SPR Platform Presentation, 2010

Afolayan AJ, Davis JM, Eis A, Teng RJ Konduri GG. Down Regulation of Manganese Superoxide Dismutase (MnSOD) Activity and Expression Contribute to Endothelial Dysfunction in Persistent Pulmonary Hypertension of the Newborn (PPHN)., SPR Platform Presentation, 2011

Teng RJ, Eis A, Bakhutashvili I, Konduri GG. Nitrotyrosine (NT) Inhibits Endothelial Nitric Oxide Synthase (eNOS) - Mitochondria Interactions in Pulmonary Artery Endothelial Cells (PAEC) from Developing Lungs. SPR Poster Presentation, 2011

Teng RJ, Du J, Guan T, Eis A, Shi Y, Konduri GG., Increased Autophagy in Pulmonary Artery Endothelial Cells (PAEC) Is Associated with Impaired Angiogenesis in Fetal Lambs with In Utero Persistent Pulmonary Hypertension (PPHN). SPR Poster Presentation, 2011

Powers B, Teng RJ, Cohen S, Konduri GG., Altered markers of cerebral angiogenesis in a fetal lamb model of persistent pulmonary hypertension., AAP NCE, Chicago, 09/19/2013 - 09/21/2013

**COMMITTEE SERVICE:**

**Medical College of Wisconsin**

07/01/2008 - Present Member, Scholarship Oversight Committee, Neonatology, Pediatrics, Medical College of Wisconsin

04/01/2021 - Present Member, Professional Health Committee of Children's Wisconsin, Neonatology, Pediatrics, Children's Wisconsin

07/01/2021 - Present Member, MCW Library Committee, Medical College of Wisconsin

**EXTRAMURAL TEACHING:**

**Resident and Fellow Education**

1993 - 1997 National Taiwan University, Lecturer of Pediatrics, regular lectures of apnea of prematurity and intraventricular hemorrhage once a month. Journal club with neonatology fellows once a month. Bedside teaching with medical students 6 hours a week

**MCW STUDENTS, FACULTY, RESIDENTS AND CLINICAL/RESEARCH FELLOWS MENTORED:**

**Medical Students**

07/01/2011 - 05/31/2012 Rachel K. Gentile, MCW

05/01/2013 - 06/30/2016 Kent S. Tadokoro, bench research, MCW, Publication in AJRCMB

05/01/2014 - 06/30/2017 Emily Callan, Bnch research, MCW, 2015 SPR Student Research Award and 2019 SPR House Staff Research Award

05/20/2016 - 08/17/2019 Nathan J. Alcasid, Bench research, Medical College of Wisconsin

05/01/2017 - 07/31/2019 Savani Aluru, bench research, MCW

**Clinical/Research Fellows**

01/2007 - 08/2008 Nandini Arul, MCW

07/2008 - 06/2009 Girish Gowda, MCW

07/2008 - 06/2009 Carmon Brione, MCW

07/2009 - 06/2010 Jonathan Ramprasad, MCW

07/2009 - 06/2012 Scott Welak, MCW

07/2009 - 06/2012 Adeleye Afolayan, MCW

07/2010 - 06/2013 Chaitali Mahajan, MCW

07/01/2011 - 06/16/2017 Ruchi Singla, bench reearch, MCW

07/01/2011 - 06/15/2014 Katakeya Makker, bench research, MCW

07/01/2012 - 06/16/2015 Abha Yadav, bench research, MCW

07/01/2014 - 06/30/2015 Ramkumar Natarajan, bench research, MCW

07/01/2014 - 06/16/2017 Megha Sharma, bench research, MCW

07/01/2015 - 06/15/2018 Xianxing Hu, bench research, MCW

07/01/2016 - 06/16/2019 Sheraden Seward, Bench research, MCW

07/01/2017 - 2020 Rose Doolittle, bench research, MCW

07/01/2018 - 06/20/2021 Devashis Mukherjee, Bench research, MCW

07/01/2021 - Present Emily Callan, Bench research, MCW

**EXTRAMURAL STUDENTS, FACULTY, RESIDENTS, AND CLINICAL/RESEARCH FELLOWS MENTORED:**

**Clinical/Research Fellows**

1993 - 1994 Ji-Ping Chang, National Taiwan University

1993 - 1994 Hsien-Jia Huang, National Taiwan University

1993 - 1996 Tzong-Jin Wu, National Taiwan University
1994 - 1995 Shaw-Hsuen Hsia, National Taiwan University
1995 - 1997 Hsin-Jin Chen, National Taiwan University
1995 - 1997 Jen-Ruei Tang, National Taiwan University
1996 - 1997 Frank Li Lu, National Taiwan University
1996 - 1997 Po-Nien Tsao, National Taiwan University

**Residents**

2004 - 2006 Gisela Porras, UFHSC-Jacksonville
2004 - 2005 Devyani Belsare, UFHSC-Jacksonville
08/01/2013 - 06/30/2016 Nicole Rau, Children Hospital of Wisconsin

**COMMUNITY SERVICE ACTIVITIES:**

07/01/2012 - Present Principal of Milwaukee Chinese School (Traditional Chinese)

**CLINICAL EXPERENCE:**

INO treatment of the full term and premature infants
Head and abdominal ultrasound diagnosis. Able to do echocardiogram for PDA, pericardial effusion, non-complex congenital heart diseases and PPHN diagnosis
Care of the PPHN patient both by hyperventilation or non-hyperventilation way (Dr. Wung JT). Have been trained in ECMO by UAB/TCHA training program but surgeon always take care of the machine themselves in that program.
Competent in peripheral arterial line and PICC placement. Have trained more than ten charge nurses and six neonatology fellows in PICC placement in UAB program and supervisor for ARNP in UFHSC at Jacksonville
Management of high frequency ventilator including HFOV, HFJV, and HFFI.

**RECENT RESEARCH ACTIVITY:**

Mechanisms involved in the development of bronchopulmonary dysplasia
Single nucleotide polymorphism in bronchopulmonary dysplasia
AMP activated protein kinase in vascular biology
Hyperoxia lung injury
Role of autophagy in oxidative stress induced endothelial cell dysfunction
Effect of caffeine mon hyperoxic lung injury
Glucose metabolism in endothelial cells and cancer cells
The protective role of AMP activated kinase (AMPK) in pulmonary hypertension and hyperoxic lung in jury
Mitochondrial function in developing lungs
Phenotypical changes of pulmonary artery endothelial cells in pulmonary hypertension
ER stress in developing lungs
Role of GTP-cyclohydrolase-1 in pulmonary hypertension
Nogo-B receptor in developing lungs
NADPH oxidase 2 in pulmonary hypertension
NADPH oxidase in the development of necrotizing enterocolitis
Role of reactive oxygen species (ROS) and reactive nitrogen species (RNS) in vascular biology
Myeloperoxidase in neonatal lung and kidney disorder

**RESEARCH ACTIVITY INVOLVED IN THE PAST:**

Management of pulmonary hypertension in neonates
Endogenous production of urate protects heart from peroxynitrite induced protein nitration.
Free nitrotyrosine incorporation into cytoskeleton of the pulmonary artery endothelial cells associated with endothelin-1, thromboxane B2, and prostacyclin production. (Manuscript in preparation) Part of this research has been presented in 2001 SSPR/SPR and 2002 SSPR. Trainee Travel award from SSPR 2002 and 2002 SPR House Officer Research Award
The relationship of growth factors and kidney.
The free radical research especially with peroxynitrite. Mentors involved Joseph S. Beckman and Dale A.

Parks.

Angiogenic activity of the pulmonary artery endothelial cells with and without pulmonary hypertension

The function of neonatal neutrophil and influence of cytokine

Peroxynitrite induced coronary vasodilation and impairment of ventricular function in isolated rat heart. (Manuscript in revision by Drs. Stanley A. Digerness and Joseph S. Beckman)

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**Refereed Journal Publications/Original Papers**


1. Teng RJ, Wang PJ, Wang TR, Shen YZ. Apert syndrome associated with septo-optic dysplasia. Pediatr Neurol 1989;5:384-388.
2. Teng RJ, Tsao YK, Chang MH, Chen CL, Lee CY. An autopsy case of Reye's syndrome associated with acute pancreatitis, acute renal failure and disseminated intravascular coagulopathy. J Formosan Med Assoc 1990;89:887-891.
3. Wu TJ, Teng RJ, Chang MH, Chen CC. Congenital short bowel syndrome: Report of a case treated with home central parenteral nutrition. J Formosan Med Assoc 1992; 91:470-472.
4. Chou YH, Teng RJ, Yau KIT, Yang CM. Retinopathy of prematurity: an analysis of risk factors. J Formos Med Assoc 1993;92:440-445.
5. Jou HJ, Ng KY, Teng RJ, Hsieh FJ. Doppler sonographic detection of reverse twin-twin transfusion after intrauterine death of the donor. J Ultrasound Med 1993;5:307-309.
6. Tsai WH, Teng RJ, Chu JS, Chang MH, Ho MM. Neonatal Dubin-Johnson syndrome. J Pediatr Gastroenterol Nutr 1994;18:253-256.
7. Jou HJ, Ng KY, Shyu MK, Teng RJ, Hsieh FJ, Tsaur GT, Chien CH. Perinatal outcome of one fetal death in twin-twin transfusion syndrome. J Med Ultrasound 1994; 2:142-146.
8. Wu TJ, Teng RJ.c Diffuse neonatal haemangiomatosis with intrauterine haemorrhage and hydrops fetalis. Eur J Paediatr 1994;153:759-761. (original article)
9. Wu TJ, Teng RJ,c Yau KIT. Persistent pulmonary hypertension of the newborn treated with magnesium sulfate in premature neonates. Pediatrics 1995;96:472-4.
10. Shyu MK, Shih JC, Lee CN, Wu CC, Jou HJ, Hsieh FJ, Chang MH, Yau KIT, Teng RJ, Lin GJ, Li YW. Extrauterine twin-twin transfusion syndrome after birth in conjoined twins. Ultrasound Obstet Gynecol 1995;6:447-50.
11. Tsau YK, Hsu JN, Chen CH, Teng RJ, Chen HC. Decreased urinary epidermal growth factor in children with acute renal failure: epidermal growth factor/ creatinine ratio not a reliable parameter for urinary epidermal growth factor excretion. Pediatr Res 1996;39:20-4.
12. Tsao PN, Teng RJ, Wu TJ, Yau KIT, Wang PJ. Nonprogressive congenital unilateral ventriculomegaly. Pediatr Neurol 1996;14:66-8.
13. Tsai MJ, Tang JR, Teng RJ,c Lee PI, Chang MH. Necrotizing bowel lesions complicated by Pseudomonas septicaemia in previously healthy infants. Eur J Paediatr 1996;155: 216-8.
14. Lin SW, Lin DT, Hsieh SW, Hsieh PK, Teng RJ, Tsou KI, Lin KS. Hemolytic disease of the newborn caused by anti-M antibody. J Formosan Med Assoc 1996; 95:390-2.
15. Wu TJ, Teng RJ,c Yau KIT. Transfusion-related acute lung injury treated with surfactant in a neonate. Eur J Paediatr 1996;155:589-91.
16. Jou HJ, Teng RJ, Shyu MK, Shih JC, Su CH, Chen HY, Hsieh FJ. Perinatal outcome in monochorionic twin pregnancy complicated with one fetal death after 20 weeks. J Matern Fetal Invest 1996;6:145-7.
17. Jeng SF, Tsao CC, Chen LC, Teng RJ, Yau KIT, Jan MH. Reliability of the Neonatal Neurobehavioral Examination-Chinese Version. Early Hum Dev 1996; 45:191-202.
18. Lin SC, Teng RJ, Wang JK. Management of severe pulmonary hypertension in an infant with obstructed total anomalous pulmonary venous return using management sulfate. Int J Cardiol 1996;56:131-5. (original article)
19. Fan PC, Teng RJ, Chen JC, Huang CH, Yau KIT. Rigid bronchoscopy and jet ventilation in an extremely low birthweight infant. J Formos Med Assoc 1996; 96: 937-9.
20. Tsau YK, Chen CH, Chang MH, Teng RJ, Lu MY, Lee PI. Nephromegaly and elevated hepatocyte growth factor in children with biliary atresia. Am J Kidney Dis 1997; 29:188-92.
21. Chang PF, Teng RJ, Yau KIT, Chen CL, Chen CC. Lipoblastomatosis in a newborn infant. Pediatr Surg Int 1997;12:71-2.
22. Teng RJ, Wu TJ, Ho MM. Mumps infection complicated by transient hyperinsulinemic hypoglycemia. Pediatr Infect Dis J 1997;16:416-7.

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24. Lin YT, Teng RJ, Chiu HC, Yau KIT, Chang MH, Shen YZ. An unusual presentation of multiple congenital melanocytic nevi with a limb distribution. Dermatology 1997;194:362-3.
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26. Yang CM, Chen MS, Tsou Yau KI, Teng RJ. Comparison of cryotherapy and laser photocoagulation in stage III retinopathy of prematurity. J Formos Med Assoc 1997;96:734-9.
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29. Lin JH, Hou JW, Teng RJ, Tien HF, Lin KH. Jacobsen distal 11q deletion syndrome with a myelodysplastic change of hemopoietic cells. Am J Med Genet 1998;75:341-4.
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33. Jeng SF, Tsou KI, Teng RJ. Neurobehavioral development at term in very low-birthweight infants and normal term infants in Taiwan. Early Hum Dev 1998; 51:235-245.
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45. Sharma R, Tepas JJ 3rd, Hudak ML, Mollitt DL, Wludyka PS, Teng RJ, Premachandra BR. Neonatal gut barrier and multiple organ failure: role of endotoxin and proinflammatory cytokines in sepsis and necrotizing enterocolitis. J Pediatr Surg 2007;42:454-461.
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Pritchard KA, Konduri GG. Domain Mapping of the Heat Shock Protein 70 reveals that Glutamic acid 446 and Arginine 447 are Critical for Regulating Superoxide Dismutase-2 Function. J Biol Chem 2017; 292:2369-2378.

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**Books, Chapters, and Reviews**

1. Teng RJ. Autophagy and NADPH Oxidase Activity Tends to Regulate Angiogenesis in Pulmonary Artery Endothelial Cells with Pulmonary Hypertension. Chapter 21 in “Autophagy: Cancer, Other Pathologies, Inflammation, Immunity, Infection, and Aging.” Vol 2; 2013 ed. By M.A. Hayat.
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3. Teng RJ. Oxidative stress in neonatal lung diseases. Chapter 3 in “Oxidative Stress in Lung Diseases” 2019, Vol 1. pp51-84. By Chakraborti S, Chakraborti T, Das SK, Chattopadhyay D.

**Abstracts**

1. Beckman JS, Reiter C, Teng R-J. Peroxynitrite is a key intermediate in tyrosine nitration catalyzed by peroxidases from nitrite as well as from nitric oxide plus superoxide. Biology of Nitric Oxide, Stockholm 1999
2. Teng R-J, Ye YZ, Parks DA, Beckman JS. Endogenous urate production prevents myocardium from peroxynitrite induced protein nitration. SPR 2000 poster presentation
3. Teng R-J, Digerness S, Beckman JS. Peroxynitrite induces coronary vasodilation in isolated rat heart. SSPR

2001 platform presentation

4. Teng R-J, Bulger A, Wu TJ, Namasivanum A, Philips JB, Carlo WA. Nitrotyrosine affects proliferation, enzyme expression, and prostaglandin production by neonatal pulmonary artery endothelial cells. SSPR 2001 platform presentation (House Staff Research Award)
5. Teng R-J, Bulger A, Wu TJ, Namasivanum A, Philips JB, Carlo WA. Nitrotyrosine affects proliferation, enzyme expression, and prostaglandin production by neonatal pulmonary artery endothelial cells. SPR 2001 platform presentation
6. Teng R-J, Bulger A, Wu TJ, Namasivanum A, Philips JB, Carlo WA. Nitrotyrosine affects pulmonary artery endothelial cell eicosanoid and endothelin production in a time dependent fashion. SSPR 2002 platform presentation
7. Teng R-J, Bulger A, Wu TJ, Namasivanum A, Philips JB, Carlo WA. Nitrotyrosine affects pulmonary artery endothelial cell eicosanoid and endothelin production in a time dependent fashion. SPR 2002 poster presentation
8. Teng R-J, Ambalavanan N, Wu TJ, Bulger A, Philips JB. Superoxide and NO are both required for nitrotyrosine-mediated apoptosis of pulmonary artery endothelial cells. SPR 2003 poster presentation
9. Teng R-J, Wu TJ, Garrison RD, Sharma R, Hudak ML. Early neonatal hypotension in premature infants born to hypertensive mothers. SPR 2004 poster presentation
10. Teng R-J, Wu TJ, Sharma R, Garrison RD, Hudak ML. Early hypotension requring inotropes is associated with severe intraventricular hemorrhage in premature (GA 30 Weeks) infants. SPR 2005 poster presentation
11. Sharma R, Hudak ML, Wludyka P, Teng R-J, Tepas JJ III, Haycook L. Early postnatal maternal milk feedings reduce risk for late onset blood stream infections in very low birth weight infants. SPR 2006 poster presentation
12. Teng R-J, Williams P, Wu TJ, Sharma R, Garrison RD, Hudak ML Evaluation of a transcutaneous bilirubinometer as an outpatient screening tool for neonatal hyperbilirubinemia. SPR 2006 poster presentation
13. Teng R-J, Williams P, Wu TJ, Hudak ML. Is sternal transcutaneous bilirubinometer (TCB) reading a better outpatient screening tool for neonatal hyperbilirubinemia (NH). SPR 2007 poster presentation
14. Gowda GM, Bakhutashvili I, Ge W, Teng R-J, North P, Konduri GG. Effect of selective serotonin reuptake inhibitor (SSRI)-Fluoxetine (Fl) on pulmonary circulation in fetal rabbit. SPR 2008 poster presentation
15. Teng R-J, Eis A, Bakhutashvili I, Arul N, Konduri GG. Increased superoxide (O2-) production from NADPH oxidase (NOX) contributes to the impaired angiogenesis of fetal pulmonary arteries with in utero pulmonary hypertension (PH). SPR 2008 platform presentation
16. Teng R-J, Pritchard KA, Jr., Shi Y, Konduri GG. Sepiapterin improves the angiogenesis in pulmonary artery endothelial cells from developing lungs with in utero pulmonary hypertension. AHA 2008 Scientific Session poster presentation
17. Teng R-J, Du J-H, Eis A, Shi Y, Pritchard KA, Konduri GG. Sepiapterin improves NO availability in pulmonary artery endothelial cells (PAEC) from lambs with in utero pulmonary hypertension. SPR 2009 Poster Symposium
18. Konduri GG, Teng R-J, Pritchard KA, Jr. Endothelial nitric oxide synthase (eNOS) – mitochondrial interactions regulate in vitro angiogenesis of fetal pulmonary artery endothelial cells (PAEC). SPR 2009 Poster Symposium
19. Du J, Guan T, Teng R-J, Pritchard KAP, Jr., Shi Y. The role of MAP4K3 in angiogenesis in aortic endothelial cells. ATVB 2010 Annual Symposium, Poster Presentation
20. Du J, Teng R-J, Guan T, Xu H, Pritchard KA, Shi Y. The role of autophagy in angiogenesis in aortic endothelial cells. EB 2010 Meeting, Platform presentation (2nd prize)
21. Teng R-J, Wu TJ, Eis A, Pritchard KA, Konduri GG. Free nitrotyrosine (NT) impairs the angiogenesis of pulmonary artery endothelial cells (PAEC) from developing lungs via eNOS uncoupling. SPR 2010 Platform Presentation
22. Afolayan AJ, Davis JM, Eis A, Teng R-J, Konduri GG. Down regulation of manganese superoxide dismutase (MnSOD) activity and expression contribute to endothelial dysfunction in persistent pulmonary hypertension of the newborn (PPHN). SPR 2011 Platform Presentation
23. Teng R-J, Eis A, Bakhutashvili I, Konduri GG. Nitrotyrosine (NT) inhibits endothelial nitric oxide synthase (eNOS) – mitochondria interactions in pulmonary artery endothelial cells (PAEC) from developing lungs. SPR 2011 Poster Presentation
24. Teng R-J, Du J, Guan T, Eis A, Shi Y, Konduri GG. Increased autophagy in pulmonary artery endothelial

cells (PAEC) is associated with impaired angiogenesis in fetal lambs with in utero persistent pulmonary hypertension (PPHN). SPR 2011 Poster Presentation.

25. Welak SR, Teng R-J, Pritchard KA, Rentea RM, Fredrich KM, Gourlay DM. Developmental changes of NADPH oxidase activity and subsequent effects on a rat model of necrotizing enterocolitis. 2012 7th Annual Academic Surgical Congress Oral Presentation.
26. Teng R-J, Konduri GG. AMP Kinase (AMPK) activation improves angiogenesis in persistent pulmonary hypertension of the newborn (PPHN). SPR 2012 Platform Presentation
27. Mahajan C, Teng R-J, Eis A, Afolayan A, Konduri GG. Decreased prostaglandin I2 synthase (PGIS) expression, activity, and post-translational modifications in persistent pulmonary hypertension of the newborn (PPHN). SPR 2012 Poster Presentation
28. Welak S, Teng R-J, Pritchard KA Jr., Gourley D. Developmental changes in NADPH oxidase in a neonatal rat model of necrotizing enterocolitis. SPR 2012 Poster Presentation.
29. Afolayan AJ, Eis A, Bakhutashivili I, Teng R-J, Konduri GG. Heat shock protein 70 (Hsp70) regulates manganese superoxide dismutase (MnSOD) activity and mitochondrial oxidative stress in PPHN. SPR 2012 Platform Presentation
30. Afolayan AJ, Eis A, Bakhutashivili I, Teng R-J, Konduri GG. Heat shock protein 70 (Hsp70) regulates manganese superoxide dismutase (MnSOD) activity and mitochondrial oxidative stress in PPHN. 2012 MCW Fellow Research Day. (1st prize winner)
31. Welak S, Teng R-J, Pritchard KA, Jr., Gourley D. Developmental changes in NADPH oxidase in a neonatal rat model of necrotizing enterocolitis. 2012 MCW Fellow Research Day. (3rd prize winner).
32. Teng R-J, Zhao B, Miao RQ, Konduri GG. Role of Nogo-B signaling pathway in fetal pulmonary artery endothelial cell (PAEC) angiogenesis. SPR 2013 Platform Presentation
33. Cohen SS, Teng R-J, Miao RQ, Konduri GG. Hyperoxia alters Nogo protein signaling in the developing brain. SPR 2013 Poster Presentation.
34. Mahajan C, Teng R-J, Eis A, Konduri GG. Reciprocal changes in endothelial prostacyclin (PGI2) and thromboxane A2 (TXA2) signaling in fetal lambs with persistent pulmonary hypertension of the newborn (PPHN). SPR 2013 Poster Presentation
35. Makker K, Teng R-J, Afolayan A, Konduri GG. Increased hypoxia inducible factor-1? (HIF-1?) signaling is associated with oxidative stress in pulmonary artery endothelial cell (PAEC) from fetal lambs with persistent pulmonary hypertension (PPHN). SPR 2013 Poster Presentation
36. Singla R, Teng R-J, Konduri GG. Altered activity of thioredoxin system in a fetal lamb model of persistent pulmonary hypertension of the newborn (PPHN). SPR 2013 Poster Presentation.
37. Powers B, Teng R-J, Cohen S, Konduri GG. Altered markers of cerebral angiogenesis in a fetal lamb model of persistent pulmonary hypertension. AAP NCE 2013 Oral Presentation.
38. Tadokoro KS, Teng R-J, Konduri GG, Miao RQ. NgBR modulates pulmonary artery smooth muscle cell function in developing lungs. AMA 2013 Medical Student Poster Presentation
39. Makker M, Teng R-J, Afolayan A, Duff B, Eis A, Konduri GG. Altered hypoxia inducible factor–1? (HIF-1?) signaling contributes to impaired angiogenesis of pulmonary artery endothelial cells (PAEC) in persistent pulmonary hypertension (PPHN). 2014 MCW Fellow's Scholarship Recognition Day (2nd prize winner)
40. Singla R, Teng R-J, Konduri GG. Cellular redox status affects thioredoxin (TRX) system in a fetal lamb model of persistent pulmonary hypertension of the newborn. 2014 MCW Fellow's Scholarship Recognition Day
41. Yadav A, Teng R-J, Michalkiewicz T, Eis A, Konduri GG. The activity of AMP-activated protein kinase (AMPK) and role of metformin in hyperoxic lung injury. 2014 MCW Fellow's Scholarship Recognition Day
42. Tadokoro KS, Rana U, Konduri GG, Miao RQ, Teng R-J. Nogo-B receptor (NgBR) expression modulates the pulmonary artery smooth muscle cell (PASMC) function in developing lungs. 2014 SPR Poster Presentation
43. Makker M, Teng R-J, Afolayan A, Duff B, Eis A, Konduri GG. Altered hypoxia Inducible factor–1? (HIF-1?) signaling contributes to impaired angiogenesis of pulmonary artery endothelial cells (PAEC) in persistent pulmonary hypertension (PPHN). 2014 SPR Platform Presentation
44. Singla R, Teng R-J, Konduri GG. Cellular redox status affects thioredoxin (TRX) system in a fetal lamb model of persistent pulmonary hypertension of the newborn. 2014 SPR Poster Presentation
45. Yadav A, Teng R-J, Eis A, Michaelciwicz T, Konduri GG. AMP-activated protein kinase (AMPK) function and its modulation by metformin in hyperoxic lung injury. 2014 AAP NCE Platform Presentation
46. Konduri GG, Callan E, Afolayan AJ, Teng R-J. Decreased PGC-1?-SIRT1 signaling leads to impaired

angiogenesis in persistent pulmonary hypertension of the newborn (PPHN). 2015 EB Symposium Poster Presentation

47. Afolayan AJ, Eis A, Mickalkiewicz T, Teng R-J, Konduri GG. Decreased NO availability contributes to impaired mitochondrial biogenesis and oxidative stress in fetal lambs with persistent pulmonary hypertension. 2015 EB Symposium Poster Presentation
48. Yadav A, Teng R-J, Konduri GG. Altered AMP-activated protein kinase (AMPK) function and protective effect of metformin in hyperoxic lung injury. 2015 MCW Fellow's Scholarship Recognition Day (2nd prize winner)
49. Teng R-J, Cai S, Eis A, Afolayan AJ, Konduri GG. GTP-cyclohydrolase-1 (GCH1) modulates pulmonary artery endothelial cells' (PAEC) mitochondrial function. 2015 SPR Poster Presentation
50. Jing X, Michalkiewicz T, Konduri GG, Teng R-J. Caffeine increases GTP-cyclohydrolase-1 (GCH1) activity and angiogenesis in rat pup lungs exposed to hyperoxia 2015 SPR Platform Presentation
51. Tadokoro KS, Rana U, Jing X, Eis A, Konduri GG, Miao QR, Teng R-J. Nogo-B receptor (NgBR) is essential for protecting pulmonary artery smooth muscle cell (PASMC) in response to endoplasmic reticulum (ER) stress. 2015 SPR Poster Presentation
52. Yadav A, Teng R-J, Konduri GG. Altered AMP-activated protein kinase (AMPK) function and protective effect of metformin in hyperoxic lung injury. 2015 SPR Poster Presentation
53. Konduri GG. Michalkiewicz T, Afolayan A, Sampath V, Broeckel U, Kazzi N, Simpson P, Teng R-J. A variant in mitochondrial manganese superoxide dismutase (SOD2) associates with risk of bronchopulmonary dysplasia (BPD) in prematurely born African American infants. 2015 SPR Poster Presentation
54. Afolayan AJ, Teng R-J, Konduri GG. Decreased NO availability contributes to impaired mitochondrial biogenesis and oxidative stress in fetal lambs with persistent pulmonary hypertension. 2015 SPR Platform Presentation
55. Callan E, Teng R-J, Konduri GG. Decreased PGC-1?-SIRT1 signaling leads to impaired angiogenesis in persistent pulmonary hypertension of the newborn (PPHN). 2015 SPR Platform Presentation (2015 SPR Student Research Award)
56. Natarajan R, Michalkiewicz T, Teng R-J, Konduri GG. Postnatal exposure to systemic lipopolysaccharide (LPS) leads to sustained inhibition of alveolar growth in neonatal rat lungs. 2015 SPR Poster Presentation
57. Jing X, Michalkiewicz T, Konduri GG, Teng R-J. Caffeine Protects Rat Pup Lungs Exposed to Hyperoxia by Decreasing Inflammation and Apoptosis. 2016 SPR Poster Presentation
58. Teng R-J, Konduri GG. Caffeine Modulates Endoplasmic Reticulum (ER) Stress in Hyperoxia-Exposed Neonatal Rat Lungs. 2016 SPR Poster Presentation
59. Michalkiewicz T, Johnson HM, Jing X, Teng R-J, Afolayan A, Konduri GG. Endothelial Hypoxia Inducible Factor-1? (HIF-1?) Expression Regulates Alveolar and Vascular Growth and Response to Hyperoxia in Neonatal Mice. 2016 SPR Poster Presentation
60. Sharma M, Teng R-J, Afolayan A, Konduri GG. Downregulation of Liver Kinase B1-5'AMP Activated Protein Kinase Signaling Contributes to Decreased Mitochondrial Biogenesis in Persistent Pulmonary Hypertension of the Newborn (PPHN). 2016 SPR Poster Presentation
61. Sharma M, Afolayan AJ, Teng R-J, Konduri GG. Coordinated Downregulation of Mitochondrial Transcription Factors and Angiogenesis and the Role of cGMP signaling in a Fetal Lamb Model of Persistent Pulmonary Hypertension of the Newborn (PPHN). 2016 SPR Poster Presentation
62. Alexander M, Teng R-J, Konduri GG, Afolayan AJ. A Superoxide Dismutase-2 (SOD2) Domain in Inducible Heat Shock Protein 70 (ihsp70) Regulates Mitochondrial Oxidative Stress in Vascular Cells. 2016 SPR Poster Presentation
63. Johnson H, Gray J, Sharma M, Afolayan AJ, Teng R-J, Konduri GG. Title: Liver Kinase B1 (LKB1) Regulates Mitochondrial Biogenesis and Angiogenesis in Vascular Endothelial Cells Through Activation of 5'AMP-activated Protein Kinase (AMPK). 2017 SPR Poster Presentation
64. Teng R-J, Konduri GG. Nogo-B Receptor (NgBR) Regulates the Function of Endoplasmic Reticulum (ER) and Mitochondria in the Fetal Pulmonary Artery Endothelial Cells (PAEC). 2017 SPR Poster Presentation
65. Jing X, Konduri GG, Teng R-J. Nogo-B Receptor Ligand, Nog-B modulates lung development in mice. 2017 SPR Platform Presentation
66. Hu X, Teng R-J, Konduri GG. The interaction between Pulmonary Artery Endothelial Cells (PAEC) and Pulmonary Artery Smooth Muscle Cell (PASMC) in Neonatal Lungs. 2017 SPR Poster Presentation
67. Rana U, Teng R-J, Johnson H, Michaelkiwicz T, Konduri GG. Hyperoxia alters the tip and stalk cell

phenotype specification and impairs angiogenesis function in pulmonary artery endothelial cells (PAEC). 2017 SPR Poster Presentation

68. Seward S, Michalkiewicz T, Zemanovic S, Johnson H, Teng R-J, Afolayan AJ, Konduri G. Exposure to hyperoxia leads to altered specification of tip and stalk cells and impaired angiogenesis in neonatal rats. 2018 SPR Platform Presentation
69. Teng R-J, Konduri GG. Nogo-B receptor (NgBR) modulates glucose metabolism in neonatal pulmonary artery endothelial cells (PAEC). 2018 SPR Poster Presentation
70. Jing X, Pritchard KA, Teng R-J. Inhibition of myeloperoxidase by N-acetyl lysyltyrosylcysteine amide (KYC) reduces hyperoxia-induced lung injury in neonatal rat. 2018 SPR Poster Presentation
71. Hu X, Teng R-J, Konduri GG. Altered Metabolic Phenotype of Pulmonary Artery Smooth Muscle Cells (PASMC) in Persistent Pulmonary Hypertension of the Newborn (PPHN) 2018 SPR Poster Presentation
72. Seward S, Johnson H, Michalkiewicz T, Adeleye J Afolayan, Jing X, Teng RJ, Konduri GG. Exposure to hyperoxia leads to altered specification of tip and stalk cells and impaired angiogenesis in neonatal rats. 2018 MCW Fellow Research Day (3rd prize).
73. Teng RJ, Pritchard KA, Kinduri GG. N-acetyl lysyltyrosylcysteine amide (KYC) Reduces Endoplasmic Reticulum Stress in Hyperoxic Neonatal Lungs. 2019 SPR poster Presentation
74. Jing X, Konduri GG, Teng RJ. Ameliorate hyperoxia lung damage through decrease endoplasmic reticulum (ER) stress. 2019 SPR poster Presentation
75. Callan E, Entringer B, Michalkiewicz T, Afolayan A, Teng RJ, Konduri GG. 5’ AMP-Activated Protein Kinase (AMPK) Regulates Angiogenesis Function Of PAECs Through Modulation Of PGC-1? Expression. 2019 SPR poster Presentation (2019 SPR House Officer Research Award)
76. Doolittle R, Michalkiewicz T, Entringer B, Teng RJ, Konduri GG. Liver kinase B1 (LKB1) in Endothelial Cells (EC) Regulates Angiogenesis and Alveolar Formation in the Developing Lungs. 2019 SPR
77. Konduri, Rana U, Entringer B, Callan E, Teng RJ, Michalkiewicz. Pulmonary Artery Endothelial Cell Phenotype Switch Impairs Angiogenesis in the Lungs in Persistent Pulmonary Hypertension of the Newborn. ATS 2019 International Conference
78. Jing X, Konduri GG, Teng RJ. Endoplasmic Reticulum (ER) Stress Impairs Neonatal Lung Growth. 2020 SPR.
79. Teng RJ, Pritchard KA, Jr, Konduri GG. Thiol-Containing KYC (N-Acetyl-Lysyltyrosylcysteine Amide) Provides Multi-Level Anti-Inflammatory Property Through Myeloperoxidase (MPO). 2020 SPR
80. Belsare D, Teng R-J, Wu TJ, Garrison RD, Hudak ML. Recombinant hG-CSF does not prevent nosocomial infection in VLBW infants with early neutropenia. SPR 2005 poster presentation
81. Mukherjee D, Afolayan JA, Teng RJ, Kriegel A, Konduri GG. MiR34c modulates angiogenesis in human endothelial cells through the canonical Notch pathway. 2021 Fellow Research Day (First Prize)
82. Teng RJ, Teng M, Konduri GG. Nogo-B Receptor (NgBR) Modulates Mitochondrial Function of Pulmonary Artery Endothelial Cells (PAECs) Through the Mitochondria-Associated Membrane (MAM). 2021 SPR