

Cell Molecular Biology and Cognitive Function Laboratory

Lab Introduction:

1. Therapeutic Reprogramming of Dextromethorphan for Epigenetic Methylation Dynamics in Pro-inflammatory Factor Promoter Genes of the Neonatal Brain Promotes Neurocognitive Retrieval After Perinatal Hypoxic Brain Injury: from the Molecular to Behavioral Level
2. A Precise Medicine Study for Neonatal asphyxia-induced Methylation Dynamics of Brain-derived Neurotrophic Factor DNA in the Neonatal Brain: from Molecular Level to Clinical Implication
3. Epigenetic Gene Regulation in Premature Infants with Necrotizing Enterocolitis and Therapeutic Strategy Development
4. Pathophysiology and Therapeutic Strategy for Perinatal Hypoxia-Induced Brain Injury in the Mammalian Developing Brain
5. Pathophysiology and Therapeutic Strategy in the Central Nervous System of Offspring from the Morphine/Heroin/Alcohol-Addicted Mothers
6. Children's Health and Medical Research

Principal Investigator:

San-Nan Yang, M.D, Ph.D.

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Educations:

PhD (University of California, Davis, USA)

MD (Department of Medicine, National Defense Medical Center, Taiwan)

Academic Experiences:

<u>Duration</u>	<u>Department</u>	<u>Position</u>
2017/03~present	Taiwan Pediatric Society	Director
2015/06~present	Department of Medical Education , E-Da Hospital, Taiwan	Deputy Director
2014/05~present	Taiwan Pediatric Society	Standing Directors
2014/08~present	Department of Medical Education , E-Da Hospital, Taiwan	Director
2013~present	School of Medicine, I-Shou University	Professor and Chairman
2013~present	Department of Pediatrics, E-Da Hospital, Taiwan	Professor and Director
2012~present	Department of Pediatrics, National Defense Medical Sciences	Adjunct Professor
2011/04~present	The Society of Neonatology, Taiwan	The Secretary-General
2010/08~present	National Sun Yat-sen University	Adjunct Professor
2012-08-2013/07	Graduate Institute of Medicine, College of Medicine,	Director

	Kaohsiung Medical University	
2012-08-2013/07	Academia Sinica/ Kaohsiung Medical University translational MD Program	Class teacher
2012-08-2013/07	National Health Research Institutes/ Kaohsiung Medical University Environmental Medicine MD Program	Class teacher
2009/08-2013/07	Graduate Institute of Medicine, College of Medicine, Kaohsiung Medical University	Dr. teacher
2007/08-2013/07	Graduate Institute of Medicine, College of Medicine, Kaohsiung Medical University	Professor
2007/08-2013/07	Kaohsiung Medical University Chung-Ho Memorial Hospital Neonatology	Director
2007/08-2013/07	Kaohsiung Medical University Chung-Ho Memorial Hospital Neonatology	ICU Director
2001/09-2007/07	Institute of Clinical Medicine, Chang Gung University	Professor
2006/09-2007/07	Chang Gung Memorial Hospital (Kaohsiung)/ Children's Department of Internal Medicine	Physician
2000/08–2001/08	National Defense Medical Center/ Department of physiology and Biophysics; Graduate Institute of Physiology (Ministry of Education to teach word No. 11095)	Professor
1999/10-2000/04	U.S. National Institutes of Health (NIH / NIEHS) academic research visiting scholar	
1995/08-2000/07	National Defense Medical Center/ Department of physiology and Biophysics; Graduate Institute of Physiology (Ministry of Education deputy Zi No. 23351)	

Team Members:

Chun-Hua Yang (Master-Class Research Technician)

Pei-Ling Wu, MD (Kaohsiung Medical University)

Hsien-Kuan Liu, MD

Wan- Ru Chen, Fellow

Techniques & Equipments

Molecular biology and system of medical research equipment and technology

Research Projects

Project titles	PI	Source	Duration
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Therapeutic Reprogramming of Dexamethorphan for Epigenetic Methylation Dynamics in Pro-inflammatory Factor Promoter Genes of the Neonatal Brain Promotes Neurocognitive Retrieval After Perinatal Hypoxic Brain Injury: from the Molecular to Behavioral Level	San-Nan Yang	Ministry of Science and Technology	2022/08/01 ~ 2025/07/31
A Precise Medicine Study for Neonatal asphyxia-induced Methylation Dynamics of Brain-derived Neurotrophic Factor DNA in the Neonatal Brain: from Molecular Level to Clinical Implication	San-Nan Yang	Ministry of Science and Technology	2018/08/01 ~ 2021/07/31
Effects of phthalate exposure on intestinal microbiota-immune-brain axis in newborns: an integrated approach from translation to molecular medicine	San-Nan Yang (project 3)	E-Da Hospital	2022/02/01 ~ 2023/01/31
The Beneficial Role of 2'-FL Human Milk Oligosaccharide in BDNF Promoter exon IV Gene Methylation for Hypoxia-Induced Neurodegeneration of the Neonatal Rat Brain in Precision Medicine	San-Nan Yang (Co-Director)	E-Da Hospital	2022/02/01 ~ 2023/01/31
Epigenetic Regulation in Proinflammatory factor gene expression in Preterm Infants with Necrotizing Enterocolitis and Therapeutic Strategy Development	San-Nan Yang (Co-Director)	E-Da Hospital	2019/03/01 ~ 2020/02/29
Pathogenesis of pro-inflammatory factors in gastrointestinal tract dynamics of premature neonates and drug therapy strategy	San-Nan Yang	E-Da Hospital	2018/03/01 ~ 2019/05/31

Publications:

1. Wu PL, Suen JL, Yang, Yang CH, Kuo KC, ***Yang SN**. (2021) Modulation of tumor necrosis factor- α in mesolimbic nucleus accumbens of newborn offspring by prenatal opioid exposure involves epigenetic histone regulation. **MEDIATOR OF INFLAMMATION**, pp10, doi.org/10.1155/2021/9828995. (IF 4.711)
2. Tey SL, Li CY, Lin LW, Chang LC, Chen YL, Chang FR, **Yang SN**, Tsai CC. (2021) Arecae pericarpium extract induces porcine lower-esophageal-sphincter contraction via muscarinic receptors. **BMC COMPLEMENTARY MEDICINE AND THERAPIES**, Nov 4;21(1):275. doi: 10.1186/s12906-021-03442-8. (IF 3.47)
3. Hung SC, Lin TI, Suen JL, Liu HK, Wu PL, Wu CY, Yang YSH, **Yang SN**, Yang YN. (2021) Phthalate exposure pattern in breast milk within a six-month postpartum time in southern Taiwan. **INTERNATIONAL JOURNAL ENVIRONMENTAL RESEARCH PUBLIC HEALTH**, May 26;18(11):5726. doi: 10.3390/ijerph18115726. (IF 3.6)
4. Liu HK, Yang YN, Tey SL, Wu PL, **Yang SN**, Wu CY (2021). Weight is more accurate than gestational age when estimating the optimal endotracheal tube depth in neonates. **CHILDREN (Basel)**, Apr 22;8(5):324. doi: 10.3390/children8050324. (IF 2.863)
5. Huang LY, Chen WJ, Yang YN, Wu CY, Wu PL, Tey SL, **Yang SN**, Liu HK. (2021). Maternal age, the disparity across regions and their correlation to sudden infant death syndrome in Taiwan: a nationwide cohort study. **CHILDREN (Basel)**, 2021 Sep 1;8(9):771. doi: 10.3390/children8090771. (IF 2.863)
6. Chi, WC, Kuo, LM, **Yang, SN**, Lee, YT, Wen, ZH, Tsui, KH, Hwang, TL, Zhang, YL, Sung, PJ (2021). Briarenols O and P: Novel briaranes from a cultured octocoral *Briareum excavatum* (Briareidae). **PHYTOCHEMISTRY LETTERS**, 41: 134–138. (IF 1.459)
7. Lin YY, CHEN NF, **Yang SN**, JEAN YH, KUO HM, CHEN PC, FENG CW, LIU YW, LAI YC,

- WEN ZH (2021) Effects of *Streptococcus thermophilus* on anterior cruciate ligament transection-induced early osteoarthritis in rats. **EXPERIMENTAL AND THERAPEUTIC MEDICINE**, 21: 222, 2021. (IF 2.447)
8. Chi WC, Kuo LM, Yang SN, Lee YT, Wen ZH, Tsui KHi, Hwang TL, Zhang YL, Sung PJ. (2020) Briarenols o and p: novel briaranes from a cultured octocoral *briareum excavatum* (Briareidae). **PHYTOCHEMISTRY LETTERS**, 41: 134–138 <https://doi.org/10.1016/j.phytol.2020.09.012>. (IF 1.459)
 9. Yang YN, Yang YC, Wu PL, Yang CH, Kuo KC, *Yang SN. (2020) Dextromethorphan suppresses lipopolysaccharide-induced epigenetic modifications in the tumor necrosis factor- α promoter gene locus in primary rat microglia. **MEDIATOR OF INFLAMMATION**, Dec 5;2020:9694012. doi: 10.1155/2020/9694012. eCollection 2020. (IF 4.711)
 10. Su TP, Kuo TJ, Yang SN, Lee GH, Lee YT, Wang YC, Chen JJ, Wen ZH, Hwang TL, Sung PJ. (2020) 11 β ,20 β -Epoxybriaranes from the Gorgonian Coral *Junceella fragilis* (Ellisellidae). **MARINE DRUGS**, Mar 31;18(4). pii: E183. doi: 10.3390/md18040183. (IF 4.073)
 11. Chen YF, Shih PC, Kuo HM, Yang SN, Lin YY, Chen WF, Tzou SJ, Liu HT, Chen NF. (2020) TP3, an antimicrobial peptide, inhibits infiltration and motility of glioblastoma cells via modulating the tumor microenvironment. **CANCER MEDICINE**, Apr 7. doi: 10.1002/cam4.3005. (IF 3.491)
 12. Cheng MH, Pan CY, Chen NF, Yang SN, Hsieh S, Wen ZH, Chen WF, Wang JW, Lu WH, Kuo HM. (2020) Piscidin-1 Induces Apoptosis via Mitochondrial Reactive Oxygen Species-Regulated Mitochondrial Dysfunction in Human Osteosarcoma Cells. **SCIENTIFIC REPORTS**, Mar 19;10(1):5045. doi: 10.1038/s41598-020-61876-5. (IF 3.998)
 13. Huynh TH, Chen PC, Yang SN, Lin FY, Su TP, Chen LY, Peng BR, Hu CC, Chen YY, Wen ZH, Wu TY, Sung PJ. (2019) New 1,4-Dienonesteroids from the Octocoral *Dendronephthya* sp. **MARINE DRUGS**, Sep 11;17(9). pii: E530. doi: 10.3390/md17090530. (IF 4.073)
 14. Feng CW, Chen NF, Sung CS, Kuo HM, Yang SN, Chen CL, Hung HC, Chen BH, Wen ZH, Chen WF. (2019) Therapeutic Effect of Modulating TREM-1 via Anti-inflammation and Autophagy in Parkinson's Disease. **FRONTIERS IN NEUROSCIENCE**, Oct;132:110700. doi: 10.1016/j.fct.2019.110700. (IF 4.5)
 15. Yang YN, Yang YSH, Lin IH, Chen YY, Lin HY, Wu CY, Su YT, Yang YJ, Yang SN, Suen JL. (2019) Phthalate exposure alters gut microbiota composition and IgM vaccine response in human newborns. **FOOD AND CHEMICAL TOXICOLOGY**, Oct;132:110700. doi: 10.1016/j.fct.2019.110700. (IF 4.679)
 16. Liu HK, Wu CY, Yang YN, Wu PL, He ZR, Yang SN, Tey SL. (2019) Association between maternal pre-delivery body mass index and offspring overweight/obesity at 1 and 2 years of age among residents of a suburb in Taiwan. **PEER JOURNAL**, Feb 25;7:e6473. doi: 10.7717/peerj.6473. (IF 2.98)
 17. Tzeng, WY, Huang, TY, Cherng, CG, *Yang, SN, Lung Yu. (2018) Social buffering prevents stress-induced decreases in dendritic length, branching in dentate granule cells and hippocampus-related memory performance. **NEUROPSYCHIATRY (London)**, 8(1), 197–213.
 18. Huang CH, Lin CW, Lee YC, Huang CY, Huang RY, Tai YC, Wang KW, Yang SN, Sun YT, Wang HK. (2018) Is traumatic brain injury a risk factor for neurodegeneration? A meta-analysis of population-based studies. **BMC NEUROLOGY**, 5;18(1):184. doi: 10.1186/s12883-018-1187-0. (IF 2.356)
 19. He, ZR, Lin, TI, Ko, PJ, Tey, SL, Yeh, ML, Wu, HY, Wu, CY, Yang, YC, Yang, SN, Yang YN. (2018) The beneficial effect of air cleanliness with ISO 14644-1 class 7 for surgical intervention in a neonatal intensive care unit: a 10-year experience. **MEDICINE (Baltimore)**, September, 97: 36(e12257). doi: 10.1097/MD.012257. (IF 1.889)
 20. Chen, NF, Sung, CS, Wen, ZH, Chen, CH, Feng, CW, Hung, HC, Yang, SN, Tsui, KH, Chen, WF. (2018) Therapeutic effect of platelet-rich plasma in rat spinal cord injuries. **FRONT NEUROSCIENCE** Apr 23;12:252. (IF 4.5)
 21. Wu, PL, Yang, YN, Suen, JL, Yang, YC S. H., Yang, CH and *Yang, SN. (2018) Long-lasting alterations in gene expression of postsynaptic density 95 and inotropic glutamatergic receptor subunit in the mesocorticolimbic system of rat offspring born to morphine-addicted mothers. **BIOMEDICAL RESEARCH INTERNATIONAL**, June 5437092. doi: 10.1155/2018/5437092. (IF 3.411)

22. Cheng, SY, Chen, NF, Kuo, HM, **Yang, SN**, Sung, CS, Sung, PJ, Wen, ZH, Chen, WF. (2018) Prodigiosin stimulates endoplasmic reticulum stress and induces autophagic cell death in glioblastoma cells. **APOPTOSIS**. May 2. doi: 10.1007/s10495-018-1456-9. (IF 4.543)
23. Chen, IL, Huang, HC, Chang, YH, Huang, HY, Yeh, WJ, Wu, TY, Suen, JL, ***Yang, SN**, Hung CH. (2018) Effect of antibiotic use for acute bronchiolitis on new-onset asthma in children. **SCIENTIFIC REPORTS**, Apr 17;8(1):6090. doi: 10.1038/s41598-018-24348-5. (IF 3.998)
24. Lai, YH, Chen, HL, **Yang, SN**, Chang, SJ, Chuang, LY, Wu, WC. (2018) The characteristics of premature infants with transient corneal haze. **PLOS ONE**, 13(3):e0195300. doi: 10.1371/journal.pone.0195300. (IF 2.74)
25. Yang, YN, Su, YT, Wu, PL, Yang, CH, Yang, YC, Suen, JL and ***Yang, SN**. (2018) Granulocyte-colony stimulating factor alleviates bacteria-induced neuronal apoptotic damage in the neonatal rat brain through epigenetic histone modification. **OXIDATIVE MEDICINE AND CELLULAR LONGEVITY** 9797146. doi: 10.1155/2018/9797146. (IF 6.543)
26. Liliang, PC, Liang, CL, Lu, K, **Yang, SN**, Hsieh, MT, Tai, YC, Wang, KW. (2018) Population-based study suggests an increased risk of Alzheimer's disease in Sjögren's syndrome. **CLINICAL RHEUMATOLOGY**, 37(4):935-941. doi: 10.1007/s10067-017-3940-y. (IF 2.394)
27. Kuo, CH, ***Yang, SN**, Tsai, YG, Hsieh, CC, Liao, WT, Chen, LC, Lee, MS, Kuo, HF, Lin, CH and Hung, CH. (2017) Long-acting β 2-adrenoreceptor agonists suppress type 1 interferon expression in human plasmacytoid dendritic cells via epigenetic regulation. **PULMONARY PHARMACOLOGY AND THERAPEUTICS**, S1094-5539(16)30122-5. doi: 10.1016/j.pupt.2017.10.004. (IF 2.681)
28. Lu, K, Liang, CL, Li, PC, Liliang, PC, Huang, CY, Lee, YC, Wang, KW, **Yang, SN**, Sun, YT, Wang, HK. (2017) Risk factors for myocardial dysfunction after traumatic brain injury: A one-year follow-up study. **INJURY** 17:30422-30429. (IF 2.106)
29. ***Yang, SN**. (2017) Pros and cons of red blood cell transfusion in extremely low birth weight infants. **PEDIATRICS AND NEONATOLOGY**, 58:203-204. (IF 2.083)
30. Liang, CL, Liliang, PC, Chen TB, Hsu, HC, Chung, FC, Wang, HK, **Yang, SN** and Chen, HJ. (2017) The risk of cataractogenesis after gamma knife radiosurgery: a nationwide population-based case-control study. **BMC OPHTHALMOLOGY**, 17:40. (IF 1.413)
31. Feng, CW, Hung, HC, Huang, SY, Chen, CH, Chen, YR, Chen, CY, **Yang, SN**, Wang, HD, Sung, PJ, Sheu, JH, Tsui, KH, Chen, WF, Wen, ZH. (2016) Neuroprotective Effect of the Marine-Derived Compound 11-Dehydrosinulariolide through DJ-1-Related Pathway in In Vitro and In Vivo Models of Parkinson's Disease. **MARINE DRUGS**, 14 (10): E187. (IF 1.889)
32. ***Kuo, CH, *Yang, SN**, Kuo, HF, Huang, MY, Huang, SK, Lin, YC, Hsieh, CC and Hung, CH (2016) Cysteinyl leukotriene receptor antagonist epigenetically modulates cytokine expression and maturation of human myeloid dendritic cells. **PULMONARY PHARMACOLOGY AND THERAPEUTICS**, 39: 28-37 (**equal contribution*) (IF 2.681)
33. Chen, CH, Sung, CS, Huang, SY, Feng, CW, Hung, HC, **Yang, SN**, Chen, NF, Tai, MH, Wen, ZH and Chen, WF. (2016) The role of the PI3K/Akt/mTOR pathway in glial scar formation following spinal cord injury. **EXPERIMENTAL NEUROLOGY**, 278: 27-41. (IF 4.691)
34. Liu, WC, **Yang, SN**, Wu, CW, Chen, LW and Chan, JYH. (2016) Hyperbaric oxygen therapy alleviates carbon monoxide poisoning-induced delayed memory impairment by preserving BDNF-dependent hippocampal neurogenesis. **CRITICAL CARE MEDICINE** 44: e29-35. (IF 7.414)
35. Wu, PL, Yang, YN, Tey, SL, Yang, CH, ***Yang, SN**, Lin, CS. (2015) Infantile form of muscle phosphofructokinase deficiency in a premature neonate. **PEDIATRICS INTERNATIONAL**, 57: 746-749. (IF 1.524)
36. Lin, YY, Lin, SC, Feng, CW, Chen, PC, Su, YD, Li, CM, **Yang, SN**, Jean, YH, Sung, PJ, Duh, CY and Wen, ZH. (2015) Anti-Inflammatory and analgesic effects of the marine-derived compound excavatolide B isolated from the culture-type formosan gorgonian briareum excavatum. **MARINE DRUGS** 13: 2559-2579.
37. Huang, SY, Sung, CS, Chen, WF, Chen, CH, Feng, CW, **Yang, SN**, Hung, HC, Chen, NF, Lin, PR, Chen, SC, Wang, HM, Chu, TH, Tai, MH, Wen, ZH. (2015) Involvement of phosphatase and tensin homolog deleted from chromosome 10 in rodent model of neuropathic pain. **JOURNAL OF NEUROINFLAMMATION** 12:59.
38. ***Yang, SN**. (2014) Nutritional approach to the prevention of complications of prematurity with

- emphasis on vitamin A supplementation. **PEDIATRICS AND NEONATOLOGY**, 55: 331-332.
39. **Yang, SN**, Hsieh, CC, Kao, HF, Lee, MS, Huang, MY, Kao, CH and Hung CH. (2014). The effects of environmental toxins on allergic inflammation. **ALLERGY ASTHMA IMMUNOLOGY RESEARCH**, 6: 478-484.
 40. Shiang, JC, Jan, RL, Tsai, MK, Hsieh, CC, Kuo, HF, Kuo, CH, **Yang, SN**, Huang, MY, Chen, LC, Hung, CH. (2014) Dipyrone & 2,5-dimethylcelecoxib suppress Th2-related chemokine production in monocyte. **INDIAN JOURNAL OF MEDICAL RESEARCH**, 140: 109-115.
 41. Chen, LC, Lin, YY, Jean, YH, Lu, Y, Chen, WF, **Yang, SN**, Wang, HM, Jang, IY, Chen, IM, Su, JH, Sung, PJ, Sheu, JH, and Wen, ZH (2014) Anti-Inflammatory and analgesic effects of the marine-derived compound comaparvin isolated from the crinoid *Comanthus bennetti*. **MOLECULES**, 19: 14667-14686.
 42. Feng, CW, Wen, ZH, Huang, SY, Hung, HC, Chen, CH, **Yang, SN**, Chen, NF, Wang, HM, Hsiao, CD, Chen, WF. (2014) Effects of 6-hydroxydopamine exposure on motor activity and biochemical expression in zebrafish (*Danio Rerio*) larvae. **ZEBRAFISH**, 11:227-39.
 43. Chen, NF, Huang, SY, Lu, CH, Chen, CL, Feng, CW, Chen, CH, Hung, HC, Lin, YY, Sung, PJ, Sung, CS, **Yang, SN**, Wang, HM, Chang, YC, Sheu, JH, Chen, WF, Wen, ZH. (2014) Flexibilide obtained from cultured soft coral has anti-neuroinflammatory and analgesic effects through the upregulation of spinal transforming growth factor- β 1 in neuropathic rats. **MARINE DRUGS**, 12: 3792-3817.
 44. Chen, IC, Lin, JY, **Yang, SN**, Dai, ZK. (2014) Congenital bronchoesophageal fistula repaired by bronchoscopy-assisted fistulectomy in a neonate. **KAOHSIUNG JOURNAL MEDICAL**, 30: 53-54.
 45. Tsai, MK, Hsieh, CC, Kuo, HF, **Yang, SN**, Kuo, CH, Huang, MY, Tsai, YM, Lee, MS, Hung, CH.(2014) Effect of Prostaglandin I₂ Analogs on Macrophage Inflammatory Protein 1 α in Human Monocytes Via I Prostanoid Receptor and Cyclic Adenosine Monophosphate. **JOURNAL OF INVESTING MEDICINE**, 62: 332-339.
 46. Hsu JH, Liou SF, **Yang, SN**, Wu BN, Dai ZK, Chen IJ, Yeh JL, Wu JR. (2013) B-type natriuretic peptide inhibits angiotensin II-induced proliferation and migration of pulmonary arterial smooth muscle cells. **PEDIATRIC PULMONOLOGY**, 49:734-744.
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 49. Kuo CH, Hsieh CC, Kuo HF, Huang MY, **Yang, SN**, Chen LC, Huang SK, Hung CH. (2013) Phthalates suppress type I interferon in human plasmacytoid dendritic cells via epigenetic regulation. **ALLERGY**, 68:870-879.
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 52. Kuo CH, Kuo HF, Huang CH, **Yang, SN**, Lee MS, Hung CH. (2013) Early life exposure to antibiotics and the risk of childhood allergic diseases: An update from the perspective of the hygiene hypothesis. **JOURNAL OF MICROBIOLOGY, IMMUNOLOGY, AND INFECTION**, 46: 320-329.
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 54. Kuo KC, Kuo HC, Huang LT, Lin CS, ***Yang, SN** (2013) The clinical implications of ABO blood groups in *Pseudomonas aeruginosa* sepsis in children. **JOURNAL OF MICROBIOLOGY, IMMUNOLOGY, AND INFECTION**, 46: 109-114.
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DEVELOPMENT, 88: 617-622.

56. Lai YH, Tseng HI, **Yang, SN**, Hsu HT, Chen HL. (2012) Neonatal intensive care unit-specific screening criteria for retinopathy of prematurity. **KAOHSIUNG JOURNAL OF MEDICAL SCIENCE**, 28:601-606.
57. Chen TH, **Yang, SN**. (2012) Hair-on-End Skull in an Infant without Anemia. **JOURNAL OF PEDIATRICS**. 161:367.
58. Chen TH, ***Yang, SN** (2012). An unusual orbital mass with dural tail signs. **INTERNAL MEDICINE**, 51:2063-2064.
59. Yang YN, Tseng HI, **Yang, SN**, Lu CC, Chen HL, Chen CJ. (2012) A strategy for reduction of antibiotic use in new patients admitted to a neonatal intensive care unit. **PEDIATRICS AND NEONATOLOGY** 53: 245-251.
60. Chien JW, Chu YT, **Yang, SN**, Kuo CH, Wang WL, Kuo PL, Jong YJ, Hung CH. (2012) Long-acting beta 2 agonists suppress IP-10 expression in human bronchial epithelial cells. **JOURNAL OF INVESTIG MEDICINE**. 60:1048-1053.
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62. Kuo CH, **Yang, SN**, Kuo PL, Hung CH (2012) Immunomodulatory effects of environmental endocrine disrupting chemicals. **KAOHSIUNG JOURNAL MEDICAL SCIENCE**. 28: S37-42.
63. Huang LT, Tain YL, Lai MC, **Yang, SN** (2012) Neonatal seizures: Dialogues between clinic and bench. **JOURNAL OF FORMOSA MEDICINE ASSOCIATION** 111: 239-244.
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67. Tsai MK, Jan RL, Lin CH, Kuo CH, **Yang, SN**, Chen HN, Huang MY, Hung CH (2011) Suppressive effects of imidapril on TH1- and TH2-related chemokines in monocytes. **JOURNAL OF INVESTING MEDICINE**, 59: 1141-1146.
68. Yeh CH, Kuo CH, **Yang, SN**, Huang MY, Wu HC, Wang HP, Kuo TH, Hung CH (2011) Prostaglandin I₂ analogs suppress tumor necrosis factor α production and the maturation of human monocyte-derived dendritic cells. **JOURNAL OF INVESTING MEDICINE**, 59: 1109-1115.
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71. Lai MC and ***Yang, SN** (2011) Perinatal hypoxic ischemic encephalopathy. **BIOMED RESEARCH INTERNATIONAL**. 2011: 609813-609818.
72. Wang JY, Chen WF, Hung CH, Jong YJ, ***Yang, SN** (2011) Differential expression of GABA_A receptor subunits in hippocampal CA1 area of rat offspring from morphine-addicted mothers. **NEUROSCIENCE LETTERS**. 489:5-9.
73. Kuo CH, Ko YC, **Yang, SN**, Chu YT, Wang WL, Huang SK, Chen HN, Wei WJ, Jong YJ, Hung CH (2011) Effects of PGI₂ analogues on Th1- and Th2-related chemokines in monocytes via epigenetic regulation. **JOURNAL OF MOLECULAR MEDICINE** 89:29-41.
74. Chen TH, Chang JG, Yang YH, Mai, HH, Liang WC, Wu YC, Wang HY, Huang YB, Wu, SM, **Yang, SN**, Jong YJ (2010) A randomized, double-blind, placebo-controlled trial of hydroxyurea in spinal muscular atrophy. **NEUROLOGY** 75: 2190-2197.
75. Hsu SH, Lai MC, Er TK, **Yang, SN**, Hung CH, Tsai HH, Lin YC, Chang JG, Lo YC, Jong YJ. (2010) Ubiquitin carboxyl-terminal hydrolase L1 (UCHL1) regulates the level of SMN expression through

- ubiquitination in primary spinal muscular atrophy fibroblasts. **CLINICAL CHEMISTRY ACTA** 411: 1920-1928.
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