

Scholarly Activity: July 1, 2015 to June 30, 2016

Published Manuscripts:

1. Bao-Chun Jiang, Tian Yang, Li-Na He, Yuan-Xiang Tao, Yong-Jing Gao. Altered T-UCRs expression profile in the spinal cord of mice with neuropathic pain. *Transl Perioper & Pain Med* 1(3):1-10, 2016 .
2. Yevgen Yudin, Brianna Lutz, Yuan-Xiang Tao, Tibor Rohacs. Phospholipase C $\delta 4$ regulates cold sensitivity in mice. *J Physiology* 1-20, 2016.
3. Shaogen Wu, Brianna Lutz, Xuerong Miao, Lingli Liang, Kai Mo, Yuan-Juan Chang, Peicheng Du, Patricia Soteropoulos, Bin Tian, Andrew G Kaufman, Alex Bekker, Yali Hu, Yuan-Xiang Tao. Dorsal root ganglion transcriptome analysis following peripheral nerve injury in mice. *Mol Pain* 12:1-14, 2016.
4. Jing Cao, Po-Kai Wang, Vinod Tiwari, Lingli Liang, Brianna Marie Lutz, Kun-Ruey Shieh, Wei-Dong Zang, Alex Bekker, Xiao-Qun Gao, Yuan-Xiang Tao. Short-term perioperative stress does not alter basal pain perception but does exacerbate postsurgical pain. *Mol Pain* 11:73, 2015.
5. Brianna Marie Lutz, Sam Nia, Ming Xiong, Yuan-Xiang Tao, Alex Bekker. mTOR, a new potential target for chronic pain and opioid-induced tolerance and hyperalgesia. *Mol Pain* 11: 32, 2015.
6. Po-Kai Wang, Jing Cao, Hongzhen Wang, Lingli Liang, Jun Zhang, Brianna Marie Lutz, Kun-Ruey Shieh, Alex Bekker, Yuan-Xiang Tao. Short-term sleep disturbance-induced stress does not affect basal pain perception, but does delay postsurgical pain recovery. *J Pain* 16(11): 1186-99, 2015.
7. Ji-Tian Xu, Linlin Sun, Brianna Marie Lutz, Alex Bekker, Yuan-Xiang Tao. Blocking spinal cord mTOR1 attenuates morphine-induced analgesic tolerance and hyperalgesia in rats with neuropathic pain. *Transl Perioper & Pain Med* 1(2):27-34, 2015.
8. Brianna Marie Lutz, Steffen E. Meiler, Alex Bekker, Yuan-Xiang Tao. Current updates on sickle cell disease-associated chronic pain. *Transl Perioper & Pain Med* 1(2): 8-17, 2015.
9. Lingzhong Meng, Jian Li, Yi Li, Dajin Sun, Yuan-Xiang Tao, Renyu Liu, Jin Jun Luo. Ketamine-a multifaceted drug. *Transl Perioper & Pain Med* 1(2): 20-26, 2015.

10. Jean-Marc G Guedon, Shaogen Wu, Xuexing Zheng, Caroline C Churchill, Joseph C Glorioso, Ching-Hang Liu, Shue Liu, Lucy Vulchanova, Alex Bekker, Yuan-Xiang Tao, Paul R Kinchington, William F Goins, Carolyn A Fairbanks, Shuanglin Hao. Current gene therapy using viral vectors for chronic pain. *Mol Pain* 11:27, 2015.
11. Lingli Laing, Brianna Marie Lutz, Alex Bekker, Yuan-Xiang Tao. Epigenetic regulation of chronic pain. *Epigenetics* 7:235-245, 2015.
12. Zhisong Li, Xiyao Gu, Shaogen Wu, Linlin Sun, Lingli Liang, Jing Cao, Brianna Marie Lutz, Alex Bekker, Wei Zhang, Yuan-Xiang Tao. Dorsal root ganglion myeloid zinc finger protein 1 contributes to neuropathic pain after peripheral nerve trauma. *Pain* 156: 711-21, 2015.
13. Patel A, Clark SR, Schiffmiller M, Schoenberg C, Tewfik G. A survey of practice patterns in the use of laryngeal mask by pediatric anesthesiologists. *Pediatric Anesthesia*; 25 (11) Nov.2015 1127-31
14. Shulman S, Naum Y, Discepola P, Lando S. Forearm Loss Caused by Automated Non-Invasive Blood Pressure Cuff Malfunction: A Hearsay Report. *OJ Anes*; Vol5 (11) 2015
<http://www.scirp.org/journal/ojanes>
15. Diep J, Kam D, Kuenzler K. Emergent airway management of an uncooperative child with a large retroperitoneal and posterior mediastinal abscess. *Anes and Analg: Case reports*. 6(3):61-64
16. Whitwell T, Li D, Le V, Gonzalez-Fiol A. Successful Neuroaxial Analgesia after Recent Epidural Blood Patch. *Anes and Analg: Case Reports*. Aug 16, 2015 Vol.5 (4) 51-53.
17. Zaslavsky A, Bekker A. The Opioid Sparing Effect of Intraoperative Infusion after Craniotomy. *Society for Neurosurgery in Anesthesia And Critical Care*. Sept.2015
18. Pinto BP, Atlas GM, Grts BF, Bendyelid K. The use of the oesophageal Doppler in perioperative medicine new directions in research and clinical practice. *BJA*
20. Le V; Kurnutala L; SchianodiCola J; Ahmed K; Yarmush J; Eloy JD; Shapiro M; Haile M; Bekker A. Premedication with Intravenous Ibuprofen Improves Recovery Characteristics and Stress Response in Adults Undergoing Laparoscopic Cholecystectomy: A Randomized Controlled Trial. *Pain Medicine* 2016;doi: 10.1093/pm/pnv113
21. Atlas G; Mosaad M; Chaudhry F; Gubenko Y. Obtaining external jugular venous access in the prone positioned patient. *Journal of Anesthesiology and Clinical Pharmacology*

22. Fu R, Gregor D, Peng Z, Li J, Bekker A, **Ye J-H***. Chronic intermittent voluntary alcohol drinking induces hyperalgesia in Sprague-Dawley rats. *International Journal of Physiology, Pathophysiology and Pharmacology* IJPPP0013987. 2015, 7(3):136-144.
23. Fu R, Zuo W, Gregor D, Li J, Grech D, Ye JH. Pharmacological Manipulation of the Rostromedial Tegmental Nucleus Changes Voluntary and Operant Ethanol Self-Administration in Rats. *Alcohol Clin Exp Res*. 2016 Feb 15. doi: 10.1111/acer.12974. PubMed PMID: 26876382.
24. Guan YZ, Ye JH. Glycine blocks long-term potentiation of GABAergic synapses in the ventral tegmental area. *Neuroscience*. 2016 Mar 24;318:134-42. doi: 10.1016/j.neuroscience.2016.01.017. PubMed PMID: 26806277; PubMed Central PMCID: PMC4753108.
25. Zuo W, Zhang Y, Xie G, Gregor D, Bekker A, Ye JH. Serotonin stimulates lateral habenula via activation of the post-synaptic serotonin 2/3 receptors and transient receptor potential channels. *Neuropharmacology*. 2016 Feb;101:449-59. doi: 10.1016/j.neuropharm.2015.10.012. PubMed PMID: 26471419; PubMed Central PMCID: PMC4681642.
26. Zuo W, Fu R, Hopf FW, Xie G, Krnjević K, Li J, Ye JH. Ethanol drives aversive conditioning through dopamine 1 receptor and glutamate receptor-mediated activation of lateral habenula neurons. *Addict Biol*. 2015 Aug 18. doi: 10.1111/adb.12298. PubMed PMID: 26283508; PubMed Central PMCID: PMC4758919.
27. Li J, Xiong M, Nadavaluru PR, Zuo W, Ye JH, Eloy JD, Bekker A. Dexmedetomidine Attenuates Neurotoxicity Induced by Prenatal Propofol Exposure. *J Neurosurg Anesthesiol*. 2016 Jan;28(1):51-64. PubMed PMID: 25844953.
28. Rao Fu, Xing Chen, Wanhong Zuo, Jing Li, Seungwoo Kang, Li-Hua Zhou, Allan Siegel, Alex Bekker, Jiang-Hong Ye* Ablation of μ opioid receptor-expressing GABA neurons in rostromedial tegmental nucleus increases ethanol consumption and regulates ethanol-related behaviors. *Neuropharmacology*. doi:10.1016/j.neuropharm. 2016.02.027
29. Li J, Zuo W, Fu R, Xie G, Kaur A, Bekker A, Ye JH. High Frequency Electrical Stimulation of Lateral Habenula Reduces Voluntary Ethanol Consumption in Rats. *Int J Neuropsychopharmacol*. 2016 May 27. pii: pyw050. doi: 10.1093/ijnp/pyw050. PubMed PMID: 27234303.
30. Xie G, Zuo W, Wu L, Li W, Wu W, Bekker A, Ye JH. Serotonin modulates glutamatergic transmission to neurons in the lateral habenula. *Sci Rep*. 2016 Apr 1;6:23798. doi: 10.1038/srep23798. PubMed PMID: 27033153; PubMed Central PMCID: PMC4817146.

31. Grech D; Zhifeng L; Morcelli P; Kalyoussef E; Kim D; Bekker A; Ulloa L. Intraoperative low frequency electro-acupuncture under general anesthesia improves post-operative recovery in a randomized trial. *J. Acupuncture and Meridian Studies*.
32. Gonzalez-Fiol A. et al. Catheter failure rates and time course with epidural versus combined spinal epidural analgesia in labor. *J of Obstetric Anesthesia* 2016 (26)4-7.
<http://dx.doi.org/10.1016/j.10a.2016.01004>
33. Gonzalez-Fiol A; Horvath R; Schoenberg C; Ahmed N; Dhar SK; Le V. Comparison of changes in tensile strength in three different flexible catheters under various conditions. *A&A* 123 (1) 233-37. July 2016. doi:10.1213ANE.0000000000001305
34. Ulloa L, Grech D, Bekker A - Translating neuromodulation into molecular medicine. *Shock* 2016
35. Ulloa L, Grech D, Li Z, Morcillo P, Torres-Rosas. Translating neuromodulation into molecular medicine *International Journal of Molecular Medicine* 36, S41-S41, SPANDIDOS PUBL LTD, 1/2015.
36. Diep J, Kam D, Munir F, Shulman S, Atlas G. Otocephaly complex: case report, literature review, and ethical considerations. (in press *Anesthesia and Analgesia*)
37. Amin M, Chaudhry F, Sifonios A, Gonzalez-Fiol A. Perioperative assessment of critical aortic stenosis prior to non-cardiac surgical procedures. *Euro J. of Anesthes.* (Supplement to be published)
38. Gonzalez Fiol A, Whitwell T. Management of a parturient with a post-dural puncture headache before the onset of labor. *Int J, Obstet Anesth* 2016, in press
(doi:10.1016/j.ijoa.2016.05.001)
39. Xiong Ming, Zhang L, Li J, Eloy JD, Ye JH, Bekker A. Propofol-Induced Neurotoxicity in the Fetal Animal Brain and Developments in Modifying These Effects-An Updated Review of Propofol Fetal Exposure in Laboratory Animal Studies. *Brain Sci.* 2016 Mar 28;6(2). pii: E11. doi: 10.3390/brainsci6020011. Review. PMID: 27043637

Abstracts
Society for Neuroscience
Chicago, IL

Brianna Marie Lutz, Yuan-Xiang, Tao. Endothelin-type A receptors are necessary for pain hypersensitivity in a mouse model of Sickle Cell Disease. The 45th Annual Meeting Society for Neuroscience, Oct 17-21, 2015, Chicago, IL, USA.

Shaogen Wu, Brianna Marie Lutz, Lingli Liang, Kai Mo, Yun-Juan Chang, Peicheng Du, Alex Bekker, Yuan-Xiang Tao. Dorsal root ganglion transcriptome analysis following peripheral nerve injury in mice. The 45th Annual Meeting Society for Neuroscience, Oct 17-21, 2015, Chicago, IL, USA.

Jing Cao Po-Kai Wang, Vinod Tiwari, Lingli Liang, Brianna Marie Lutz, Kun-Ruey Shieh, Weidong Zang, Alex Bekker, Xiao-Qun Gao, Yuan-Xiang Tao. Short-term perioperative stress does not alter basal pain perception, but does exacerbate postsurgical pain. The 45th Annual Meeting Society for Neuroscience, Oct 17-21, 2015, Chicago, IL, USA.

Po-Kai Wang, Jing Cao, Lingli Liang, Jun Zhang, Brianna Marie Lutz, Andrew Kaufman, Alex Bekker, Yuan-Xiang Tao. Short-term sleep disturbance-induced stress does not affect basal pain perception, but does delay postsurgical pain recovery. The 45th Annual Meeting Society for Neuroscience, Oct 17-21, 2015, Chicago, IL, USA.

S. KANG, J.-H. YE; Increased excitability of lateral habenula neurons via down regulation of m-type potassium channel in rats withdrawn from repeated ethanol exposure. Neuroscience meeting 2015, Chicago

W. Zuo, J. YE, Chronic ethanol enhances corticotrophin-releasing factor-dependent potentiation of glutamatergic transmission in lateral habenula neurons. Neuroscience meeting 2015, Chicago

Rao Fu, Wanhong, Zuo, Danielle Gregor, Seungwoo Kang, Jing Li, Jiang-Hong, Ye. Pharmacological Manipulation of Rostromedial Tegmental Nucleus Changes Voluntary and Operant Ethanol Self-administration in Rats.

Wanhong Zuo, Rao Fu, Danielle Gregor, Jiang-Hong, Ye. Action of acute and chronic ethanol on GABA signaling in lateral habenular neurons

**Research Society of Alcoholism
San Antonio, Texas**

D. Gregor, W. Zuo, R. Fu, J. Li, J.H. Ye. Trpv1 receptors in the lateral habenula mediate hyperalgesia induced by alcohol withdrawal. RoSA, New Orleans, June 2016.

J. Li, S. Kang, J.-H. Ye. Blockade of AMPA receptors in the lateral habenula attenuates alcohol drinking and depressive-like behaviors in rats consuming high amount of alcohol. RoSA, New Orleans, June 2016.

Li W, Wu W, Zuo W, Fu R, Xie Z, Li G, Ye JH: Extrasynaptic glycine receptors of rat lateral habenula neurons: a therapeutic target for ethanol-intake and withdrawal-induced pain. International alcohol research meeting, Sept. 2016

Abstracts

American Society of Anesthesiologists

San Diego, CA
2015

Kai Mo, Shaogen Wu, Wei-Feng Tu, Shi-Yuan Xu, Alex Bekker, Yuan-Xiang Tao. Expression of mu opioid receptor and Kv1.2 controlled by MBD1 in the dorsal root ganglion. The 2015 ASA Annual Meeting, Oct. 24–28, 2015, San Diego, CA, USA.

Wei-Feng Tu, Kai Mo, Alex Bekker, Yuan-Xiang Tao. MBD1 is required for the genesis of acute pain and chronic pain. The 2015 ASA Annual Meeting, Oct. 24–28, 2015, San Diego, CA, USA.

Po-Kai Wang, Jing Cao, Lingli Liang, Jun Zhang, Brianna Marie Lutz, Andrew Kaufman, Alex Bekker, Yuan-Xiang Tao. Short-term sleep disturbance-induced stress does not affect basal pain perception, but does delay postsurgical pain recovery. The 2015 ASA Annual Meeting, Oct. 24–28, 2015, San Diego, CA, USA.

Xue-Rong Miao, Andrew Kaufman, Alex Bekker, Yuan-Xiang Tao. DNMT3a contributes to development and maintenance of bone cancer-induced pain through silencing Kv1.2 expression in spinal cord. The 2015 ASA Annual Meeting, Oct. 24–28, 2015, San Diego, CA, USA.

Rao Fu, Wanhong, Zuo, Danielle Gregor, Seungwoo Kang, Jing Li, Jiang-Hong, Ye. Pharmacological Manipulation of Rostromedial Tegmental Nucleus Changes Voluntary and Operant Ethanol Self-administration in Rats.

Wanhong Zuo, Rao Fu, Danielle Gregor, Jiang-Hong, Ye. Action of acute and chronic ethanol on GABA signaling in lateral habenular neurons

Shanker R, Gajewski M. Pectoral Nerve Blockade for Anesthetic Management of a Morbidly Obese Patient Undergoing Mastectomy

Iannaccone F, Sifonios A. Continuous Infravclavicular Nerve block Catheter & Ketamine Infusion for CRPS of LUE

Shanker R, Gonzalez-Fiol A. The Anesthesiologist Approach to Headache in the Obstetrical Patient After Epidural/Spinal Analgesia-an Updated Algorithm

Malhorta A, Chinn LW. Electroconvulsive Therapy and the Development of Takotsubo Cardiomyopathy in a Young Healthy Female

Korban A, Pandya-Shah S. Anesthetic & airway management of a child with Golderhar Syndrome for Emergent Tarsorrhaphy

Chen D, Chaudhry F. Dexmetomidine Sedation for Corneal Transplant in Patient with End Stage Cardiac Disease and Liver Failure

Scholl R, Grech D, Schoenberg C. Intraoperative Electroacupuncture's Modulation of Inflammation & Surgical Stress Response During Thyroid Surgeries

Shanker R, Gajewski M. Utility of TEE in the PACU: Diagnosing a Post-Operative Pulmonary Embolism

Baffo A, Tao B, Lang L. Expression of mu opioid receptor and Kv1.2 controlled by MBD1 in the dorsal root ganglion (*oral presentation*)

Malhorta A, Pandya Shah S. An infant without a diagnosis: Dandy Walker, Hepatic Calcification & Seizure

Asokan D, Sifonios A. Unintentional Catheterization of the intrathecal space: A case of difficult detection and injection of a high volume, low concentration local anesthetic bolus

Scholl R, Pandya Shah S. Anesthetic Concerns of a Child with Denys-Dash Syndrome Status Post Renal Transplant

Miao X, Tao Y. DNMT3a contributes to development and maintenance of bone cancer induced pain through silencing Kv1.2 expression in spinal cord

Choi P, Gubenko Y. Anesthetic Management for On Pump Aortic Valve Replacement Complicated by Subsequent Right Heart Failure

Chen D, Botea A. Emergent Intubation in Patient with Tracheal Stent and End Stage Liver Disease

Shankar R, Xiong M. Dexmetomidine Mitigates Neuroapoptosis Induced by Prenatal IV Anesthetic Exposure in Rats (*oral presentation*)

Whitwell T, Malhorta A, Grech D: Intraoperative inline Breathing Treatment for an Anesthesised Pediatric Patient

Richards K, Pandya-Shah S. Anesthetic Management in Surgical Revascularization of Pediatric Moyamoya Disease

Asokan D, Sifonios A. A case of sternocleidomastoid pain appearing as trigeminal neuralgia resolved with a trigger point injection

Asokan D, Sifonios A. A difficult case of medial nerve radiofrequency ablation due to spinal cord stimulator placement

Amin M, Quraishi F, Aziz R. Anesthetic Considerations in a 15 month old Child with Patau Syndrome

Iannaccone F, Tao Y. Short-term sleep disturbance-induced stress does not affect basal pain perception, but does delay postsurgical pain recovery

Diep J, Kam D, Atlas G. Otocephaly: case report, literature review and ethical considerations.

American Society of Regional Anesthesia
Miami, FLA

Abstracts

Diep J, Perales A, Sifonios A. Botulinum Toxin Type A injection for management of intractable trigeminal neuralgia:A case series

Iannaccone F, Malave K, Kaufman A. A retrospective review of genicular nerve radiofrequency ablation in chronic knee osteoarthritis.

Scholl R, Kaufman A. Radiofrequency Genicular Nerve Ablation For Knee Pain Status Post Internal Fixation.

New York State Society of Anesthesiologists
Post Graduate Assembly
New York, New York

Abstracts

Korban A, Shulman S. Forearm Loss Caused by Automated Non-Invasive Blood Pressure Cuff Malfunction: A Hearsay Report

Diep J, Kam D, Atlas G. Otocephaly: case report, literature review and ethical considerations.

Scholl R, Nia S, Richards K, Whitwell T. Plan Do Study Act: Use of Rapid Cycle Improvement Strategies to Enhance Patient Care and Residency Experience.

Global Health Fair
Abstracts (Rutgers University New Brunswick, NJ)
December, 2015

Scholl R, Gajewski M. Facing Drug Shortages: Multimodal Anesthesia Surgical Mission in Mampong, Ghana

American Society of Regional Anesthesia
New Orleans, Louisiana
Abstracts

Shankar R, Sifonios A., Supraorbital Nerve Block with Liposomal Bupivacaine for Severe, Refractory, Post Herpetic Neuralgia

Kaushal A, Shankar R, Eloy JD, Sifonios A. Safe Neuraxial Anesthesia In A Patient With Neurofibromatosis Type I

Diep J, Dandu K, Gonzalez-Fiol A. Successful Neuraxial Anesthesia for Cesarean Delivery in Patient with Severe Oral and Neck Arteriovenous Malformation

New Jersey State Society of Anesthesiologists
New Brunswick, New Jersey
Abstracts

Amin M, Quraishi F, Aziz R. Anesthetic Considerations in a 15 month old with Patau's Syndrome.

Amin M, Richards K, Pandya-Shah S. Anesthetic management in the surgical revascularization in pediatric moyamoya disease

Diep J, Kam D, Atlas G. Otocephaly: case report, literature review and ethical considerations

Shulman SM, Gomulski M, Shah R, Estrada C, Xia T Boules HM. Quintile vs. Decile analysis of BIS measurements during TIVA; How much information do we need?

International Anesthesia Research Society
San Francisco, CA.

Amin M; Pandya-Shah S. Challenging intubation secondary to subglottic stenosis in a child with hemophilia A.

Diep J, Dandu K, Gonzalez-Fiol A. Successful Neuraxial Anesthesia for Cesarean Delivery in Patient with Severe Oral and Neck Arteriovenous Malformations

Society of Education in Anesthesiology
Baltimore, MD

Amir Abdel-Kader¹ BS , Lawrence Chinn MD², and Glen Atlas² MD MSc, Assessing Calculation Proficiency of Anesthesiology Residents and Medical Students

Society of Obstetrical Anesthesia and Perinatology
Boston, MA

Diep J, Dandu K, Gonzalez-Fiol A. Successful Neuraxial Anesthesia for Cesarean Delivery in Patient with Severe Oral and Neck Arteriovenous Malformations.

European Society of Anesthesiologists
London, England

Amin M, Chaudhry F, Sifonios A, Gonzalez-Fiol A. Perioperative assessment of critical aortic stenosis prior to non-cardiac surgical procedures.

Oral Presentations

Diep J, Kam D, Atlas G. Otocephaly: case report, literature review and ethical considerations. NYSSA, PGA, December, 2015

Shridevi Pandya Shah. Anesthetic challenges when an elective case becomes emergent Pediatric Emergency Medicine Conference. Atlanta, Georgia. March, 2016

Antonio Gonzalez. Accidental Dural Puncture, Implication and Management International Congress of Gynecology and Obstetrics. Barcelona, Spain. May 28-30, 2016

Book Chapters

1. **Spinal Cord Stimulation: Principles & Practices.** Nova Science Publisher. Ed: 2016
Chapters: *Indication and Patient Selection*

Andrew G. Kaufman and Rita Shankar Shah

Failed Back Surgery Syndrome and Spinal Cord Stimulation

Ferdinand Iannaccone and Vanny Le

Complex Regional Pain and Spinal Cord Stimulation

Anant Parikh, Deepa Asokan and Anthony Sifonios

2. **Dueling Authors Re-examine Classic Teaching in Anesthesia. Springer Publishing. In Press 2016**

Chapters: *Pros and Cons of Complementary and Alternative medicine for the treatment of post operative pain following Same Day Surgery*

Grech D, Kam D, Patel P, Patel A, Bekker A

Pros and Cons of Free Standing Ambulatory Surgery Center (ASC) vs. Hospital Based Operating Room

Grech D, Patel P, Patel A, Bekker A

Monetary Awards

1. **Dr. Grech has been awarded the 2016 Heu-Jun Award (\$20,000) From the Acupuncture and Meridian Society**
2. **Dr. Gonzalez-Fiol has been awarded a grant of \$ 21,800 for a educational study regarding the ISO-6**
3. **Dr. Gajewski has been awarded \$80,000 from Mallinckrodt for a clinical trial regarding IV acetaminophen and readiness for discharge.**