JINMAI JIANG

University of Florida· College of Pharmacy
2033 Mowry Road, Gainesville FL 32610
352-273-9119 · jjiang@ufl.eud

EDUCATION

Ph.D., Cell Biology, Peking University, Beijing, China, 2002
M.S., Medical Science, Beijing University of Chinese Medicine, Beijing, China, 1998
B.S., Medicine, Beijing University of Chinese Medicine, Beijing, China, 1993

PROFESSIONAL EXPERIENCE

The University of Florida, College of Pharmacy, Gainesville, FL
Research Assistant Professor, July 2015 – present,

Ohio State University, College of Pharmacy, Columbus, OH
Research Scientist, August 2012 – June 2015,
Senior Researcher, October 2010 – July 2012,
Postdoctoral Researcher, September 2003 - September 2010.

Peking University Health Science Center, Beijing, China
Research Assistant, December 2001-January 2003.

RESEARCH INTERESTS

- Early events in the development of human pancreatic cancer.
- Cancer progression and heterogeneity.
- Therapeutic Extracellular Vesicles for human diseases.
- Extracellular microRNA as the biomarkers and mediators for human diseases.

PEER-REVIEWED PUBLICATIONS

1. **Jiang J**, Hakimjavadi H, Bray JK, Perkins C, Gosling A, da Silva L, Bulut G, Ali J, Setiawan V, Campbell-Thompson M, Chamala S, Schmittgen TD. Transcriptional Profile of Human Pancreatic Acinar Ductal Metaplasia. Gastro Hep Advances. 2023 February; 2(4):532–543. doi: 10.1016/j.gastha.2023.02.003. PMID: 37425649; PMCID: PMC10328139. Selected as Editor's Essential Reading July 2023,
2. da Silva L, **Jiang J,** Perkins C, Atanasova KR, Bray JK, Bulut G, Azevedo-Pouly A, Campbell-Thompson M, Yang X, Hakimjavadi H, Chamala S, Ratnayake R, Gharaibeh RZ, Li C, Luesch H, Schmittgen TD. Pharmacological inhibition and reversal of pancreatic acinar ductal metaplasia. **Cell Death Discov**. 2022 Sep 2;8(1):378. doi: 10.1038/s41420-022-01165-4. PMID: 36055991; PMCID: PMC9440259.
3. Koopaei NN, Chowdhury EA, **Jiang J**, Noorani B, da Silva L, Bulut G, Hakimjavadi H, Chamala S, Bickel U, Schmittgen TD. Enrichment of the erythrocyte miR-451a in brain extracellular vesicles following impairment of the

blood-brain barrier. **Neurosci Lett.** 2021 Apr 23;751:135829. doi: 10.1016/j.neulet.2021.135829. Epub 2021 Mar 13. PubMed PMID: 33727125.

4. Wilkerson JL, **Jiang J**, Felix JS, Bray JK, da Silva L, Gharaibeh RZ, McMahon LR, Schmittgen TD. Alterations in mouse spinal cord and sciatic nerve microRNAs after the chronic constriction injury (CCI) model of neuropathic pain. **Neurosci Lett**. 2020 Jul 13;731:135029. doi: 10.1016/j.neulet.2020.135029. Epub 2020 May 5. PMID: 32380144; PMCID: PMC7339614.
5. Da Silva L, Bray JK, Bulut G, **Jiang J**, Schmittgen TD. Method for improved integrity of RNA isolated from Matrigel cultures. **MethodsX**. 2020;7:100966. doi: 10.1016/j.mex.2020.100966. eCollection 2020. PMID: 32637337; PMCID: PMC7327238.
6. Bray JK, Elgamal OA, **Jiang J,** Wright LS, Sutaria DS, Badawi M, Borcyk MG, Liu X, Fredenburg KM, Campbell-Thompson ML, Schmittgen TD. Loss of RE-1 silencing transcription factor accelerates exocrine damage from pancreatic injury. Cell Death Dis. 2020 Feb 20;11(2):138. doi: 10.1038/s41419-020-2269-7. PubMed PMID: 32080178; PubMed Central PMCID: PMC7033132.
7. Tomkovich S, Gharaibeh RZ, Dejea CM, Pope JL, **Jiang J**, Winglee K, Gauthier J, Newsome RC, Yang Y, Fodor AA, Schmittgen TD, Sears CL, Jobin C. Human Colon Mucosal Biofilms and Murine Host Communicate via Altered mRNA and microRNA Expression during Cancer. mSystems. 2020 Jan 14;5(1). doi: 10.1128/mSystems.00451-19. PubMed PMID: 31937674; PubMed Central PMCID: PMC6967385.
8. Sutaria DS, **Jiang J**, Azevedo-Pouly AC, Wright L, Bray JA, Fredenburg K, Liu X, Lu J, Torres C, Mancinelli G, Grippo PJ, Coppola V, Schmittgen TD. Knockout of Acinar Enriched microRNAs in Mice Promote Duct Formation But Not Pancreatic Cancer. Sci Rep. 2019 Jul 31;9(1):11147. doi: 10.1038/s41598-019-47566-x. PubMed PMID: 31367007; PubMed Central PMCID: PMC6668398.
9. Badawi M, Kim J, Dauki A, Sutaria D, Motiwala T, Reyes R, Wani N, Kolli S, **Jiang J**, Coss CC, Jacob ST, Phelps MA, Schmittgen TD. CD44 positive and sorafenib insensitive hepatocellular carcinomas respond to the ATP-competitive mTOR inhibitor INK128. Oncotarget. 2018 May 25;9(40):26032-26045. doi: 10.18632/oncotarget.25430. eCollection 2018 May 25. PubMed PMID: 29899840; PubMed Central PMCID: PMC5995255.
10. Pandharkar T, Zhu X, Mathur R, **Jiang J**, Schmittgen TD, Shaha C, Werbovetz KA. Correction for Pandharkar et al., "Studies on the Antileishmanial Mechanism of Action of the Arylimidamide DB766: Azole Interactions and Role of CYP5122A1". Antimicrob Agents Chemother. 2018 Jan;62(1). doi: 10.1128/AAC.01124-17. Print 2018 Jan. PubMed PMID: 29269427; PubMed Central PMCID: PMC5740369.
11. Sutaria DS, **Jiang J**, Azevedo-Pouly ACP, Lee EJ, Lerner MR, Brackett DJ, Vandesompele J, Mestdagh P, Schmittgen TD. Expression Profiling Identifies the Noncoding Processed Transcript of HNRNPU with Proliferative Properties in Pancreatic Ductal Adenocarcinoma. Noncoding RNA. 2017 Aug 25;3(3). doi: 10.3390/ncrna3030024. PubMed PMID: 29657295; PubMed Central PMCID: PMC5831917.
12. Sutaria DS, **Jiang J**, Elgamal OA, Pomeroy SM, Badawi M, Zhu X, Pavlovicz R, Azevedo-Pouly ACP, Chalmers J, Li C, Phelps MA, Schmittgen TD. Low active loading of cargo into engineered extracellular vesicles results in inefficient miRNA mimic delivery. J Extracell Vesicles. 2017;6(1):1333882. doi: 10.1080/20013078.2017.1333882. eCollection 2017. PubMed PMID: 28717424; PubMed Central PMCID: PMC5505005.
13. Zhu X, Badawi M, Pomeroy S, Sutaria DS, Xie Z, Baek A, **Jiang J**, Elgamal OA, Mo X, Perle K, Chalmers J, Schmittgen TD, Phelps MA. Comprehensive toxicity and immunogenicity studies reveal minimal effects in mice following sustained dosing of extracellular vesicles derived from HEK293T cells. J Extracell

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16. Kim JH, Badawi M, Park JK, **Jiang J**, Mo X, Roberts LR, Schmittgen TD. Anti-invasion and anti-migration effects of miR-199a-3p in hepatocellular carcinoma are due in part to targeting CD151. Int J Oncol. 2016 Nov;49(5):2037-2045. doi: 10.3892/ijo.2016.3677. Epub 2016 Sep 2. PubMed PMID: 27599545.
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20. Elgamal OA, Park JK, Gusev Y, Azevedo-Pouly AC, **Jiang J**, Roopra A, Schmittgen TD. Tumor suppressive function of mir-205 in breast cancer is linked to HMGB3 regulation. PLoS One. 2013;8(10):e76402. doi: 10.1371/journal.pone.0076402. eCollection 2013. PubMed PMID: 24098490; PubMed Central PMCID: PMC3788717.
21. McNally ME, Collins A, Wojcik SE, Liu J, Henry JC, **Jiang J**, Schmittgen T, Bloomston M. Concomitant dysregulation of microRNAs miR-151-3p and miR-126 correlates with improved survival in resected cholangiocarcinoma. HPB (Oxford). 2013 Apr;15(4):260-4. doi: 10.1111/j.1477-2574.2012.00523.x. Epub 2012 Jul 4. PubMed PMID: 23458262; PubMed Central PMCID: PMC3608979.
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35. Martin MM, Buckenberger JA, **Jiang J,** Malana GE, Nuovo GJ, Chotani M, Feldman DS, Schmittgen TD, Elton TS. The human angiotensin II type 1 receptor +1166 A/C polymorphism attenuates microRNA-155 binding. J Biol Chem. 2007 Aug 17;282(33):24262-9. doi: 10.1074/jbc.M701050200. Epub 2007 Jun 22. PubMed PMID: 17588946; PubMed Central PMCID: PMC2413065.
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39. **Jiang J**, Lee EJ, Gusev Y, Schmittgen TD. Real-time expression profiling of microRNA precursors in human cancer cell lines. Nucleic Acids Res. 2005;33(17):5394-403. doi: 10.1093/nar/gki863. Print 2005. PubMed PMID: 16192569; PubMed Central PMCID: PMC1236977. . *Third most frequently downloaded article (Standard Category) on Nucleic Acids Res. website for 2005.*
40. Schmittgen TD, **Jiang J**, Liu Q, Yang L. A high-throughput method to monitor the expression of microRNA precursors. Nucleic Acids Res. 2004 Feb 25;32(4):e43. doi: 10.1093/nar/gnh040. PubMed PMID: 14985473; PubMed Central PMCID: PMC390315. *Top downloaded article (Methods Category) on Nucleic Acids Res. website for 2004.*

Complete List of Published Work in MyBibliography: **https://www.ncbi.nlm.nih.gov/myncbi/1-A1Noyle845k/bibliography/public/**

MOST RECENT ABSTRACTS

1. Chayil C. Lattimore, Heather Kates, Tongjun Gu, Jinmai Jiang, Thomas Schmittgen, Kristianna M. Fredenburg. Computational pathway analysis of differentially expressed miRNAs in Black compared with White laryngeal squamous cell carcinoma. (AACR cancer health disparities, 2022)
2. Corey Perkins, Jinmai Jiang, Julie K. Bray, Alyssa Gosling, Lais da Silva, Kalina Rosenova Atanasova, Ranjala Ratnayake, Hesamedin Hakimjavadi, Srikar Chamala, Martha-Campbell Thompson, Chenglong Li, Hendrik Luesch and Thomas D. Schmittgen. Human pancreatic organoids to study the early events in the development of pancreatic cancer: Applications to health disparities research. (UF's College of Pharmacy's 34th Annual Research Showcase; UF's College of Medicine's Health and Medicine Symposium; UF's Graduate Student Diversity Research Day, April 2021)
3. Alyssa Gosling, Jinmai Jiang, Corey M. Perkins, Yingwei Yao, Thomas D. Schmittgen. Development of an organoid assay for studying racial disparity in pancreatic acinar ductal metaplasia. Proceedings of the AACR Virtual Conference: Thirteenth AACR Conference on the Science of Cancer Health Disparities in Racial/Ethnic Minorities and the Medically Underserved; 2020 Oct 2-4. Philadelphia (PA): AACR; Cancer Epidemiol Biomarkers Prev 2020;29 (12 Suppl):PO-092.

4. Nasser Nassiri Koopaei, Ekram-Ahmed Chowdhury, Lais da Silva, Jinmai Jiang, Behnam Noorani , Ulrich Bickel, Thomas D. Schmittgen. Enrichment of miR-451a in CNS extracellular vesicles following impairment of the blood brain barrier. (ISEV 2020)
5. Mohamed Badawi, Jinmai Jiang, Steve Pomeroy, Xiaohua Zhu, Dhruvitkumar Sutaria, Thomas D. Schmittgen, Mitch Phelps. Pharmacokinetic evaluation and bisdistribution of anti-miR-221 loaded EVs in a hepatocellular carcinoma orthotopic mouse model. (AAPS, 2018)
6. Sarah Tomkovich, Raad Z. Gharaibeh, Christine M. Dejea, Jillian L. Pope, Jinmai Jiang, Kathryn Winglee, Josee Gauthier, Rachel C. Newsome, Ye Yang, Marcus Mühlbauer, Anthony A. Fodor, Thomas D. Schmittgen, Cynthia L. Sears and Christian Jobin. Microbial Activities Associated with Human Colon Mucosal Biofilms Change mRNAs and microRNAs to Promote Carcinogenesis. (ASM Microbe 2018)
7. Mohamed Badawi, Jinmai Jiang, Steve Pomeroy, Xiaohua Zhu, Dhruvitkumar Sutaria, Thomas D. Schmittgen, Mitch A. Phelps. Pharmacokinetics and tumor distribution of cholesterol-anti-miR-221 loaded EVs in an orthotopic mouse model of hepatocellular carcinoma. (ERCC 2017)
8. D.Sutaria, J.Jiang, O.Elgamal, A.Azevedo-Pouly, R.Pavlovicz, C.Li, M.Phelps, T.Schmittgen. Development of therapeutic extracellular vesicles containing engineered microRNA precursor for cancer therapy. (AAPS NBC- Boston, MA- May 2016)
9. D.Sutaria, J.Jiang, O.Elgamal, A.Azevedo-Pouly, R.Pavlovicz, C.Li, M.Phelps, T.Schmittgen "Engineering of hairpin loop enhances the loading of endogenously expressed pre-miRNA into extracellular vesicles" (AACR- New Orleans, LO- Apr 2016)
10. Elgamal OA, Sutaria D, Jiang J, Azevedo-Pouly AC, Phelps MA, Schmittgen TD. Engineering of microRNA loaded targeted microvesicles for cancer therapy. NIH Extracellular RNA Communication Consortium, 5th Investigators' Meeting, Rockville, MD, November 9 – 10, 2015
11. Amaya P, Plencner E, Xue W, Zhu X, Elgamal OA, Jiang J, Sutaria D, Schmittgen TD, Phelps MA, Chalmers J. Microcarrier Culture Enhances Release of Therapeutic MiRNA in Extracellular Vesicles by HEK293T. BMES (Biomedical Engineering Society) annual meeting, Tampa, Florida, October 7-10, 2015
12. Elgamal OA, Azevedo-Pouly AC, Badawi M, Jiang J, Schmittgen TD. A novel transcription factor increases pancreatic duct formation during experimental acinar to ductal transdifferentiation. Gordon research conference: Pancreatic Diseases, Mount Holyoke College in South Hadley, MA, July. 19-24, 2015
13. D.Sutaria, J.Jiang, A.Azevedo-Pouly, X.Pu, V.Coppola, T.Schmittgen "Generation of microRNA knockout mouse models using CRISPR CAS systems for pancreas tumorigenesis study" (The Ohio State University, College of Pharmacy Research day- Apr 2015)

BOOK CHAPTERS and REVIEW ARTICLES

1. **Jiang, J**., Lee, E.J., Piper-Hunter, M., Marsh, C.B., and Schmittgen, T.D. High throughput profiling of mature microRNA by real-time PCR. In: RNA interference methods. Neuromethods, Vol. 58, S. Harper, Editor. Humana/Springer. 2011, In press.
2. Schmittgen, T.D., Lee, E.J., **Jiang, J**., Yang, L., Elton, T.S. and Chen, C. Real-time PCR quantification of precursor and mature microRNA. Methods, 44:31-38 (2008).
3. Schmittgen, T.D., Lee, E.J., and **Jiang, J**. High-throughput real-time PCR. In: Molecular Beacons (Signaling Nucleic Acid Probes, Methods, and Protocols). Methods in Molecular Biology 429. Page 89-99 (2008).

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Available upon request