

BIOGRAPHICAL SKETCH

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|---|---------------------------|---------------------|---|
| NAME Ji, Baoan | | POSITION TITLE | |
| eRA COMMONS USER NAME (credential, e.g., agency login) baoanji | | Assistant Professor | |
| EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.) | | | |
| INSTITUTION AND LOCATION | DEGREE (if applicable) | MM/YY | FIELD OF STUDY |
| Binzhou Medical College, Binzhou, Shandong Province, P. R. China | M.D. | 09/1988- 07/1993 | Medicine |
| Department of Internal Medicine, First Hospital, Beijing Medical University, Beijing, P.R. China | Ph.D. | 09/1993- 07/1998 | Internal Medicine --Gastroenterology |
| Department of Physiology, University of Michigan, Ann Arbor, MI | Post-doc | 09/1998- 05/2002 | Pancreatology |

A. Personal Statement

My extensive research for more than a decade in the areas of pancreatic biology, pancreatitis, and pancreatic cancer has given me the expertise needed to successfully complete the proposed studies. I have extensive experience in using molecular approaches to investigate the cellular mechanisms found in pancreatic diseases including pancreatic cancer. During the past several years, I have developed several mouse models, described in the publications *Genesis*, *Gastroenterology*, *Gut* and *Journal of Clinical Investigation*.

B. Positions and Honors

Positions and Employment

- 12/2012-present Associate Consultant, Department of Biochemistry and Molecular Biology, Mayo Clinic, Rochester, MN
- 1/2005-12/2011 Research Assistant Professor, Department of Cancer Biology, Univ. of Texas MD Anderson Cancer Center, Houston, TX
- 9/2004-1/2005 Research Assistant Professor, Department of Molecular and Integrative Physiology, Univ. of Michigan, Ann Arbor, MI
- 5/2002--8/2004 Research Investigator (Instructor level), Department of Molecular and Integrative Physiology, Univ. of Michigan, Ann Arbor, MI

Other Experience and Professional Memberships

- American Physiological Society
American Pancreatic Association
American Gastroenterological Association
American Association for Cancer Research
Mayo Center for Cell Signaling in Gastroenterology (C-SiG)
Mayo Cancer Center (GI Cancer Program)

Honors

- Travel Award (2006)--American Pancreatic Association
Best Abstract Award (2005) -- National Pancreas Foundation and American Pancreatic Association
Travel Award (2001)--American Pancreatic Association
Guanghua Scholarship (1995) – Beijing Medical University
Excellence Scholarship (1988-1992) – Binzhou Medical College

C. Selected Peer-reviewed Publications:

1. **Ji B**, Yan Bi, Simeone D, Mortenson R, Logsdon C. Human pancreatic acinar cells lack functional responses to Cholecystokinin and Gastrin. *Gastroenterology* 121(6):1380-90, 1/2001. PMID: P M C 1 1 7 2 9 1 1 7 .
2. **Simeone DM, Ji B**, Banerjee M, Arumugam T, Li D, Anderson MA, Bamberger AM, Greenson J, Brand RE, Ramachandran V, Logsdon CD. CEACAM1, a novel serum biomarker for pancreatic cancer. *Pancreas* 34(4):436-43, 1/2007. **(Co-first authorship)**.
3. **Ji B**, Song J, Tsou L, Bi Y, Gaiser S, Mortensen R, Logsdon C. Robust acinar cell transgene expression of CreErT via BAC recombineering. *Genesis* 46(8):390-395, 8/2008.
4. **Ji B**, Gaiser S, Chen X, Erst SA, Logsdon CD. Intracellular trypsin induces pancreatic acinar cell death but not NF-kappaB activation. *J. Biol. Chem.* 284(26):17488-98, 6/2009. PMID: PMC2719389.
5. **Ji B**, Tsou L, Wang H, Gaiser S, Chang DZ, Daniluk J, Bi Y, Grote T, Longnecker DS, Logsdon CD. Ras Activity Levels Control the Development of Pancreatic Diseases. *Gastroenterology* 137(3):1072-1082, 9/2009.
6. Sabbatini ME, Bi Y, **Ji B**, Ernst SA, Williams JA. CCK activates RhoA and Rac1 differentially through G{alpha}13 and G{alpha}q in mouse pancreatic acini. *Am J Physiol Cell Physiol.* 298: C592-C601, 2010
7. Gurda GT, Crozier SJ, **Ji B**, Ernst SA, Logsdon CD, Rothermel BA, Williams JA. Regulator of calcineurin 1 (Rcan1) controls growth plasticity of adult pancreas. *Gastroenterology.* 2010 Aug;139(2):609-19
8. Won JH, Zhang Y, **Ji B**, Logsdon CD and Yule DI. Phenotypic changes in mouse pancreatic stellate cell Ca²⁺ signaling events following activation in culture and in a disease model of pancreatitis. *Mol Biol Cell.* 2011 Feb;22(3):421-36.
9. Gaiser S, Daniluk J, Liu Y, Tsou L, Lee W, Longnecker DS, **Logsdon CD* and Ji B***. Intracellular activation of trypsinogen in transgenic mice induces acute but not chronic pancreatitis. *Gut.* 2011 Oct;60(10):1379-88. PMID: 21471572. **(*Corresponding authors)**
10. Daniluk J, Liu Y, Deng D, Chu J, Gaiser S, Wang H, **Ji B* & Logsdon CD***. An NF- κ B pathway-mediated positive feedback loop amplifies Ras activity to pathological levels in Mice. *J Clin Invest.* 2012 Apr 2;122(4):1519-28. PMID:22406536. **(*Corresponding Authors)**.
11. Chang DZ, Ma Y, **Ji B**, Liu Y, Hwu P, Abbruzzese JL, Logsdon C, Wang H. Increased CDC20 expression is associated with pancreatic ductal adenocarcinoma differentiation, progression. *J Hematol Oncol* PMID 22475564. 2012 Apr 4; 59(1):15.
12. Hwang RF, Moore TT, Mertens Hattersley M, Scarpitti M, Yang B, Devereaux E, Ramachandran V, Arumugam T, **Ji B**, Logsdon CD, Brown JL, Godin R. Inhibition of the hedgehog pathway targets the tumor-associated stroma in pancreatic cancer. *Mol Cancer Res.* 2012 Sep;10(9):1147-57..
13. Song S, **Ji B**, Ramachandran V, Wang H, Hafley M, Logsdon C, Bresalier RS. Overexpressed galectin-3 in pancreatic cancer induces cell proliferation and invasion by binding ras and activating ras signaling. *PLoS One* 2012 Epub. 2012 Aug 10; 7(8):e42699. PMID:22900040
14. Huang H, Liu Y, Daniluk J, Wang HM and Logsdon CD, Ji B. Elevated Acinar Cell NF- κ B Activity Increases Pancreatitis Severity. *Gastroenterology.* 2013 Jan;144(1):202-10. PMID:23041324
15. Huang H, Daniluk J, Liu Y, Chu J, Ji B* & Logsdon CD*. Oncogenic Ras require activation for enhanced activity. *Oncogene.* 2013 Jan 21. doi: 10.1038/onc.2012.619. [Epub ahead of print] **(*Corresponding Authors)**. PMID:23334325

D. Research Support:

Ongoing Research Support

1R21CA155165-1 (PI: Ji B)

9/15/2011-8/31/2013 3.6 calendar

NIH/NCI

\$239,250 total direct cost

Develop and Characterize a Novel Animal Model of Pancreatic Cancer,

This study focuses on oncogenic K-Ras and tumor suppressors in the development of pancreatic cancer specifically from pancreatic duct cells.

P50 CA102701 2012 \$100,000
Mayo Pancreatic Cancer SPORE: Career Development Award
Implications of Ras Activity levels in Pancreatic Chronic Inflammation and Tumorigenesis
This project is to elucidate Ras activity levels on the development of inflammation and cancer.

Mayo Cancer Center Eagles Fund Pilot Project 2012 \$40,000
Ras signaling Pathways in Pancreatic Tumorigenesis
We aim to dissect Ras downstream signaling pathways responsible for senescence and cancer.

Completed Research Support

P30 DK34933 Ji B. (PI) 9/1/2003-8/31/2005
Pilot Feasibility Project of Michigan Peptide Research Center (a NIH/NIDDK funded Center , \$30,000)
The Role of Trypsin in Acute Pancreatitis.
This proposal seeks to understand the biological effect of trypsinogen activation in the pancreas by construction and delivery of an active mutant of trypsinogen
Role: PI

R21 DK068414 Ji B (PI) 9/1/2007-2/28/2010
NIH/NIDDK \$275,000
The Role of Trypsin in Pancreatitis
This proposal studies the role of intracellular trypsinogen activation on the initiation of pancreatitis.
Role: PI

R01 DK41225 Logsdon CD (PI) 09/01/00-08/31/05
NIH/NIDDK \$735,000
Receptors for CCK and other GI Hormones
This proposal investigates the structure and function of receptors for gastrointestinal hormones important in the regulation of pancreatic function.
Role: Co-Investigator