

# Jianxiong Richard Bao, MD, PhD

## Executive Summary

- Fellowship trained cytopathologist
- **Six years of experience as associate medical director at Bostwick Laboratories with a primary focus on genitourinary, gynecological and gastrointestinal pathology including large volumes of prostate biopsies and urine cytologies**
- More than 10 years of general surgical pathology experience and served as pathology consultant for physician owned laboratories
- Prior to joining Bostwick Laboratories, received PhD degree at Tulane University and was an assistant professor of pathology at LSUHSC Shreveport
- Gave many presentations and authored many publications in the field. Also lecturer for several graduate and medical school courses and trained pathology residents and cytopathology fellows
- Completed intensive Ultrasound Fine Needle Aspiration Advanced Pathology Program through College of American Pathologists
- Professional affiliations include the United States and Canadian Academy of Pathology and College of American Pathologists

## Board Certifications

American Board of Pathology, Cytopathology, 2007

American Board of Pathology, Anatomic and Clinical Pathology, 2006

## Education and Training

- 07/04-06/05 **Fellow, Cytopathology**  
St. Louis University School of Medicine, St. Louis, MO
- 07/00-06/04 **Resident, Anatomic and Clinical Pathology**  
University of Kansas Medical Center, Kansas City, KS
- 07/87-12/94 **Ph.D.**  
Tulane University School of Medicine, New Orleans, LA
- 07/80-06/86 **M.D.**  
Shanghai Medical University, Shanghai, China

## Professional Experience

08/21-current **Pathologist.** QDx Pathology Services, Edison, NJ

- 04/20-08/21 **Medical Director and Pathologist**  
Thernostix Inc/P4 Diagnostix, Inc, Beltsville, MD
- 02/19-08/21 **Medical Director** for Gastroenterology Associates Inc (GAI) POL, Canton, OH  
Service Locations: P4 Diagnostix, Inc, Beltsville, MD
- 9/17-03/20 **Pathologist.** Metamark Genetics, Inc/P4 Diagnostix, Inc, Augusta, GA
- 10/15-04/20 **Medical Director** for Urology Specialists of North Carolina POL, Charlotte, NC  
Service Locations: Metamark Genetics, Augusta, GA
- 10/15-12/18 **Medical Director** for Northwest Urology POL, Portland, OR  
Service Locations: Metamark Genetics, Augusta, GA
- 10/15-08/18 **Medical Director** for Urology Professional Association, Tupelo MS  
Service Locations: Metamark Genetics, Augusta, GA

- 10/15-9/17     **Pathologist, Laboratory Medicine, PC, Augusta, GA**  
                  Service Locations  
                  Metamark Genetics, Augusta, GA  
                  Trinity Hospital of Augusta, Augusta, GA (ended June '17)
- 06/15-09/15    **Pathologist**  
                  Sunrise Medical Laboratories  
                  Hicksville, NY
- 03/09-02/15    **Pathologist & Associate Medical Director**  
                  Bostwick Laboratories, Inc.  
                  Uniondale, NY and Tempe, AZ
- 07/05-02/09    **Assistant Professor in Pathology**  
                  LSU Health Science Center  
                  Shreveport, LA
- 04/00-06/00    **Post-Doctoral Research Fellow**  
                  Johns Hopkins University School of Medicine  
                  Baltimore, MD

**Professional Experience (cont'd from Page 1)**

- 01/97-03/00    **Post-Doctoral Research Fellow**  
                  University of Tennessee  
                  Memphis, TN
- 12/94-12/96    **Post-Doctoral Research Fellow and Instructor**  
                  LSU Medical Center  
                  New Orleans, LA
- 07/86-06/87    **Resident Physician, General Medicine**  
                  Shanghai Sixth People's Hospital  
                  Shanghai, China

**Licensure**

Active: AL, AZ, CA, CO, CT, DC, FL, GA, IA, IL, LA, MA, MD, MI, MO, MS, NC, NJ, NY, OH, OR,  
PA, RI, SC, TX, UT, VA  
New York COQ, Cytopathology, Histopathology, General Pathology, Oncology – Molecular and Cellular  
Tumor Markers

**Professional Organizations**

United States and Canadian Academy of Pathology  
College of American Pathologist  
American Society for Clinical Pathology  
American Association for the Advancement of Science

**Honors and Awards**

- Research Program Project Award**, 2007-09, Co-Director, Histology core module, Department of Health and Human Services, National Institute of Health, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland. Length of Grant: Five years. Principle Investigator: Matthew B Grisham, Ph.D. Grant Number 2P01DK043785-16.
- Ruth L. Kirschstein National Research Service Award**, 2000, Department of Health and Human Services, Public Health Service, National Institute of Health, Office of Extramural Programs, Bethesda, Maryland. Length of Grant: One Year.

**Pediatric Research Grant Award**, 1996, School of Medicine in New Orleans, LSU Medical Center, New Orleans, Louisiana. Grant Title: Molecular Mechanisms of Immune Responses to Pneumococcal Polysaccharides. Length of Grant: One Year. Principle Investigator: Dr. Jianxiong Bao.

### **Presentations and Publications**

- Bao J**, Anga A, Gu X, Zhang SL and Cotelingam JD. An infant with recurrent maculopapular rashes, anemia, lymphadenopathy, and hepatosplenomegaly. *J La State Med Soc* 2011;163:140-3.
- Chittiboina P, Zhang SH, **Bao JX**, Vannemreddy P and Guthikonda B. Subependymoma at the foramen of monro presenting with intermittent hydrocephalus: case report and review of the literature. *J La State Med Soc* 2010;162(4):214-7.
- Zhang SL, **Bao JR**, Abreo F. Papillary oncocytic cystadenoma of the parotid glands: a report of 2 cases with varied cytologic features. *Acta Cytol.* 2010;53 (4):445-8.
- Liu YY, Gupta V, Patwardhan GA, Bhinge K, Zhao YF, **Bao J**, Mehendale H, Cabot MC, Li YT and Jazwinski M. Glucosylceramide synthase upregulates MDR1 expression in the regulation of cancer drug resistance through cSrc and  $\beta$ -catenin signaling. 2010. *Molecular Cancer*, 9:145

### **Presentations and Publications (cont'd from Page 2)**

- Liu YY, Patwardhan GA, Ying DM, Jazwinski M and **Bao J**. Suppression of Glucosylceramide Synthase Gene Expression: A Novel Approach for Cancer Treatment. 2009. USCAP Annual meeting, Boston, MA.
- Lee S, Carter PR, Watts MN, **Bao J**, and Harris NR. Effects of the endothelin-converting enzyme inhibitor SM-19712 in a mouse model of dextran sodium sulfate-induced colitis. *Inflammatory Bowel Disease*. 2009 Feb 7.
- Ostanin DV, **Bao J**, Kobozev I, Gray L, Robinson-Jackson SA, Kosloski-Davidson M, Price VH, Grisham MB. T cell transfer model of chronic colitis: concepts, considerations, and tricks of the trade. *American Journal of Physiology Gastrointestinal and Liver Physiology*. 2009 Feb;296(2):G135-46.
- Ostanin DV, **Bao J**, and Grisham MB. 2008 Adoptive Transfer of alpha4(CD49d)- Deficient CD4+CD45RBhigh T cells Induces Little Colitis in Lymphopenic Mice. *FASEB J*. 22:1b445.
- Gill M, Mirfakhree M, **Bao J**, Nathan CO. 2008. Unusual findings in our series of fibrous dysplasia of the paranasal sinuses. 201st Combined Otolaryngology Spring Meeting, Orlando FL.
- Li XL, Zhang DQ, Wang D, Knight DS, Yin L, **Bao J**, Liu YY, Glass J, Mathis JM, and Zhang QJ. In vivo survivors of transformed mouse ovarian surface epithelial cells display diverse phenotypes for gene expression and tumorigenicity. *Tumor Biology* 2008;29(6):359-70.
- Li, X.L., D. Wang, **J. Bao**, JM. Mathis and QJ Zhang. 2007. Clones derived from in vivo growing of murine ovarian epithelial cancer cell line IG-10 exhibit different phenotypes for gene expression, tumorigenicity and immune response. Annual Meeting, American Association of Cancer Research. San Francisco, CA.
- Martin S, Buchanan K, **Bao R**, Lowery-Nordberg M. Fluorescence in situ hybridization (FISH) analyses in conjunction with cytopathology for the detection of lung cancer in bronchial brushings. *Journal of Molecular Diagnostics*. 2007; 9(5):664.
- Anga, A., **J Bao**, and J. Cotelingam. 2007 Acute disseminated Langerhans cell histiocytosis. Annual Meeting, American Society for Dermatopathology. Baltimore, MD.
- Moghadamfalahi, M., **J Bao**, and D Shukla, 2006. Gastrointestinal presentations after radiotherapy: role for the clinical information for accurate pathological diagnoses. XXVI International Congress of the International Academy of Pathology, Palais des Congrès de Montréal, Québec, Canada
- Longhurst, Celia M., Jonathan D. Jacobs, Melanie M. White, Joseph T. Crossno Jr., Deborah A. Fitzgerald, **Jianxiong Bao**, Thomas J. Fitzgerald, Rajendra Raghov, and Lisa K. Jennings. 2002. Chinese Hamster Ovary Cell Motility to Fibronectin Is Modulated by the Second Extracellular Loop

of CD9: Identification of a Putative Fibronectin Binding Site. *Journal of Biological Chemistry*. 277(36):32445-32452

Sardar, Vineet M., Tamas Virag, **Jianxiong Bao**, Lisa K. Jennings, Gabor Tigyi, Duane D. Miller. 2000. Design and Synthesis of Antagonists for Phospholipid Growth Factor Receptors. 219<sup>th</sup> American Chemical Society National Meeting. San Francisco, CA.

**Bao, Jianxiong**, Celia M. Longhurst and Lisa Jennings. 1999. A Direct role for the Tetraspanin CD9 in CHO Cell Proliferation and Survival. 39<sup>th</sup> Annual Meeting of America Society for Cell Biology. *Molecular Biology of the Cells*. 10(S):188a

Longhurst, Celia M., G. Albert Cook, **Jianxiong Bao**, Melanie M. White, James J. Greenhaw and Lisa K. Jennings. 1999. CD9, a Major Platelet Surface Protein, Facilitates Cell Movement and Spreading and is Complexed With GPIIb-IIIa. XVIIth Congress of the Internatinal Society on Thrombosis and Haemostasis. Washington D.C. Thrombosis and Haemostasis. Supplement: 712

**Bao, J.X.**, J.T. Crossno, Jr., M.M. White and L.K. Jennings. 1998. Identification of a Functional Epitope in CD9 Extracellular Domain Associated with Haptotactic Motility. *Molecular Biology of the Cell*. 9(S):290a.

**Bao, J.X.**, and L.K. Jennings. 1998. Tetraspanin CD9 Contains an Extracellular Epitope Associated with Increased Cell Proliferation. *Blood*. 92(10)supp.:350a-351a.

**Bao, J.X.**, M.M. White and L.K. Jennings. 1998. Competitive Inhibition of CD9-mediated Haptotactic Motility with a Peptide Homologous to Extracellular Domain of CD9. Seventh Midwest Platelet Conference. Memphis, Tennessee.

### **Presentations and Publications (cont'd from Page 3)**

**Bao, J.X.**, L. Leiva and R.U. Sorensen. 1996. Detection by RT-PCR of CD40L message induced by mitogens and antigens in human peripheral blood mononuclear cells. American Society for Biochemistry and Molecular Biology, American Society for Investigative Pathology and American Association of Immunologists Joint Meeting. New Orleans, Louisiana.

Leiva, L., **J.X. Bao**, D. Hollenbaugh, and R.U. Sorensen. 1995. Hyper IgM syndrome and CNS toxoplasmosis with a high production of circulating  $\gamma\delta$  T-cells. 1995 International Symposium on Clinical Immunology. Sponsored by the Clinical Immunology Society and the Clinical Immunology Committee of the International Union of Immunological Societies. San Francisco, California.

**Bao, J.X.**, and J.D. Clements. 1994. Identification of a gene that codes for a novel hemagglutinin homologous to papA from a murine isolate of E. coli. 94th Annual Meeting of the American Society for Microbiology. Las Vegas, Nevada.

**Bao, J.X.**, and J.D. Clements. 1993. Isolation of the gene that codes for a novel hemagglutinin from *Escherichia coli* colonizing the small intestines of mice. 93rd Annual Meeting of the American Society for Microbiology. Atlanta, Georgia.

**Bao, J.X.**, and J.D. Clements. 1991. Effect of priming on the use of *Salmonella* species as a vaccine carrier. 91st Annual Meeting of the American Society for Microbiology. Dallas, Texas.

**Bao, J.X.**, and J.C. Clements. 1990. Prior immunologic experience potentiates the subsequent antibody response when *Salmonella* strains are used as vaccine carriers. *Infection and Immunity*. 59(10):3841-3845.

**Bao, J.X.**, B. Wang, and ZC. Yang. 1990. Effects of Ephedrine on Postsynaptic Alpha-Adrenoceptors and Presynaptic Beta-Adrenoceptors in Isolated Guinea Pig Portal Veins. *Acta Pharmacologica Sinica*. 11(2):130-3.

### **BOOK CHAPTER**

Clements, J.D., **J.X. Bao**, and L. Cardenas. 1992. Use of attenuated bacteria as live oral vaccine vectors. In R.E. Isaacson (ed.), *Recombinant DNA Vaccines: Rationale and Strategy*. ISBN: 0-8247-8699-8. Marcel Decker, New York. p293-321.

### **INVENTION AND PATENT**

Methods of Modifying Behavior of CD9-Expressing Cells. Jennings, Lisa K., Celia M Longhurst, George A. Cook, **Jianxiong Bao**, Chunxiang Zhang, Melanie M. White, Joseph T. Crossno, Jr., Yi Lu. 2003. United States Patent Application Number: 20040081648; Kind Code: A1; Serial No.: 619323; Series Code: 10; U.S. Current Class: 424/94.63; 435/226; U.S. Class at Publication: 424/094.63; 435/226; International Class: A61K 038/48; C12N 009/64.

**PROFESSIONAL ACTIVITIES**

Member, Clinical Credential Committee, LSUHSC-Shreveport, LA, 2007-2009.

Member, Cancer Committee, LSUHSC-Shreveport, LA, 2005-2009.

Member, Clinical Research Committee, LSUHSC-Shreveport, LA, 2005-2008.