

Jae-O Bae, MD, FACS, FAAP

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Employment

8/2009-Present Pediatric Surgeons of Phoenix
1920 E Cambridge Ave, Suite #201
Phoenix, AZ 85006
602-254-5561

9/2012-Present Pediatric Surgery Medical Director
Scottsdale Health Care- Shea

Academic Appointments

11/2011-Present Clinical Assistant Professor of Surgery
University of Arizona School of Medicine- Phoenix, AZ

9/2011-Present Instructor of Surgery
Mayo Clinic- Phoenix, AZ

Education

7/1996-6/2000 Doctor of Medicine
University of Medicine and Dentistry of New Jersey
Robert Wood Johnson Medical School
Camden, NJ

7/1992-6/1996 Bachelor of Arts, Biology – General Honors
The Johns Hopkins University
Baltimore, MD

Post-graduate Training

7/2007-6/2009 Pediatric Surgery Fellow
University of Texas Southwestern Medical School, Children's Medical Center
Dallas, TX

- 7/2005-6/2007 General Surgery Resident
Columbia University Medical Center, New York-Presbyterian Hospitals
New York, NY
- 7/2003-6/2005 Extracorporeal Membrane Oxygenation (ECMO) Fellow
Morgan Stanley Children's Hospital of New York-Presbyterian
New York, NY
- 7/2000-6/2003 General Surgery Intern & Resident
Columbia University Medical Center, New York-Presbyterian Hospitals
New York, NY

Research

- 7/2003-6/2005 Post-doctoral Research Fellow
Pediatric Tumor Biology Laboratory
Division of Pediatric Surgery
Columbia University College of Physicians and Surgeons
New York, NY
Investigated tumor and vascular adaptive mechanisms to anti-angiogenic therapies in mouse xenograft model of human neuroblastoma

Publications

Bui T, Bankhart M, Mandell G, Dickman P, Bae JO. Thoraco-abdominal enteric duplication cyst in association with neurenteric cyst, axial skeletal anomalies, and malrotation. *Radiology Case Reports*. 2013 Mar; 8(1): [Online].

Zaghloul N, Hernandez SL, **Bae JO**, Huang J, Fisher J, Lee A, Kadenhe-Chiweshe A, Kandel JJ, Yamashiro DJ. Vascular endothelial growth factor blockade rapidly elicits alternative proangiogenic pathways in neuroblastoma. *Int J Oncol*. 2009 Feb;34(2):401-407.

Huang J, **Bae JO**, Tsai JP, Kadenhe-Chiweshe A, Papa J, Lee A, Zeng S, Kornfeld ZN, Ullner P, Zaghloul N, Ioffe E, Nandor S, Burova E, Holash J, Thurston G, Rudge J, Yancopoulos GD, Yamashiro DJ, Kandel JJ. Angiopoietin-1/Tie-2 activation contributes to vascular survival and tumor growth during VEGF blockade. *Int J Oncol*. 2009 Jan;34(1):79-87.

Kadenhe-Chiweshe A, Papa J, McCrudden KW, Frischer J, **Bae JO**, Huang J, Fisher J, Lefkowitz JH, Feirt N, Rudge J, Holash J, Yancopoulos GD, Kandel JJ, Yamashiro DJ. Sustained VEGF blockade results in microenvironmental sequestration of VEGF by tumors and persistent VEGF receptor-2 activation. *Mol Cancer Res*. 2008 Jan;6(1):1-9.

Lee A, Frischer J, Serur A, Huang J, **Bae JO**, Kornfield ZN, Eljuga L, Shawber CJ, Feirt N, Mansukhani M, Stempak D, Baruchel S, Bender JG, Kandel JJ, Yamashiro DJ. Inhibition of cyclooxygenase-2 disrupts tumor vascular mural cell recruitment and survival signaling. *Cancer Research*. 2006 Apr 15;66(8):4378-84.

Bae JO, Frischer JS, Waich M, Addonizio LJ, Lazar EL, Stolar CJ. Extracorporeal membrane oxygenation in pediatric cardiac transplantation. *Journal of Pediatric Surgery*. 2005 Jun; 40(6):1051-6, discussion 1056-7.

Bae JO, Widmann WD, Hardy MA. Cameron Haight: pioneer in the treatment of esophageal atresia. *Current Surgery*. 2005 May-June; 62(3):327-9.

Chapters

Bae J, Skinner MA. Endocrine Disorders and Tumors. *Pediatric Surgery*. 5th Edition. Edited by Holcomb GW & Murphy JP. 2010

Abstracts and Oral Presentations

Bae J, Notrica DM. Laparoscopic distal pancreatectomy in a pediatric patient for blunt grade 3 pancreatic injury (Video). Western Pediatric Trauma Conference 2013 – Beaver Creek, CO. July 2, 2013.

Jaroszewski DE, McMahan LE, Lackey J, **Bae J**, Johnson KN, Notrica DM. Use of FiberWire™ Rib Fixation for Securing the Bars During Minimally Invasive Repair of Pectus Excavatum: Results in 158 patients. Chest Wall Interest Group – Seoul. Seoul, Korea. June 14, 2013.

Bae J, Kadenhe-Chiweshe AV, Yamashiro DJ, Kandel JJ. Suppression of Activin Signaling Rescues Neuroblastoma Angiogenesis during VEGF Blockade. Presented at the 57th Annual Meeting of the Section on Surgery, American Academy of Pediatrics, Washington D.C., October 2005.

Kadenhe-Chiweshe A, **Bae J**, Kandel JJ, Yamashiro DJ. Matrix-growth factor interaction: a novel mechanism of tumor vessel recovery during VEGF blockade. Presented at the 57th Annual Meeting of the Section on Surgery, American Academy of Pediatrics, Washington D.C., October 2005.

Kadenhe-Chiweshe A, Frischer JS, **Bae J**, Huang J, Kandel JJ, Yamashiro DJ. Tumor inhibition corresponds to perturbation and recovery of vasculature during sustained potent VEGF blockade. Presented at the 36th Annual Meeting of American Pediatric Surgical Association, Phoenix, AZ, May 2005.

Bae J, Kandel JJ, Yamashiro DJ. Vascular Changes in Neuroblastoma in Response to VEGF Blockade. Seminar presentation at the Institute for Cancer Genetics, Columbia University, New York, New York, March 2005.

Masciotti J, Abdoulaev G, Hur J, Papa J, **Bae J**, Huang J, Yamashiro D, Kandel J, Hielscher AH. Optical Tomographic and Magnetic Resonance Imaging of Tumor Growth and Regression in Mice Treated with VEGF Blockade. Presented at the BIOS 2005 Biomedical Optics Symposium-Optical Tomography and Spectroscopy of Tissue VII; Photonics West 2005, San Jose, CA, January 2005.

Bae J, Frischer JS, Waich M, Addonizio LJ, Lazar EL, Stolar CJ. Extracorporeal membrane oxygenation in pediatric cardiac transplantation. Presented at the 56th Annual Meeting of the Section on Surgery of the American Academy of Pediatrics, San Francisco, CA, October 2004.

Bae J, Wung JT, Lazar EL, Stolar CJ. ECMO is unlikely to salvage CDH neonates refractory to permissive hypercapnea/spontaneous respiration and delayed surgery. Presented at the 35th Annual Meeting of American Pediatric Surgical Association, Ponte Vedra Beach, FL, May 2004.

Poster Presentations

Troendle D, Sathe M, **Bae J**, Veltkamp J, Megison S, Russo M, Andersen J. Hemosuccus Pancreaticus in a Pediatric Patient with Chronic Pancreatitis. Poster presented at North American Society for Pediatric Gastroenterology, Hepatology, and Nutrition. San Diego, Nov 12-15, 2008.

Kadenhe-Chiweshe AV, **Bae J**, Ullner P, Ferrari E, Popilskis S, Yamashiro DJ, Kandel JJ. Generation of the First Transgenic Nude Mouse Expressing an Endothelial Marker. Poster presented at the 36th Annual Meeting of American Pediatric Surgical Association. Phoenix, AZ, May 2005.

Zaghloul N, **Bae J**, Huang J, Lee A, Kornfield ZN, Papa J, Zimmermann R, Kandel JJ, Yamashiro DJ. Resistance of MYCN-Amplified Neuroblastoma Xenografts to VEGF Blockade. *Pediatric Blood & Cancer*. 2005. Vol 44(6):529-582. Poster presented at the American Society of Pediatric Hematology/Oncology 18th Annual Meeting. Washington, D.C., May 2005.

Honors, Awards

2012 Best Doctors in America®, elected by Pediatric Surgery peers for inclusion, first review selected, 2012-2013

- 2005 14th Annual Resident Research Competition – Second Prize
Department of Surgery, New York-Presbyterian Hospitals (Columbia
University Medical Center)
- 2001 Finalist - Arnold P. Gold Foundation Humanism and Excellence in
Teaching Award by the Columbia University P&S Class of 2002
- 2000 The Rudolph C. Camishion, M.D. Award for Academic Excellence in
Surgery, Class of 2000, UMDNJ-Robert Wood Johnson Medical School

Board Certification

- 3/2010-present Pediatric Surgery
American Board of Surgery
- 1/2008-present General Surgery
American Board of Surgery

Professional Licenses

- 6/2009-present Arizona State Medical License
6/2007-08/31/10 Texas State Medical License
4/2003-01/30/09 New York State Medical License