Rakesh Bam
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Publications

PUBLICATIONS

• Current status of targeted microbubbles in diagnostic molecular imaging of pancreatic cancer. BIOENGINEERING & TRANSLATIONAL MEDICINE
  Jugniot, N., Bam, R., Meuillet, E. J., Unger, E. C., Paulmurugan, R.
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• Efficacy of affibody-based ultrasound molecular imaging of vascular B7-H3 for breast cancer detection. Clinical cancer research : an official journal of the American Association for Cancer Research
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• Nondestructive Detection of Targeted Microbubbles Using Dual-Mode Data and Deep Learning for Real-Time Ultrasound Molecular Imaging. IEEE transactions on medical imaging
  2020

• Toward the Clinical Development and Validation of a Thy1-Targeted Ultrasound Contrast Agent for the Early Detection of Pancreatic Ductal Adenocarcinoma. Investigative radiology
  2020

• Affibody-Indocyanine Green Based Contrast Agent for Photoacoustic and Fluorescence Molecular Imaging of B7-H3 Expression in Breast Cancer. Bioconjugate chemistry
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  2019

• Cell-based selections aid yeast-display discovery of genuine cell-binding ligands: Targeting oncology vascular biomarker CD276
  Stern, L., Lown, P., Kobe, A., Abou-Elkacem, L., Bam, R., Willmann, J., Hackel, B.
  AMER CHEMICAL SOC.2019

• Reciprocal Crosstalk Between YAP1/Hippo Pathway and the p53 Family Proteins: Mechanisms and Outcomes in Cancer. Frontiers in cell and developmental biology
  Raj, N. n., Bam, R. n.
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• Inhibition of IRE1 results in decreased scar formation. Wound repair and regeneration : official publication of the Wound Healing Society [and] the European Tissue Repair Society
  Boyko, T. V., Bam, R. n., Jiang, D. n., Wang, Z. n., Bhatia, N. n., Tran, M. C., Longaker, M. T., Koong, A. C., Yang, G. P.
  2018

• Hypoxia-Induced Endoplasmic Reticulum Stress Tumor Hypoxia
  Chou, C., Bam, R., Yang, Z., Bui, J., Jiang, D., Koong, A.
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• Identification of Doxorubicin as an Inhibitor of the IRE1a-XBP1 Axis of the Unfolded Protein Response. Scientific reports
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- Primary myeloma interaction and growth in coculture with healthy donor hematopoietic bone marrow. *BMC Cancer*. Bam, R., Khan, S., Ling, W., Randal, S. S., Li, X., Barlogie, B., Edmondson, R., Yaccoby, S. 2015; 15


**PRESENTATIONS**

- Inhibition of IRE1-XBP1 Signaling Results in Reduced Tumor Growth and Metastasis of Breast Cancer - 15th International Tumor Microenvironment Workshop

- Sustained growth of primary myeloma cells in coculture with whole donor bone marrow is associated with induced secretion of the microenvironmental mediator of cytokinesis, Hemicentin-1. - American Society of Hematology (12/2014)

- Inhibition of BTK activity in myeloma cells within a supportive microenvironment promotes their growth but suppresses metastasis. - American Society of Hematology (December 2013)

- Healthy donor whole bone marrow cells preconditioned with myeloma patient serum support long-term survival of primary myeloma and reveal altered microenvironmental pathways. - American Society of Hematology (December 2013)

- Macrophages activation by ICAM1 antibody combined with Lenalidomide has enhanced anti-myeloma activity in a supportive microenvironment in vitro and in vivo. - American Society of Hematology (December 2013)

- Primary myeloma plasma cells are capable of growth in adult, normal whole human bone marrow environment. - American Association for Cancer Research (April 2013)

- Cell surface CXCR4 and BTK expression are associated in myeloma cells and osteoclast precursors and meditate myeloma cell homing and clonogenicity, and osteoclastogenesis. - American Society of Hematology (12/2011)

- Deregulated cellular iron metabolism factors mediate iron overload in myeloma cells and osteoclasts, and promote myeloma growth and bone disease. - American Society of Hematology (December 2011)

- BTK mediates SDF-1-induced migration of myeloma cells and osteoclast precursors, osteoclastogenesis and myeloma cell clonogenicity. - American Society for Bone and Mineral Research (9/2011)

- Binding of NS3 helicase to single-stranded/double-stranded DNA junctions. - Annual Biomedical Research Conference for Minority Students (11/2007)