



## **CABS Young Investigator Symposium**

**February 15-16, 2022**

**Tuesday February 15th, 2022**

**\*All listed times are in US CENTRAL TIME ZONE**

2:00-2:05pm Welcome - Dr. Julie (Sterling) Rhoades, CABS President

2:05-2:25pm "An abbreviated history of cancer and bone: Basic/Translational Discoveries" - Dr. Julie (Sterling) Rhoades, Vanderbilt University Medical Center

2:25pm-3:05pm Young Investigator Session: Cellular crosstalk in the bone microenvironment; Chair: Dr. Julie (Sterling) Rhoades

2:25-2:35pm "Notch3 signaling between myeloma cells and osteocytes in the tumor niche promotes tumor growth and bone destruction" - Hayley Sabol, University of Arkansas Medical School \*CABS New Investigator Award recipient

2:35-2:45pm "Polyaneuploid Cancer Cells (PACCs) as metastasis-competent cells" - Mikaela Mallin, Johns Hopkins Medical Institute

2:45-2:55pm "Pathological Crosstalk Between Osteocytes and Breast Cancer Cells in Bone Metastasis" - Dr. Manish Adhikari, University of Arkansas Medical School

2:55-3:05pm "A Tunable, Bone Marrow Mimetic Microenvironment Helps Elucidate How Stiffness Dictates Breast Cancer Cell Invasiveness and Proliferation in the Bone Marrow" - Logan Northcutt, Vanderbilt University

3:05pm-3:30pm Virtual Networking Break

3:30-3:50pm "Recent cutting-edge discoveries in cancer and bone: Clinical science" - Dr. Janet Brown, University of Sheffield

3:50-4:40pm Young Investigator Session: Therapeutic Targets; Chair: Dr. Patricia Juarez, Centro de Investigación Científica y de Educación Superior de Ensenada (CICESE)

3:50-4:00pm "Acid Ceramidase (ASAH1) mediates proteasome inhibitor resistance through modulation of anti-apoptotic proteins in multiple myeloma" - Dr. Ryan Bishop, Moffitt Cancer Center, \*CABS New Investigator Award recipient

4:00-4:10pm "Novel methods of targeting IL-1 signaling for the treatment of breast cancer bone metastasis" - Jiabao Zhou, University of Sheffield

4:10-4:20pm "Dual epigenetic/autophagy inhibition as a novel strategy to tackle Triple Negative Breast Cancer progression and bone metastasis" - Dr. Marilena Tauro, Moffitt Cancer Center

4:20-4:30pm "Pharmacists' Experience of Adjuvant Bisphosphonate use in Early Breast Cancer A National UK Survey" - Dr. Elisavet Theodoulou, University of Sheffield

4:30-4:40pm "Epigenetic silencing of SLC17A7 promotes osteosarcoma growth" - Niveditha Nerlakanti, Moffitt Cancer Center

4:40 PM Session Close

4:45-5:30pm Virtual Networking Session

**Wednesday February 16th, 2022**

**\*All listed times are in US CENTRAL TIME ZONE**

**2pm - 5:30pm US Central time**

2:00-2:05pm Welcome - Dr. Julie (Sterling) Rhoades, CABS President

2:05-2:25pm "Recent cutting-edge discoveries in cancer and bone: Basic science"  
- Dr. Claire Edwards, University of Oxford

2:25pm-3:05pm Young Investigator Session: Osteoimmunology; Chair: Dr. Janet Brown, University of Sheffield

2:25-2:35pm "γδ-Enriched CAR-T Cell Therapy Significantly Mitigates Bone Metastatic Castrate Resistant Prostate Cancer and Associated Bone Disease"  
- Dr. Jeremy Frieling, Moffitt Cancer Center, \*CABS New Investigator Award recipient

2:35-2:45pm "Selective glutamine metabolism inhibition in tumor cells reduces metastasis and improves antitumor T lymphocyte activity in triple-negative breast cancer" - Dr. Deanna Edwards, Vanderbilt University Medical Center

2:45-2:55pm "Targeting SLAMF7 to disrupt myeloma-osteoclast interaction: elotuzumab's ADCC activity with Th1-like gdT cells towards osteoclasts and myeloma cells" - Dr. Hirofumi Tenshin, Tokushima University

2:55-3:05pm "Osteal macrophage contributions in bone regeneration and osteoporosis bone pathology, and their implication in bone cancer" - Dr. Lena Batoon, University of Michigan

3:05pm-3:30pm Virtual Networking Break

3:30-3:50pm "An abbreviated history of cancer and bone: Clinical Management" - Dr. Catherine Van Poznak, University of Michigan

3:50-4:40pm Young Investigator Session: Signaling in the tumor-bone niche; Chair: Dr. Katherine Weilbaecher, Washington University in St. Louis

3:50-4:00pm "TGF-β-activated stromal cells promote breast cancer dormancy escape through matrix remodeling pathways"- Dr. Miranda Clements, National Institutes of Health

4:00-4:10pm "Targeted RNA-seq signature of circulating tumor cells (CTCs) from metastatic breast cancer (BC) patients correlates with the onset of bone-only metastases" - Dr. Stella D'Oronzo, University of Bari Aldo Moro

4:10-4:20pm “Investigating the TGF- $\beta$ /integrin  $\beta$ 3 signaling axis as a mediator of chemoresistance in breast cancer bone metastases” - Dr. Kristin Kwakwa, Washington University in St. Louis

4:20-4:30pm “Mechanical unloading promotes bone destruction and myeloma tumor expansion” - Dr. Kotaro Tanimoto, Hiroshima University

4:30-4:40pm “The role of the SCF/c-Kit pathway in cancer-induced bone pain” - Dr. Sun Park, Wake Forest University

4:40pm Session Close

4:45 - 5:30pm Virtual Networking Session