2017 CANCER AND BONE SOCIETY (CABS) CONFERENCE

Thursday, May 4, 2017

Registration Opens (3:00pm – 6:00pm) Outside Clearwater Lobby

I. Young Investigator Networking Session (4:00pm – 5:30pm) Clearwater Ballroom

   Session Chairs: Patricia Juarez and Rachelle Johnson

   Julie Sterling, "How to network at scientific meetings"

CABS attendees at all career stages are invited and encouraged to attend!

II. Welcome Reception and Poster Session I (5:30pm – 7:20pm)

   Welcome Reception (5:30pm – 7:20pm) Rotunda (1st floor adjacent to Clearwater Ballroom)

   Poster Session I (6:00 pm – 7:00pm) Metro Suite

   Posters #1-31 ONLY (Please take down posters before 8am tomorrow)

Friday, May 5, 2017

Registration Opens (8:00am – 5:00pm) Outside Clearwater Lobby

Continental Breakfast (7:00am – 9:00am) Clearwater Ballroom

I. Welcome (8:00am – 8:30 am) Clearwater Ballroom

   Lynda Bonewald (Director, Indiana Center for Musculoskeletal Health)

   Anantha Shekhar (Director, Indiana Clinical and Translational Sciences Institute and

   Associate Vice President of Research, and Clinical Affairs)

II. Tumor Dormancy (8:30am – 10:10am) Clearwater Ballroom

   Session Chairs: Peter Croucher and Penelope Ottewell
8:30am – 8:55am : Sheila Stewart (Washington University)

"Age-related changes in the bone drive metastasis"

8:55am – 9:20am : Michelle McDonald (Garvan Institute)

"Investigating interactions between tumor cells and the bone microenvironment"

9:20am – 9:45am : Rachelle Johnson (Vanderbilt University)

"Hypoxia in tumor dormancy and bone metastatic disease"

9:45am – 10:10am : Young Investigator Presentations

"RANKL-induced bone remodeling controls prostate cancer cell dormancy in an ex vivo calvaria model" Niall Byrne (Garvan Institute)

"Epigenetic regulation of the LIFR and its role in breast cancer dormancy" Miranda Sowder (Vanderbilt University)

"Single-cell RNA sequencing of dormant myeloma cells identifies new therapeutic targets" Weng Hua Khoo (Garvan Institute)

10:10am – 10:30am : Coffee and open discussion

(Session II Poster presenters, please hang posters during break)

III. Skeletal Effects of Cancer in Bone (10:30am – 12:10pm) Clearwater Ballroom

Session Chairs: Toshio Matsumoto and Patricia Juarez

10:30am – 10:55am : Evan Keller (University of Michigan)

"Osteocytes in prostate cancer bone metastasis"

10:55am – 11:20am : Stavroula Kousteni (Columbia University)

"Genetic control of the bone marrow niche in Acute Myeloid Leukemia"

11:20am – 11:45am : Penelope Ottewell (University of Sheffield)
"Model systems of human breast cancer metastasis to human bone predict new biomarkers and therapeutic targets"

11:45am – 12:10pm: Young Investigator Presentations

"Novel Cytoplasmic Functions of the Vitamin D Receptor in Breast and Prostate Cancer" Trupti Trivedi (University of Sydney)

"MMP Processing of PTHrP Yields a Selective Regulator of Osteogenesis, PTHrP1-17" Jeremy Frieling (Moffitt)

"In vitro and in vivo evidence that RANK/RANKL promotes early breast cancer dissemination to the bone marrow" Sofia Sousa (INSERM)

12:10pm – 1:30pm: Lunch and Poster Session II

Lunch (12:10pm – 1:30pm) Rotunda/Clearwater Ballroom

Poster Session II (12:30pm – 1:30pm) Metro Suite

Posters #32-61 ONLY (Please take down posters by 2pm TODAY)

IV. Fat Cells, Adipokines, and Metabolism (1:30pm – 3:10pm) Clearwater Ballroom

Session Chairs: Florent Elefteriou and Laura Wright

1:30pm – 1:55pm: Claire Edwards (University of Oxford)

"Adipokines and adiposity in myeloma bone disease"

1:55pm – 2:20pm: Izabela Podgorski (Wayne State University)

"Functional contribution of marrow adipocytes to tumor survival pathways in bone"

2:20pm – 2:45pm: Michaela Reagan (University of Maine/Tufts)

"Bone marrow adipose tissue and multiple myeloma"

2:45pm – 3:10pm: Young Investigator Presentations

"Modified Herpes Simplex Virus (HSV1716 (SEPRESHVIR)) induces potent
"myeloma oncology in vitro and in vivo and prevents cell line regrowth" Simon Tazzyman (Sheffield)

"Multiple myeloma regulates bone marrow adipocyte number, localisation and adipokine secretion" Emma Morris (Oxford)

"Decreased JMJD3 Expression in Mesenchymal Stem Cells Contributes to Long-term Suppression of Osteoblast Differentiation in Multiple Myeloma" Wei Zhao (IUSM)

3:10pm – 3:30pm : Coffee and open discussion

V. Other cells affecting tumor growth in bone and bone pain (3:30pm - 5:10pm)
Clearwater Ballroom

Session Chairs: David Roodman and Theresa Guise

3:30pm – 3:55pm : Toshiyuki Yoneda (IUPUI)

"Cross-talk between breast cancer cells and sensory nerves in bone"

3:55pm – 4:20pm : Roberta Faccio (Washington University)

"Immunosuppressive role of Dkk1 in cancer via regulation of myeloid suppressor cells"

4:20pm – 4:45pm : Jesus Delgado-Calle (IUPUI)

"Role of osteocytes in multiple myeloma induced bone disease"

4:45pm – 5:10pm : Young Investigator Presentations

"A novel osteolineage-derived cancer-associated fibroblast population in primary tumors expresses DKK1 and enhances tumor growth" Biancamaria Ricci (Washington University)

"Sympathetic Activation Alters the Bone Vasculature: Implication for Osteotropic Breast Cancer Metastasis" Patrick Mulcrone (Vanderbilt University)

"Targeting bone pain: Multiple myeloma increases nociceptive markers"
through interactions with the bone microenvironment” Sam Olechnowicz (Oxford)

5:10pm – 5:30pm : Break

VI. New Models for Cancer in Bone / Bone Biomechanics (5:30pm – 7:10pm)
Clearwater Ballroom

Session Chairs : Alex Robling and Maureen Lynch

5:30pm – 5:55pm : Julie Sterling (Vanderbilt University)

"3D Bone models to study the complex physical and cellular interactions between tumor and the bone microenvironment"

5:55pm – 6:20pm : Sarah Amend (Johns Hopkins University)

"Revisiting seed and soil: the "cancer swamp" promotes the lethal phenotype"

6:20pm – 6:45pm : Jeffry Nyman (Vanderbilt University)

"Role of biomechanics in tumor-induced bone disease"

6:45pm – 7:10pm : Young Investigator Presentations

"3D in vitro Bone-templated Model of Tumor-induced Bone Disease" Joseph Vanderburgh (Vanderbilt University)

"Bone-induced expression of integrin β3 on breast cancer metastases enables targeted nanotherapy“ Michael Ross (Washington University)

"Delivery of Nanoparticle-Encapsulated Gli Inhibitor Blocks Tumor-Induced Bone Disease” Kristin Kwakwa (Vanderbilt University)

Saturday, May 6, 2017

Continental Breakfast (7:00am – 9:00am) Rotunda (1st floor adjacent to Clearwater Ballroom)
I. Genomics and Immunoncology of Bone Metastases (Clinical focus) (8:00am – 9:40am) Metro Suite

Session Chairs: Kathy Weilbaecher and Philippe Clezardin

8:00am – 8:25am : Madhav Dhodapkar (Yale)

"Insights from new humanized models to study tumor-host interface"

8:25am – 8:50am : Gary Stein (University of Vermont)

"The architecturally dynamic genetic and epigenetic landscape of cancer biology and pathology"

8:50am – 9:15am : Carl Walkley (St. Vincent's Institute)

"Development and application of murine models of osteosarcoma for preclinical target discovery and validation"

9:15am – 9:40am : Young Investigator Presentations

"HTLV-1 Viral Oncogene HBZ Induces Lymphoproliferative and Osteolytic Bone Disease in Transgenic and Humanized Mouse Models" Jingyu Xiang (Washington University)

"TGF-β’s Role in Myeloid Regulation of Tumor-Induced Bone Disease (TIBD)" Denise Buenrostro (Vanderbilt University)

"HDAC inhibition: A novel therapeutic approach for the treatment of primary and lung metastatic osteosarcoma" Jeremy McGuire (Moffitt)

9:40am – 10:00am : Coffee and open discussion

II. New therapeutic approaches in the clinical management of Cancer in Bone (10:00am – 11:45am) Metro Suite

Session Chairs: Cathy van Poznak and Rebecca Silbermann

10:00am – 10:30am : Rob Coleman (University of Sheffield)
"Clinical advances in prevention and treatment of bone metastases"

10:30am – 11:00am : Noopur Raje (Harvard)

"Biology and treatment of myeloma related bone disease"

11:00am – 11:15am : Young Investigator Presentations

"CaMKK2 Inhibition as a “Dual-Hit” Strategy against ADT-Induced Osteoporosis and Bone-Metastatic Prostate Cancer" Ushashi Dudwal (IUSM)

"Dual BET domain-kinase Inhibitors for the treatment of Multiple Myeloma” Marilena Tauro (Moffitt)