

## 29th July 2019

### Registration

1:30PM - 3:00PM

### Welcome & Introduction from Gail Risbridger Judith Clements

3:00PM - 3:30PM

### Session 1 - Therapeutic targeting of the TME

3:30PM - 5:00PM

3:30 PM **Dietmar W Hutmacher**

Exerzitium of Engineering Tumor Microenvironments *id# 63060*

4:00 PM **Rob G Ramsay**

Evaluating and manipulating the immune landscape in the peritoneal microenvironment that supports metastases arising from colorectal primary tumors *id# 61870*

4:30 PM **Bonnie Sloane**

An Integrated Tumor Architecture and Microenvironment Engineering (iTAME) Framework for Modeling Effects of the Microenvironment on Malignant Progression and Treatment Response  
*id# 61818*

### General discussion with panel of these speakers

5:00PM - 6:00PM

### Welcome Reception

6:00PM - 8:00PM

## 30th July 2019

### Registration

8:00AM - 5:00PM

### Session 2 - Modelling the TME in vivo

9:00AM - 10:30AM

Chair: Dietmar Hutmacher

9:00 AM **Bettina Weigel**

Guided Cancer Cell Invasion along Tissue Highways *id# 61857*

9:30 AM **Jacqui A McGovern**

Humanizing the prostate microenvironment reduces prostate cancer metastasis to tissue-engineered human bone *id# 61805*

9:50 AM **Marietta Landgraf**

Targeted Camptothecin-loaded Nanoparticles for Breast Cancer Therapy in a Bioengineered Mouse Model *id# 61715*

10:10 AM **David R Croucher**

Extracellular matrix stiffness promotes oncogenic JNK signalling and metastatic outgrowth in triple negative breast cancer. *id# 61906*

## Morning Tea

10:30AM - 11:00AM

## Session 3 - Modelling the TME in vitro

11:00AM - 12:30PM

Chair: Gail Risbridger

11:00 AM **David Bryant**

Development of a functional genomics cancer cell invasion pipeline using 3-Dimensional spheroid culture *id# 62967*

11:30 AM **Martin Ehrbar**

Engineered bone marrow to study leukemia and metastasis of breast cancer *id# 61965*

12:00 PM **Laura J Bray**

Three dimensional *in vitro* models for the study of tumour angiogenesis *id# 61786*

12:15 PM **Christoph Meinert**

On-demand extracellular matrix reinforcement produces stable capillary-like networks *in vitro* *id# 62177*

## Lunch Break

12:30PM - 1:30PM

## Session 4 - Proteases and the TME

1:30PM - 3:00PM

1:30 PM **Thomas Reinheckel**

Proteases in environment-induced functional plasticity of metastasis-initiating murine breast cancer cells *id# 62819*

2:00 PM **Irit Sagi**

Unraveling novel proteolytic mechanisms at the tumor microenvironment of pancreatic cancers *id# 61778*

2:30 PM **Jay R Perry**

Matrix metalloproteinases and urokinase plasminogen activation drive metastasis in cutaneous squamous cell carcinoma *id# 61790*

2:45 PM **Peter Janes**

Targeting the ADAM10 metalloprotease in tumours and the TME *id# 61804*

## Afternoon Tea

3:00PM - 3:30PM

## Session5 - Proteases and the TME

3:30PM - 5:10PM

3:30 PM **Klaudia Brix**

Role of KLKs & other proteases in the thyroid microenvironment *id# 62185*

4:00 PM **Maren Rehders**

Thyroid glands of mice with induced hypothyroidism show altered expression levels of proteolytic enzymes and ECM alterations accompanied by hyperproliferation of thyroid epithelial cells *id# 61754*

4:20 PM **Roger J Daly**

Resolving intercellular communication within the prostate cancer microenvironment through mass spectrometry-based proteomics *id# 61801*

4:40 PM **Paul Timpson**

CAF hierarchy driven by pancreatic cancer cell p53-status creates a pro-metastatic and chemoresistant environment via perlecan *id# 64200*

## Conference Dinner

7:00PM - 10:00PM

**31st July 2019**

## Registration

8:00AM - 1:30PM

## Session 6 - Immunotherapy & immune TME

9:00AM - 10:30AM

9:00 AM **Dirk Busch**

Lymphocyte Engineering for adoptive immunotherapy *id# 63063*

9:30 AM **Linda K.H Teng**

SAMD14: A novel mast cell-derived tumour suppressor regulates prostate tumour immunity. *id# 61951*

9:50 AM **Mitchell Lawrence**

Surveying the epigenome landscape of the tumour microenvironment for markers of high risk prostate cancer *id# 61722*

10:10 AM **Marina Pajic**

Modulation of the Src/JAK/STAT3 axis within the complex tumor microenvironment: optimizing drug targeting in pancreatic cancer. *id# 61918*

## Morning Tea

10:30AM - 11:00AM

## **Session 7 - Drug Discovery & the TME: Translation to the clinic**

11:00AM - 12:30PM

11:00 AM **Chris Scott**

Activation of Extrinsic apoptosis using a nanomedicine platform *id# 62818*

11:30 AM **David Herrmann**

Personalised medicine approach in pancreatic cancer reveals fine-tuned stromal manipulation improves the global response to gemcitabine and Abraxane *id# 62155*

12:00 PM **David Waugh**

Accelerating precision approaches to target the inflammatory microenvironment of PTEN-deficient prostate cancer *id# 63061*

## **Conference Close and Awarding of Prizes**

12:30PM - 1:00PM

**Dietmar W Hutmacher**