# 11th INTERNATIONAL HEIDELBERG SYMPOSIUM ON STEM CELLS AND CANCER

## Pre-Meeting AML WORKSHOP

Sunday, September 10, 2023 - 10:00 - 15:00

### Innovative strategies to target acute myeloid leukemia

<table>
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<th>Time</th>
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| 10:00 - 10:10 | Welcome and opening remarks  
Carsten Müller-Tidow, Heidelberg                                    |
| Chairs:  | Carsten Müller-Tidow and Caroline Pabst  
(Main Talks 20 min + 10 min Q&A)                                     |
| 10:10 - 10:40 | Innovative comprehensive genomic AML diagnostics  
Lars Bullinger, Berlin                                                |
| 10:40 - 11:10 | Novel therapies for myeloid malignancies  
Ross L. Levine, New York                                               |
| 11:10 - 11:40 | Clinical translation of menin inhibitors in AML  
Scott Armstrong, Boston                                               |
| 11:40 - 12:00 | Short Talk (15+5): Clinical response to venetoclax in acute myeloid leukemia is determined by leukemic stem cell subtypes  
Alexander Waclawiczek, Heidelberg                                      |
| 12:00 - 12:30 | Found in translation: Turning leukemia stem cell discoveries into clinical trials  
Daniel Pollyea, Denver                                               |
| 12:30 - 13:30 | GROUP PICTURE AML WORKSHOP, LUNCH BREAK                                 |
| Chairs:  | Judith Zaugg and Simon Renders  
(Main Talks 20 min + 10 min Q&A)                                     |
| 13:30 - 14:00 | Malignant Deamination as a Driver of Acute Myeloid Leukemia Stem Cell Generation  
Catriona Jamieson, San Diego                                         |
| 14:00 - 14:30 | Immunologic targeting of hematopoietic stem and myeloid leukemia cells  
Markus Manz, Zurich                                                  |
| 14:30 - 15:00 | Risk stratification in older intensively treated patients with acute myeloid leukemia  
Paresh Vyas, Oxford                                                   |
| 15:00      | END OF CLINICAL WORKSHOP – COFFEE BREAK                                |
# 11th International Heidelberg Symposium on Stem Cells and Cancer

## Scientific Program

**Sunday, Day 1: 16:00 - 19:30**

<table>
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<td>16:00 - 16:15</td>
<td><strong>Welcome by Carsten Müller-Tidow &amp; Andreas Trumpp</strong></td>
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| **Chairs:** | *Marieke Essers & Michael Milsom*  
(Main Talks 20 min + 10 Q&A; Short Talks 10+5) |
| 16:15 - 16:55 | **Keynote Lecture:** What makes a stem cell a stem cell and how does it go bad?  
**John Dick,** Toronto |
| 16:55 - 17:25 | Small Cell Lung Cancer Biology and Biomarkers  
**Caroline Dive,** Manchester |
| 17:25 - 17:40 | **Short Talk:** Chromothripsis orchestrates leukaemic transformation in blast phase MPN through targetable amplification of DYRK1A  
**Charlotte Brierley,** Oxford |
| 17:40 - 18:10 | Decoding the organizational principles of brain cancer applying the principles of adult stem cell driven regeneration  
**Ana Martin-Villalba,** Heidelberg |
| 18:10 - 19:30 | **WELCOME RECEPTION** |
| 19:30      | **END OF DAY 1** (→ Speakers Dinner by invitation only)** |

**Monday, Day 2: 09:00 - 18:30**

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| **Chairs:** | *Almut Schulze & Andreas Trumpp*  
(Main Talks 20 min + 10 Discussion; Short Talks 10+5) |
| 09:00 - 09:50 | **Keynote Lecture** (40+10): Leptin Receptor+ cells promote bone marrow innervation and regeneration by synthesizing nerve growth factor  
**Sean Morrison,** Dallas |
| 09:50 - 10:20 | Exploiting immune surveillance to target colorectal cancer evolution and mutability  
**Alberto Bardelli,** Milano |
| 10:20 - 10:50 | Modeling and targeting advanced colorectal cancer  
**Rene Jackstadt,** Heidelberg |
| 10:50 - 11:20 | **COFFEE BREAK** |
| 11:20 - 11:50 | Stem cells, immune evasion and metastasis in colorectal cancer  
**Eduard Batlle,** Barcelona |
11:50 - 12:05  **Short Talk**: Go against the flow: retrograde movement as a new stem cell regulation mechanism in the intestine  
**Maria Azkanaz**, Amsterdam

12:05 - 12:35  Genomic Profiles and Associated Survival Prognosticators in Ancestry-Diverse Patients with Acute Myeloid Leukemia  
**Ann-Kathrin Eisfeld**, Columbus

12:35 - 13:00  Ten Lightning Talks - poster teasers - à 1 minutes

13:00 - 13:45  **GROUP PICTURE, LUNCH BREAK, EXHIBITION**

13:45 - 15:00  Poster Session 1 (odd numbered posters) and Exhibition

**Chairs:**  
**Fiona Watt & Martin Sprick**  
(Main Talks 20 min + 10 Discussion; Short Talks 10+5)

15:00 - 15:30  From Stem Cells in Leukemia to Neurons in Pancreatic Cancer  
**Andreas Trumpp**, Heidelberg

15:30 - 15:45  **Short Talk**: The Curated Cancer Cell Atlas enables a comprehensive characterisation of intra-tumour heterogeneity across cancers  
**Michael Tyler**, Rehovot

15:45 - 16:15  Chromatin complexes control gene expression in hematopoiesis and leukemia  
**Scott Armstrong**, Boston

16:15 - 16:45  Circulating tumor cells  
**Nicola Aceto**, Zurich

16:45 - 17:15  **COFFEE BREAK**

17:15 - 17:45  Mechanisms Driving Clonal Hematopoiesis  
**Margaret Goodell**, Houston

17:45 - 18:00  **Short Talk**: A novel imaging approach suggests a critical role for cancer stem cells as sensitive sensors of microenvironmental quality in metastatic progression  
**Binwu Tang**, Bethesda

18:00 - 18:30  Extrachromosomal circular DNAs in cancer  
**Anton Henssen**, Berlin

18:30  **END OF DAY 2** (→ Evening reception by invitation only)
Tuesday, Day 3: 09:00 - 17:30

Chairs: Marc Thier & Moritz Mall
(Main Talks 20 min + 10 Discussion; Short Talks 10+5)

09:00 - 09:30 Deciphering and modeling clonal hematopoiesis and evolution to MPN/AML
Ross Levine, New York

09:30 - 10:00 Regulation of dormant hematopoietic stem cells
Nina Cabezas-Wallscheid, Freiburg

10:00 - 10:30 Clonal resolution of hematopoietic stem cell aging
Michael Milsom, Heidelberg

10:30 - 11:00 Ribosomal RNA methylation signatures drive plasticity in AML and lung cancer
Carsten Müller-Tidow, Heidelberg

11:00 - 11:30 COFFEE BREAK

11:30 - 12:00 Cerebral organoids: Modelling human brain development and tumorigenesis in stem cell-derived 3D culture
Jürgen Knoblich, Vienna

12:00 - 12:15 Short Talk: An LSC-specific CRISPRi screen demonstrates functional diversity of long non-coding RNAs in acute myeloid leukemia
Silvia Schäfer, Dresden

12:15 - 12:45 The glioblastoma organism and its cellular drivers
Frank Winkler, Heidelberg

12:45 - 13:05 Ten Lightning Talks - poster teasers - à 1 minutes

13:05 - 13:45 LUNCH BREAK AND EXHIBITION

13:45 - 15:00 Poster Session 2 (even numbered posters) and Exhibition

Chairs: Simon Raffel & Christoph Plass
(Main Talks 20 min + 10 Discussion; Short Talks 10+5)

15:00 - 15:30 Systems epigenetics to study cellular processes and disease mechanisms
Judith B. Zaugg, Heidelberg

15:30 - 16:00 From single-cell landscapes to spatial architecture in health and disease
Simon Haas, Berlin/Heidelberg

16:00 - 16:30 Where, when and how? Characterizing the properties of age-related hematopoietic clones at a population and single cell level
Paresh Vyas, Oxford

16:30 - 17:00 Space-flight accelerates human hematopoietic stem cell aging and clonal hematopoiesis through APOBEC3 mutagenic enzyme deregulation
Catriona Jamieson, San Diego

17:00 - 17:30 Poster Prizes & Best Short Talk
Concluding Remarks: Carsten Müller-Tidow and Andreas Trumpp
17:30

END OF CONFERENCE