

## Our Thanks



Burggemeinde  
Bern



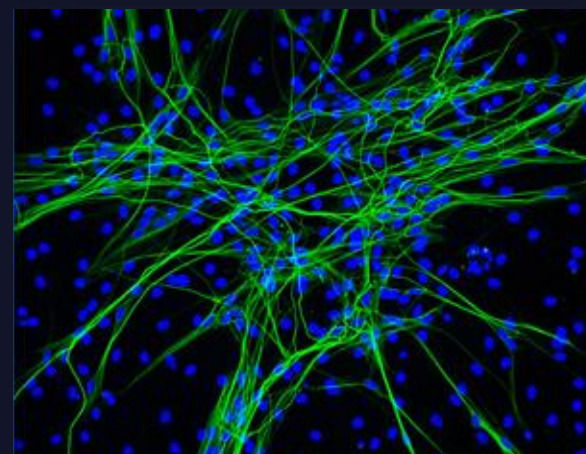
Our special thanks goes:

To all the speakers for their contribution and scientific success of this meeting

To the "Forschungstiftung Thoraxchirurgie" (Prof R. Schmid), the Medical Faculty of the University of Bern, the "Burggemeinde Bern", Miltenyi Biotec GmbH, CELLnTEC Advanced Cell System AG, Carl Zeiss AG and Nikon AG for their financial support.

The SCRM Steering Committee

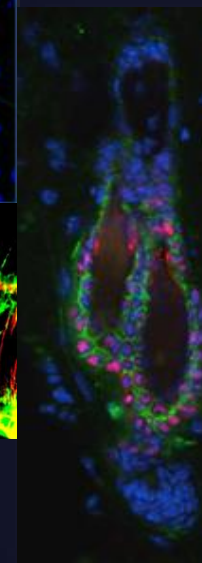
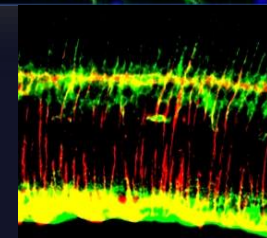
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A collaboration between Insel Spital,  
Medical and Vetsuisse Faculty

The SCRM Steering Committee:

Prof. Eliane J. Müller  
Prof. Volker Enzmann  
Prof. Benjamin Gantenbein  
Dr. Amiq Gazdhar  
PD Carsten Riether  
Prof. Daniel Surbek  
Prof. Emeritus Thomas Krause



## Program

# Annual Meeting 2018: Highlights from Bern

SCRM Platform, University of Bern

December 7<sup>th</sup> 2018

Haus der Universität, Schlösslistrasse 5, 3012 Bern

## Program

12h30-13h00	<b>Registration</b>
13h00-13h15	<b>Welcome – Prof. Eliane J. Müller</b> Inselspital University Hospital, Medical and Vetsuisse Faculty University of Bern
13h15-13h45	Organoids <b>PD Marta Roccio</b> , Audiology, DBMR, University of Bern <i>3D organoid cultures for the derivation of sensory hair cells and neurons from pluripotent stem cells and somatic human fetal progenitors</i>
13h45-14h15	Stem Cells Biology <b>Prof. Nadia Mercader-Huber</b> , Institute of Anatomy, University of Bern <i>From cardiac fibrosis to heart regeneration: lessons from the zebrafish</i>
14h15-14h45	RNA & Cancer <b>Prof. Rory Baldwin Johnson</b> , DBMR, University of Bern <i>The role of non-coding DNA/RNAs in our body</i>
14h45-15h15	<b>Coffee break</b>
15h15-15h45	Cancer and Stem Cells <b>PD Carsten Riether</b> , Tumor Immunology, DBMR, University of Bern <i>Immune control of leukemia stem cells</i>
15h45-16h15	<b>Prof. Sven Rottenberg</b> , Institute of Animal Pathology, Vetsuisse University of Bern <i>BRCA-deficient mammary tumor organoids to study anti-cancer therapy resistance</i>
16h15-16h45	Panel Discussion – Together We Shape the Future Chairs: Prof. Eliane J. Müller, Prof. Volker Enzmann Steering Committee, Speakers & the Audience <b>Special guest: Prof. Daniel Candinas, Vice-Rector Research</b> <i>Update on the Bern Center for Precision Medicine</i>
16h45-17h00	<b>SCRM Poster Award 2018</b> Announcement and presentation of the best Poster selected at the DBMR Day of Bio Medical Research
17h00-18h00	<b>Networking Aperitif</b>

## Papers

### PD Marta Roccio

*Perny M, et al, Generation of otic sensory neurons from mouse embryonic stem cells in 3D culture, Front Cell Neurosci, 11, 2017.*

*Roccio M, et al, Molecular characterization and prospective isolation of human fetal cochlear hair cell progenitors, Nat Commun, 9, 2018.*

### Prof. Nadia Mercader-Huber

*Sánchez-Iranzo H. et al, Transient fibrosis resolves via fibroblast inactivation in the regenerating zebrafish heart, Proc Natl Acad Sci USA, 2018.*

*Sánchez-Iranzo H, et al, Tbx5a lineage tracing shows cardiomyocyte plasticity during zebrafish heart regeneration, Nat Commun, 9, 2018.*

### Prof. Rory Johnson

*Uszczynska-Ratajczak B, et al, Towards a complete map of the human long non-coding RNA transcriptome, Nat Rev Genet, 19, 2018.*

*Lagarde J, et al, High-throughput annotation of full-length long noncoding RNAs with capture long-read sequencing, Nat Genet, 49, 2017.*

*Lanzós A, et al, Discovery of Cancer Driver Long Noncoding RNAs across 1112 Tumour Genomes: New Candidates and Distinguishing Features, Sci Rep, 7, 2017*

### PD Carsten Riether

*Riether C, et al, CD70/CD27 signaling promotes blast stemness and is a viable therapeutic target in acute myeloid leukemia, J Exp Med, 214, 2017.*

### Prof. Sven Rottenberg

*Darte AA, et al, BRCA-deficient mouse mammary tumor organoids to study cancer-drug resistance, Nat Methods, 15, 2018.*

*Sachs N, et al, A Living Biobank of Breast Cancer Organoids Captures Disease Heterogeneity, Cell, 172, 2018.*

*Barazas M, et al, The CST Complex Mediates End Protection at Double-Strand Breaks and Promotes PARP Inhibitor Sensitivity in BRCA1-Deficient Cells, Cell Rep, 15, 2018.*

*Gogola E, et al, Selective Loss of PARG Restores PARylation and Counteracts PARP Inhibitor-Mediated Synthetic Lethality, Cancer Cell, 11, 2018.*

*Noordermeer SM, et al, The shieldin complex mediates 53BP1-dependent DNA repair, Nature, 560, 2018.*