



Forschen für ein Leben ohne Krebs



# **PDN** presents



October 20th - 21st, 2017 - Herz-Jesu-Kloster, Neustadt



### Welcome



Dear participants,

It is a great pleasure for us to warmly welcome you to the DKFZ PostDoc Network Retreat 2017.

The DKFZ PostDoc Network Retreat has developed over the years into an excellent networking platform helping participants to shape their future careers. We highly appreciate the engagement of our PostDocs and would like to use this opportunity to thank you for your commitment.

This year, Nina Cabezas-Wallscheid, independent Group Leader at the Max Planck Institute of Immunobiology and Epigenetics, will talk about her academic career path, Eva-Maria Gottmann, Business Creation Manager at German EIT Health, will provide an insight into entrepreneurship, and Maria Papatriantafyllou from FEBS Letters will give an outline of life in scientific publishing.

We wish all participants a successful retreat and encourage you to use this occasion to expand your professional network.

Sincerely,

Prof. Dr. Michael Baumann

Prof. Dr. Josef Puchta

Dear Postdocs,

We would like to welcome you to the 6th DKFZ PostDoc Retreat. The retreats were initiated to give the broad spectrum of DKFZ Postdocs a forum to interact, network and present their recent advancements in cutting edge research.

We are looking forward to a very exciting scientific and social program. Besides the scientific presentations we would like to address special issues that every Postdoc has to face. We are pleased to welcome our guest speakers Eva-Maria Gottmann, Nina Cabezas-Wallscheid and Maria Papatriantafyllou. We will witness presentations about entrepreneurship, academic career development and publishing. In addition, Barbara Janssens from the DKFZ Career Service will be available to talk about PostDoc career advice.

We, the PostDoc Network (PDN), hope you enjoy the Retreat.

The scientific and personal diversity of the postdoctoral community encountered at the DKFZ required the establishment of a unifying platform that efficiently represents the interests and needs of postdocs. The PDN is continually aiming to maintain and grow a vibrant postdoctoral experience at the DKFZ. Several subgroups have been established to provide the optimal infrastructure to achieve our goals:

#### **Visibility** • Career Development • Networking

The PDN Committee is meeting on a regular basis every second Thursday at 5.00pm in the seminar room H2.03.068. You could get many personal benefits out of an active participation in the life of the PDN, so don't hesitate to bring in your own ideas, contact us at pdn@dkfz.de and join us!

The PDN wishes you a successful Retreat and hopes to see you at the up-coming PDN events.

Best Regards,

The PDN Team

### The PDN is:

Antje Reuter

Barbara Costa

**Doris Schneller** 

Heiko Weyd

Johannes Werner

Kai Hofmann

Katarina Cuk

Lea Schroeder

Magalie Géraldy

Mike Fletcher

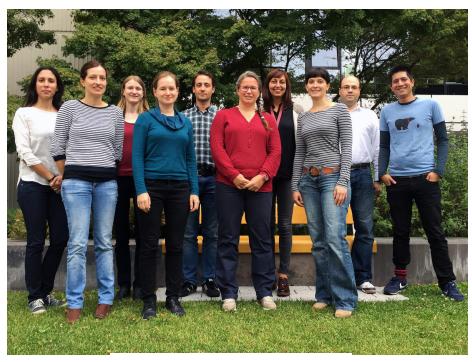
Nádia Correia

Rusian Al-Ali

Stefan Kallenberger

Teodora Ribarska

Ulrike Träger



PDN Committee 2017

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# Program - Monday, 16/10/2017

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10:30 Welcome

#### 11:00 First scientific session

Simona Capponi

Michael Fletcher

Carla Galmozzi

#### 12:00 Lunch

#### 13:00 Session - Entrepreneurship

Eva-Maria Gottmann

#### 15:00 Coffee break / poster session 1

#### 15:45 Second scientific session

Kai Hofmann

Zhiqin Huang

Ranadip Mandal

#### 16:45 Session – Academic Career

Nina Cabezas-Wallscheid

#### 18:00 Dinner

#### 19:30 PostDoc Career Advice

Barbara Janssens

#### 20:30 Open round table discussion

Needs of PostDocs at DKFZ, problems, ideas for improvement...

#### 21:30 Get-together

# **Program - Tuesday, 17/10/2017**

08:00 Breakfast

09:15 Session - Publishing

Maria Papatriantafyllou

11:15 Poster session 2

12:00 Lunch

13:00 Third scientific session

Subhamoy Mandal

Hana Nuskova

Emma Phillips

14:00 Coffee break / poster session 3

14:45 Fourth scientific session

Manuel Rodríguez-Paredes

Devendra Singh

Heiko Weyd

Marc Zuckermann

16:00 Closing remarks, prize ceremony

# **Guest Speaker's Portraits**



## Nina Cabezas-Wallscheid

Dr. Nina Cabezas-Wallscheid studied biotechnology (M.Sc.) at the Autonomous University of Barcelona (Spain) and the University of Parma (Italy).

She earned her Ph.D. on the study of AML1-ETO, a subtype of acute myeloid leukemia (AML). Nina showed the evolution of transcriptional landscapes and the establishment of cancer stem cell hierarchies based on a novel mouse model at the Medical Center of the Johannes Gutenberg University of Mainz (Germany; 2006-2010) under the supervision of Dr. Ernesto Bockamp.

During her Ph.D. Nina also visited, as a guest scientist, the laboratory of Prof. David Scadden at the Harvard Stem Cell Institute in Boston (USA). From 2011 until 2017 she was a postdoctoral fellow in the department of Stem Cells and Cancer under the mentorship of Prof. Andreas Trumpp at the German Cancer Research Center (DKFZ) in Heidelberg (Germany). There, Nina focused her research on the identification of regulatory networks that regulates the adult hematopoietic stem cell (HSC) and multipotent compartment and the investigation of mechanisms involved in maintaining HSC dormancy.

Since May 2017 Nina has been an independent Group Leader at the Max Planck Institute of Immunobiology and Epigenetics in the department of Rudolf Grosschedl.



## **Eva-Maria Gottmann**

Eva-Maria Gottmann is a marketing and communication specialist, connecting communication and design skills with entrepreneurship.

Eva studied Media and Communication Sciences at the universities of Erfurt, Augsburg, and Barcelona. During her stay in Catalonia's capital she decided to turn her theoretical knowledge into practice. Thus she began working as a freelance journalist while finishing her master's thesis.

In 2013 she joined the BioRN Cluster Management as online editor. Since then she has been involved in the Biotech Entrepreneurship activities at Heidelberg University and further business creation programs such as the "Health Axis Europe Accelerator" for start-ups. Furthermore, Eva created and implemented a communication and marketing strategy for the BioMed X Innovation Center.

Since July 2016 she is Business Creation Manager at German EIT Health providing accelerator and education services to EIT Health members and start-ups in the field of biotech, medtech and digital health.



# **Maria Papatriantafyllou**

Maria Papatriantafyllou obtained her PhD at the German Cancer Research Centre, studying the regulation of T-cell responses by the secreted protein Dickkopf-3.

After two years of postdoctoral research on the same topic, she moved to science publishing. From 2011 to 2013 she worked as an Associate Editor on Nature Reviews Immunology and Nature Reviews Molecular Cell Biology.

In 2014, she joined FEBS Letters, handling manuscripts on excitingly diverse areas.

# **Oral Presentations**

## **Oral Presentations Overview**

### First scientific session - Monday, 11:00

Simona Capponi

Michael Fletcher

Carla Galmozzi

#### Second scientific session - Monday 15:45

Kai Hofmann

Zhiqin Huang

Ranadip Mandal

#### Third scientific session - Tuesday 13:00

**Subhamoy Mandal** 

Hana Nuskova

Emma Phillips

#### Fourth scientific session - Tuesday 14:45

Manuel Rodríguez-Paredes

Devendra Singh

Heiko Weyd

Marc Zuckermann



# Simona Capponi

nSR100 is involved in alternative micro-exon splicing of TAF1 mRNA and linked to X-linked Dystonia-Parkinsonism

Simona Capponi<sup>1\*</sup>, Richard van Schaik<sup>2</sup>, Martin Biniossek<sup>3</sup>, Oliver Schilling<sup>3</sup> and Marc Timmers<sup>1</sup>

- 1 Medical Epigenetics, Department of Urology, Medical Center-University of Freiburg, Freiburg, Germany;
- 2 Molecular Cancer Research, University Medical Center Utrecht, Utrecht, The Netherlands;
- 3 Institute of Molecular Medicine and Cell Research, University of Freiburg, Freiburg, Germany;
- \* presenting author



## **Michael Fletcher**

Gene regulatory network analysis identifies potential master regulators of glioblastoma subtypes

Michael Fletcher, Anna Bertoni, Yonghe Wu, Zuguang Gu, Qi Wang, Martje Tönjes, Carl Herrmann, Bernhard Radlwimmer, Peter Lichter



## Carla Galmozzi

Studying the co-translational interplay of chaperones by Selective ribosome profiling

Carla Galmozzi, Kristina Döring, Lena Grave, Bernd Bukau and Günter Kramer

Center for Molecular Biology of Heidelberg University (ZMBH) and German Cancer Research Center (DKFZ), DKFZ-ZMBH Alliance, Im Neuenheimer Feld 282, D-69120 Heidelberg, Germany.



### Kai Hofmann

#### A novel transgenic mouse model for the study of Inclusion Body myositis

Kai Hofmann<sup>1</sup>, Judith Bauer<sup>2</sup>, Monika Wolf <sup>3</sup>, Thomas Blank<sup>4</sup>, Juliane Bremer<sup>5</sup>, Regina Reimann<sup>3</sup>, Renaud Maire<sup>3</sup>, Elisabeth Rushing<sup>3</sup>, Veronika Kana<sup>3</sup>, Marco Prinz<sup>4</sup>, Adriano Aguzzi<sup>3</sup>, Mathias Heikenwälder<sup>1</sup>

- 1 German Cancer Research Center, Department Inflammation and Cancer, Heidelberg, Germany;
- 2 TU München, Department of Virology, Munich, Germany;
- 3 University Hospital, Institute for Neuropathology, Zurich, Switzerland;
- 4 University Hospital Freiburg, Germany;
- 5 Perelman School of Medicine University of Pennsylvania;



## **Zhiqin Huang**

#### A pipeline for neo-epitope prediction in cancer immunotherapy

Zhiqin Huang<sup>1,2</sup>, Zeynep Kosaloglu<sup>1,2</sup>, Iris Kaiser<sup>1,3</sup>, Jutta Funk<sup>1,3</sup>, Rosa Eurich<sup>1,2</sup>, Evgeniya Denisova<sup>4</sup>, Roland Eils<sup>5</sup>, Benedikt Brors<sup>4</sup>, Niels Halama<sup>1,3</sup>, Inka Zoernig<sup>1,2</sup> and Dirk Jaeger<sup>1,2,3</sup>

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- 2 Clinical Cooperation Unit "Applied Tumor Immunity", German Cancer Research Center (DKFZ), Heidelberg, Germany
- 3 Heidelberg University Hospital, Heidelberg, Germany
- 4 Division of Applied Bioinformatics, German Cancer Research Center (DKFZ), Heidelberg, Germany
- 5 Division of Theoretical Bioinformatics, German Cancer Research Center (DKFZ), Heidelberg, Germany



# **Ranadip Mandal**

Systematic Functional Analysis of Mutations and Networks in Cancer (SyNC)

Ranadip Mandal

Applied Functional Genomics (G102)



# **Subhamoy Mandal**

Photoacoustic Imaging: Applications in Pre-clinical Molecular Imaging

**Subhamoy Mandal** 

Division of Medical Physics in Radiology



## **Hana Nuskova**

mTORC1 inhibition affects mitochondrial morphology

Hana Nuskova



# **Emma Phillips**

Fungal extract screening for identification of novel therapeutic agents for glioblastoma: characterisation of an identified compound

Emma Phillips



# **Manuel Rodríguez-Paredes**

# Methylation profiling identifies two subclasses of squamous cell carcinoma related to distinct cell types of origin

Manuel Rodríguez-Paredes<sup>1</sup>, Felix Bormann<sup>1</sup>, Günter Raddatz<sup>1</sup>, Julian Gutekunst<sup>1</sup>, Carlota Lucena-Porcel<sup>2,3</sup>, Florian Köhler<sup>1</sup>, Elisabeth Wurzer<sup>4</sup>, Katrin Schmidt<sup>4</sup>, Joachim Röwert-Huber<sup>5</sup>, Evgeniya Denisova<sup>6</sup>, Lars Feuerbach<sup>6</sup>, Jeongbin Park<sup>7</sup>, Benedikt Brors<sup>6,8,9</sup>, Esther Herpel<sup>2,3</sup>, Ingo Nindl<sup>5</sup>, Thomas G. Hofmann<sup>1</sup>, Marc Winnefeld<sup>4</sup> & Frank Lyko<sup>1</sup>

- 1 Division of Epigenetics, DKFZ-ZMBH Alliance, German Cancer Research Center, Heidelberg, Germany
- 2 Institute of Pathology, Heidelberg University, Heidelberg, Germany
- 3 Tissue Bank of the National Center for Tumor Diseases (NCT), Heidelberg, Germany
- 4 Research & Development, Beiersdorf AG, Hamburg, Germany
- 5 Department of Dermatology, Venereology and Allergy, Charité, University Hospital, Berlin, Germany
- 6 Division of Applied Bioinformatics, German Cancer Research Center (DKFZ), Heidelberg, Germany
- 7 Division of Theoretical Bioinformatics, German Cancer Research Center (DKFZ), Heidelberg, Germany
- 8 National Center for Tumor Diseases (NCT), Heidelberg, Germany
- 9 German Cancer Consortium (DKTK), German Cancer Research Center (DKFZ), Heidelberg, Germany



## **Devendra Singh**

#### STK33 is a novel substrate of ABL1 tyrosine kinase

Devendra Singh\*, Matthias Mann<sup>§</sup>, Stefan Fröhling\*, Claudia Scholl\*

\* DKFZ, Heidelberg § MPI, Martinsried



## **Heiko Weyd**

#### A novel pathway for presentation of antigens derived from apoptotic cells

#### Heiko Weyd



# **Marc Zuckermann**

### **AAV-mediated brain tumor therapy**

Marc Zuckermann<sup>1</sup>, Janina Haar<sup>2</sup>, Stefan M. Pfister<sup>1</sup>, Peter Lichter<sup>3</sup>, Barbara Leuchs<sup>4</sup>, Dirk Grimm<sup>2</sup>, David T.W. Jones<sup>1</sup>

- 1 Division of Pediatric Neurooncology, German Cancer Research Center (DKFZ), Im Neuenheimer Feld 280, Heidelberg 69120, Germany
- 2 Heidelberg University Hospital , Cluster of Excellence CellNetworks, Department of Infectious Diseases, Virology, Heidelberg, Germany.
- 3 Division of Molecular Genetics, German Cancer Research Center (DKFZ), Im Neuenheimer Feld 280, Heidelberg 69120, Germany
- 4 Tumorvirology, German Cancer Research Center, Im Neuenheimer Feld 280, Heidelberg 69120, Germany

# **Poster Presentations**

## **Poster Presentations Overview**

Poster session 1 - Monday, 15:00

Poster session 2 - Tuesday, 11:15

Poster session 3 - Tuesday, 14:00

Please put up your posters prior to Poster session 1

All posters will be on display both days so there will be plenty additional time for discussions!



## **Khalid Abnaof**

Assessing biological effects similarities of compound treatments by integrating information from multiple sources

Khalid Abnaof



## **Natasha Anstee**

#### **Self-renewal of Hematopoietic Stem Cells**

Natasha S Anstee<sup>1,2</sup>, Jude Al-Sabah<sup>2,3</sup>, Julia Knoch<sup>1,2</sup>, Julius Gräsel<sup>1,2</sup>, Congxin Li<sup>4</sup>, Thomas Höfer<sup>4</sup>, Simon F Hass<sup>2,3</sup>, Michael D Milsom<sup>1,2</sup>

- 1 Division of Experimental Hematology, Deutsches Krebsforschungszentrum (DKFZ), Heidelberg
- 2 Heidelberg Institute for Stem Cell Technology and Experimental Medicine (HI-STEM), Heidelberg
- 3 Division of Stem Cells and Cancer, Deutsches Krebsforschungszentrum (DKFZ), Heidelberg
- 4 Division of Theoretical Systems Biology, German Cancer Research Center (DKFZ), Heidelberg



### Mireia Berdiel Acer

Carcinoma-associated fibroblasts in breast cancer: impact on ERBB signaling.

Berdiel-Acer M<sup>1</sup>, Vetter M<sup>2</sup>, Burmester S<sup>1</sup>, Will R<sup>3</sup>, Wiemann S<sup>1</sup>

1 Division Molecular Genome Analysis, DKFZ, Heidelberg. 2. Clinic of Gynecology, Faculty of Medicine, Martin-Luther-University Halle Wittenberg. 3. Genomics and proteomics core facility, DKFZ, Heidelberg



## **Yannick Berker**

#### **Quantitative PET image reconstruction**

Yannick Berker, Medizinische Physik in der Radiologie



# Tanja Bhuiyan

#### Epigenetic and genetic control of core promoter function

Tanja Bhuiyan<sup>1</sup>, Silke Lochs<sup>2</sup>, Marc Timmers<sup>1</sup>

- 1 German Cancer Consortium (DKTK) partner site Freiburg, German Cancer Research Center (DKFZ) and Department of Urology, Medical Center-University of Freiburg
- 2 Molecular Cancer Research, Regenerative Medicine Center and Center for Molecular Medicine, University Medical Center Utrecht



# **Philipp Biegger**

Synthesis of Targeted Multimodal Contrast Agent Conjugates Based on a Modular Design

Dr. Philipp Biegger\*1, Rebekka Haffner1, Prof. Dr. Manfred Wießler1, Dr. Dorde Komljenovic1

1 German Cancer Research Center (DKFZ), Department of Medical Physics in Radiology, INF 280, 69120 Heidelberg, Germany



## Nádia Correia

Identification of genetic, epigenetic and cellular events responsible for distinct clinical outcomes of DNMT3A mutant AMLs

Nádia Correia<sup>1</sup>, Simon Raffel<sup>1</sup>, Corinna Klein<sup>1,2</sup>, Michael A. Rieger<sup>3,6</sup>, Hubert Serve<sup>3,6</sup>, Lars Bullinger<sup>4</sup>, Christian Thiede<sup>5</sup>, Frank Buchholz<sup>5</sup> and Andreas Trumpp<sup>1,2,6</sup>

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- 2 Institute for Stem Cell Technology and Experimental Medicine (HI-STEM), Heidelberg, Germany
- 3 Department of Medicine, Hematology / Oncology, Goethe University Frankfurt, Germany
- 4 Department of Internal transcriptome profiling Medicine III University Hospital of Ulm, Germany
- 5 UniversitätsKrebs Centrum (UCC), Medical Systems Biology Medical Faculty Carl Gustav Carus, TU Dresden, Germany
- 6 German Cancer Consortium, (DKTK)



### **Barbara Costa**

The other side of the coin: CD44 in the tumor microenvironment controls glioma cell migration

Barbara Costa<sup>1</sup>, Jasmin Meckler<sup>1</sup>, Tanja Eisemann<sup>1</sup>, Ingrid Spaan<sup>1</sup>, Giuseppina Pace<sup>2</sup>, Olivier Armant<sup>2</sup>, Veronique Orian-Rousseau<sup>2</sup>, Peter Angel<sup>1</sup>, Heike Peterziel<sup>1</sup>

- 1. Transduction and Growth Control, DKFZ/ZMBH Alliance, Heidelberg, Germany
- 2. Institute of Toxicology and Genetics, KIT, Karlsruhe, Germany



# **Evgeniya Denisova**

Immunological profiling of tumors and identification of determinants for response to cancer immunotherapies

Evgeniya Denisova<sup>1</sup>, Martina Fröhlich<sup>1</sup>, Barbara Hutter<sup>1</sup>, Sebastian Uhrig<sup>1</sup>, Pornpimol Charoentong<sup>2</sup>, Zhiqin Huang<sup>2</sup>, Zeynep Kosaloglu<sup>2</sup>, Niels Halama<sup>2</sup>, Inka Zörnig<sup>2</sup>, Dirk Jäger<sup>2</sup>, Benedikt Brors<sup>1</sup>

- 1 Division of Applied Bioinformatics, DKFZ
- 2 Department of Medical Oncology, NCT



## **Dominic Edelmann**

**Multiple Testing with Side Information for Molecular Data** 

Dominic Edelmann



# **Elisa Espinet**

Transcriptomic landscape of Pancreatic Cancer and normal Epithelial and Stromal cells directly isolated from human samples reveals common and cell-type specific deregulated nodes

Elisa Espinet<sup>1,2</sup>, Zuguang Gu<sup>3,7</sup>, Charles D. Imbusch<sup>4</sup>, Vanessa Vogel<sup>1</sup>, Corinna Klein<sup>1</sup>, Jing Yang<sup>3</sup>, Octavio Espinosa<sup>3</sup>, Nathalia A. Giese<sup>5</sup>, Oliver Strobel<sup>5</sup>, Thilo Hackert<sup>5</sup>, Alexander Muckenhuber<sup>6</sup>, Matthias Schlesner<sup>3</sup>, Benedikt Brors<sup>4</sup>, Marcus Büchler<sup>5</sup>, Roland Eils<sup>3,7,8</sup>, Wilko Weichert<sup>6</sup>, Martin R. Sprick<sup>1,2</sup> and Andreas Trumpp<sup>1,2</sup>

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- 2 Division of Stem Cells and Cancer, DKFZ, Heidelberg, Germany
- 3 Division of Theoretical Bioinformatics, DKFZ, Heidelberg, Germany
- 4 Division of Applied Bioinformatics, DKFZ, Heidelberg, Germany
- 5 Department of General and Visceral Surgery, University Hospital Heidelberg, Im Neuenheimer Feld 110, 69120 Heidelberg, Germany
- 6 Institute of Pathology, University Hospital Heidelberg
- 7 Heidelberg Center for Personalized Oncology (DKFZ-HIPO), Heidelberg
- 8 Department of Bioinformatics and Functional Genomics, Institute for Pharmacy and Molecular Biotechnology (IPMB) and BioQuant, Heidelberg University



## **Azadeh Fahim Golestaneh**

Deciphering the molecular regulators of tumor resistance to VEGF-receptor tyrosine kinase inhibitors via *in-vivo* genome wide RNAi screen

Azadeh Fahim Golestaneh<sup>1</sup>, Maoyun Sun <sup>2</sup>, Christian Schwager<sup>1</sup>, Zili Tang<sup>1,2</sup>, Lili Ma <sup>2</sup>, Philip Hahnfeldt <sup>2</sup>, Mahmoud Moustafa<sup>1,4</sup>, Wilko Weichert<sup>3</sup>, Jürgen Debus<sup>1</sup>, Lynn Hlatky <sup>2</sup> and Amir Abdollahi<sup>1,2</sup>

- 1 German Cancer Consortium, Division of Molecular- and Translational Radiation Oncology, Heidelberg Ion-beam Therapy Center (HIT), Heidelberg Institute of Radiation Oncology, National Center for Tumor Diseases (NCT), Heidelberg University Medical School and German Cancer Research Center (DKFZ), Heidelberg, Germany
- 2 Center of Cancer Systems Biology, Tufts University School of Medicine, Boston, MA, USA
- 3 Institute of Pathology, Technical University of Munich, Munich, Germany
- 4 Department of Clinical Pathology, Faculty of Veterinary Medicine, Suez Canal University, Ismailia, Egypt



## **Omid Fotouhi**

A Genomic and Proteomic Approach to Investigate the Molecular Functions of the Epigenetic Regulator MLL3/KMT2C

Omid Fotouhi<sup>1</sup>, Marc Timmers<sup>1</sup>

1 German Cancer Research Center (DKFZ) and Department of Urology, Medical Center-University of Freiburg



# **Magalie Géraldy**

#### Development of selective histone deacetylase (HDAC10) inhibitors

Magalie N. E. Géraldy<sup>1</sup>\*, Michael Morgen<sup>1</sup>, Peter Sehr<sup>2</sup>, Mona Malz<sup>1</sup>, Nikolas Gunkel<sup>1</sup>, Aubry K. Miller<sup>1</sup>

1 DKFZ - Cancer Drug Discovery, Im Neuenheimer Feld 280, D-69120 Heidelberg 2 EMBL - Chemical Biology Core Facility, Meyerhofstrasse 1, D-69117 Heidelberg



# **Britta Moyo Grebbin**

A clinical biobank of colorectal cancer and stroma cells as a platform for patient-specific responses

Moyo Grebbin<sup>1,2</sup>, Birgit Lehmann<sup>1</sup>, Julia Bollrath<sup>1</sup>, Florian Greten<sup>1</sup>, Henner Farin<sup>1,2</sup>

<sup>1</sup> Georg-Speyer-Haus, Institute for Tumor Biology and Experimental Therapy, Frankfurt am Main, Germany

<sup>2</sup> German Consortioum for Translational Cancer Research (DKTK), German Cancer Research Center (DKFZ), Heidelberg, Germany



# **Sayedmohammad Hasheminasab**

Genomic Analyses of Candidate Pure Cell Populations Using Single Cell Image Guided Semiconductor Technology

Sayedmohammad Hasheminasab



## **Niclas Kneisel**

BCAT1 restricts  $\alpha$ KG levels in AML stem cells leading to IDHmut-like DNA hypermethylation Simon Raffel , Mattia Falcone , Niclas Kneisel, ... ,Bernhard Radlwimmer, Andreas Trumpp

Division of Stem Cells and Cancer, A010 Division of Moluclar Genetics, B060



## **Thorsten Kolb**

Chromothripsis: Induction of clustered DNA double-strand breaks using deep UV

Thorsten Kolb



## **Leila Martins**

On the search for a true lung epithelial stem cell in the adult mouse

Leila Martins, Hanno Glimm, Claudia Scholl

Department of Translational Oncology, National Center for Tumor Diseases (NCT) and German Cancer Research Center (DKFZ)



## **Ana-Matea Mikecin Drazic**

The identification and validation of synthetic lethal interaction partners in mutant DNMT3A-driven acute myeloid leukemia

Ana-Matea Mikecin<sup>1</sup>, Michael Milsom<sup>1</sup>

1 Deutsches Krebsforschungszentrum (DKFZ), Division of Stem Cells and Cancer, Experimental Hematology Group, 69120 Heidelberg, Germany



## Julita Mikulec

Effect of long-term IFN exposure on CD8 T cell functionality

Julita Mikulec<sup>1</sup>, Maike Hofmann<sup>2</sup>, Robert Thimme<sup>2</sup>, Ralf Bartenschlager<sup>1</sup>

- 1 Division of Virus-associated Carcinogenesis, German Cancer Research Center, Heidelberg
- 2 Department of Medicine II, University Hospital Freiburg



## **Daniel Pastor-Flores**

#### Redox modifiers and pH. New insights for Cancer Therapy

Daniel Pastor-Flores<sup>§</sup>, Elisa Espinet\*, Andreas Trumpp\* and Tobias P. Dick<sup>§</sup>

§ Division of Redoxregulation, German Cancer Research Center, \*Division of Stem Cells, German Cancer Research Center.



# Pierluigi Piersimoni

#### Redox modifiers and pH. New insights for Cancer Therapy

- P. Piersimoni<sup>1</sup>, V. A. Bashkirov<sup>2</sup>, C. A. Collins Fekete<sup>3</sup>, B. A. Faddegon<sup>4</sup>, R. P. Johnson<sup>5</sup>, C. E. Ordoñez<sup>6</sup>, J. Ramos Méndez<sup>4</sup>, R. W. Schulte<sup>2</sup>, L. Volz<sup>1, 7</sup>, J. Seco<sup>1, 7</sup>
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- 3 Université Laval, Physics Department, Quebec, Québec, Canada
- 4 University of California San Francisco, Radiation Oncology, San Francisco, California, United States of America
- 5 University of California Santa Cruz, , Institute for Particle Physics, Santa Cruz, California, United States of America
- 6 Northern Illinois University, Center for Research Computing and Data, DeKalb, California, United States of America
- 7 Universität Heidelberg, Physics Department, Heidelberg, Baden-Württemberg, Germany



## **Teodora Ribarska**

TriplexRNA-seq and TriplexDNA-seq- novel methods to enrich triplex-forming RNAs and triplex-targeted DNAs in vivo

Teodora Ribarska<sup>1</sup>, Nevcin Sentürk<sup>1</sup>, Chao-Chung Kuo<sup>2</sup>, Ivan Kosta<sup>2</sup>, Ingrid Grummt<sup>1</sup>

- 1 Molecular Biology of the Cell II, German Cancer Research Center DKFZ, Heidelberg
- 2 Center of Medical Technology (MTZ), Helmholtz Institute for Biomedical Engineering, Aachen

<sup>\*</sup> Division of Stem Cells, German Cancer Research Center.



## **Thales Ribeiro**

Particle therapy and oxidative stress: the effects of metal-based compounds on intracellular redox changes

Thales Ribeiro, Katharina Knott, Luca Tirinato and Joao Seco.

Biomedical Physics in Radiation Oncology, German Cancer Research Center (DKFZ), Heidelberg, Baden-Württemberg, Germany.



# **Angela Riedel**

Sentinel lymph node stroma involvement during breast cancer progression

Angela Riedel<sup>1,2</sup>, Thordur Oskarsson<sup>1,2</sup>

1 Heidelberg Institute for Stem Cell Technology and Experimental Medicine (HI-STEM gGmbH), Heidelberg, Germany 2 Cell Biology and Tumor Biology Program, German Cancer Research Center (DKFZ), Heidelberg, Germany



## **Roman Schefzik**

Identifying differential distributions for single-cell RNA sequencing data comprising biological replicates

Roman Schefzik, Marc Schwering and Bernd Fischer

Computational Genome Biology Group (B210), German Cancer Research Center



## **Doris Schneller**

#### Function of Stromal-derived JUNB in HCC onset and progression

Doris Schneller<sup>1</sup>, Isabella Mayer<sup>1</sup>, Mario Gonzalez García<sup>1</sup>, Jochen Hess<sup>1</sup>, Stephanie Rössler<sup>2</sup>, Kai Breuhahn<sup>2</sup>, Cyrill Géraud<sup>3</sup>, Sergij Goerdt<sup>3</sup>, Marina Schorpp-Kistner<sup>1</sup>, Peter Angel1

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2 INSTITUTE OF PATHOLOGY, HEIDELBERG, 3DEPARTMENT OF DERMATOLOGY, VENEREOLOGY, AND ALLERGY UNIVERSITY, MEDICAL
CENTER AND MEDICAL FACULTY MANNHEIM, MANNHEIM, GERMANY



## Lea Schroeder

# Human papillomavirus as prognostic marker with rising prevalence in neck squamous cell carcinoma from unknown primary

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