7th Winter School of the Collaborative Research Centre TRR81
"Chromatin Changes in Differentiation and Malignancies" Marburg-Giessen-Bad Nauheim-Rotterdam
at the Kleinwalsertal, February 26 – March 3, 2017

| **Sunday 26.2.2017** | 19:15 | Dinner |
| | 20:15 | Ski Rental |

| **Monday 27.2.2017** | 08:00-09:00 | Breakfast |

Chair:	Ruben Boers and Sara Völkel
MORNING SESSION 09:00-11:30	Sjaak Philipsen *Welcome at the seminar room*
	Mingjing Li (PI Braun BN) *Epigenetic regulation of cardiomyocyte proliferation and cardiac regeneration*
	Ilias Boltsis (PIs Grosveld and Gribnau R) *The role of non-coding RNAs and transcription factor networks in X-inactivation*
	Peeyush Sahu (PI Bauer M) *Effects of PRMT6 deletion on H3R2me2a deposition and transcription in NT2/D1 cells*
	Martijn Vos (PIs Grosveld & Delwel R) *Targeting G protein coupled receptor 56 using (ant)agonistic antibodies, a potential therapeutic in acute myeloid leukemia*
	Markus Seibert (PI Schmitz G) *Characterization of histone H2B serine 6 phosphorylation*
	Lize Meert (PI Poot R) *Protein interaction networks of autism chromatin modifiers in human neural stem cells*

| | 12:00-17:00 | Open Discussions |
| | 17:30-18:15 | Dinner |

Chair:	Ilona Vuist and Karim Bouazoune
EVENING SESSION 18:30-21:30	Hegias Mira Bontenbal (PI Gribnau R) *Generation of an X Chromosome Reactivation mouse model*
	Sandra Hake (new PI) *Histone variants in stem cell differentiation and disease*
	Anne Korporaal (PI Philipsen R) *The Klf1 Nan variant affects developmental expression patterns of globin genes*
	Katja Sträßer / Wolfgang Wende (new PI) *Coupling between nuclear mRNP formation and epigenetic marks*
	Aleksandra Turkiewicz (PI Borggrefe G) *Characterization of the RBP-J/SHARP-mediated repression mechanism at Notch target genes*
	Soni Pullamsetti (new PI) *JMJD histone demethylases: Role and regulation in the pathogenesis of Pulmonary Hypertension*

| **Tuesday 28.2.2017** | 08:00-09:00 | Breakfast |

Chair:	Hegias Mira Bontenbal and Parysatis Sachs
MORNING SESSION 09:00-11:30	Valentina Casa (PI Wendt R) *Regulation of the cohesin-loading factor NIPBL: role of the lncRNA NIPBL-AS1 and identification of a distal enhancer element*
	Fan Wu (PI Braun BN) *Tet3 mediated epigenetic signature affects cell identity and remodeling in lung bronchioles*
	Jeffrey Boeren (PI Gribnau R) *Characterization of the Xist promoter protein interactors by CasID*
	Francesca Ferrante (PI Borggrefe G) *HDAC3 is a positive regulator of Notch signalling that acts by stabilizing the cleaved Notch protein*
	Judith Birkhoff (PI Huylebroeck R) *Transcription factor Zeb2 action mechanisms and regulations in embryonic cell fate decisions*
	Karim Bouazoune (PI Brehm M) *Biochemical characterization of the DNA repair protein SHPRH using nucleosome substrates*

| | 12:00-17:00 | Open Discussions |
| | 17:30-18:15 | Dinner |

Tuesday 28.2.2017

Chair:	Laura Brueckner and Markus Seibert
EVENING SESSION 18:30-21:30	Peter Kolb (new PI) *Identifying selective protein ligands in chemical space*
	Ilona Vuist (PI Houtsmuller R) *Effects of UV induced DNA damage on mRNA concentration in single genes*
	Wibke Diederich (new PI) *Computer-based Design and synthesis of Protein Arginine Methyltransferase 4 inhibitors*
	Ayestha Sijm (PI Verrijzer R) *Gene control by USP7/GMPS*
	Debbie van den Berg (new PI) *Migration matters: Transcriptional control of forebrain development by Nipbl and Zfp609*
	PI meeting in the seminar room

Wednesday 1.3.2017   08:00-09:00   Breakfast

Chair:	Andrea Conidi and Aleksandra Turkiewicz
MORNING SESSION 09:00-11:30	Joanna Brühl (PI Brehm M) *Identification of potential chromatin remodeling factor drug targets in Acute Myeloid Leukemia*
	Lennart van der Wal (PIs Demmers and Verrijzer R) *Analyzing changes in ubiquitylation status using quantitative mass spectrometry*
	Ikram Ullah (PI Brehm M) *dMi-2 and RNA, EcR/USP*
	Marti Quevedo (PI Poot R) *A Mediator-associated transcription factor activates transcription in neural stem cells*
	Parysatis Sachs (PI Mermoud M) *Genome-wide mapping of the ATP-dependent chromatin remodeler SMARCAD1 in mouse embryonic stem cells*
	Laura Brueckner (PI Van Steensel A) *Studying the interplay between genome organization and gene regulation by thousands of integrated reporters*

        12:00-17:00   Open Discussions
        17:30-18:15   Dinner

Chair:	Valentina Casa and Peeyush Sahu
EVENING SESSION 18:30-21:30	Ruben Schep (PI Van Steensel A) *What are the effects of chromatin on DNA double strand break repair response?*
	Mehrnaz Ghazvini (PI Gribnau R) *Study of XCI regulation in development in human*
	Jana Haas (PI Schmitz G) *Analysis of HIPK2-mediated chromatin decondensation*
	Esther Sleddens-Linkels (PI Baarends R) *Meiotic checkpoint activation in men with non - obstructive azoospermia*
	Tim Hundertmark (PI Renkawitz-Pohl M) *The role of Plus3 domain proteins in male germ cell development of Drosophila*
	Andrea Conidi (PI Huylebroeck R) *How sweet is Zeb2: O-GlcNAcylation of Zeb2 is necessary for its activity as cell-autonomous E-cadherin (Cdh1) regulator and BMP signalling antagonist*

Thursday 2.3.2017   08:00-09:00   Breakfast

Chair:	Marti Quevedo and Jana Haas
MORNING SESSION 09:00-11:30	Dong Ding (PI Mermoud M) *Study of SMARCAD1 Function in Mouse Embryonic Stem Cells by Proteomics and RNAi*
	Joachim Boers (PI Gribnau R) *MeD-seq, a novel method to detect genome wide DNA methylation - Bioinformatics*
	Ruben Boers (PI Gribnau R) *MeD-seq, a novel method to detect genome wide DNA methylation – Wet lab*
	Sara Völkel (PI Suske M) *Zinc finger independent genome-wide binding of Sp2 to CCAAT box promoters*
	Teresa Robert Finestra (PI Gribnau R) *Single-cell methylation profiling using MeD-seq*
	Sjaak Philipsen *Closing remarks*

        12:00-16:00   Open Discussions
        16:00-17:30   Workshops on Perspectives

        17:30-18:30   Farewell Dinner and events:
        19:00-20:00   Torch-light procession
        20:00-late   Farewell party

Friday 3.3.2017   07:30-08:30   Breakfast and departure (Rotterdam participants)