34th Ernst Klenk Symposium in Molecular Medicine

Epigenetics: Basic principles and clinical applications

October 04 - 06, 2018 / Cologne, Germany

Overview of the Poster Presentation

University of Cologne

UNIKLINIK KÖLN

CMMC CENTER FOR MOLECULAR MEDICINE COLOGNE

Overview of the poster abstracts

	First Author	E-Mail	Affiliation (first affiliation listed)	Poster Title
A-01	**Anton-Garcia, P**	pablo.anton.garcia@mol-med.uni-freiburg.de	Institute of Molecular Medicine and Cell Research, Albert-Ludwig-University Freiburg, DE	Role of SNAIL1 as a transcriptional activator during epithelial to mesenchymal transition
A-02	**Cantone, I**	irenecantone81@gmail.com	MRC London Institute of Medical Sciences, Imperial College School of Medicine, London, UK	Selective human X chromosome reactivation in reprogrammed and somatic cells
A-03	**Despang, A**	despang@molgen.mpg.de	Max Planck Institute for Molecular Genetics, Berlin, DE	TAD structures are dispensable for developmental gene regulation but disruptive when reconfigured
A-04	**Díaz, N**	noelia.diaz@mpi-muenster.mpg.de	Max Planck Institute for Molecular Biomedicine, Muenster, DE	Chromatin conformation analysis of primary patient tissue using a low input Hi-C method
A-05	**Gourisankar, S**	saipg@stanford.edu	Dept. of Chemical Engineering and School of Medicine, University of Stanford, US	Chromosomal engineering by chemical induced proximity and Cas9-mediated DNA recombination
A-06	**Guenther, T**	thomas.guenther@leibniz-hpi.de	Heinrich Pette Institute and Leibniz Institute for Exp. Virology, Hamburg, DE	The role of polycomb repressive complexes during viral latency establishment: A comparative study
A-07	**Hernández-Rodríguez, B**	bhernan@mpi-muenster.mpg.de	Max Planck Institute for Molecular Biomedicine, Muenster, DE	Zebrafish 3D chromatin maps reveal conserved principles of chromatin organisation throughout vertebrates
A-08	**Ing-Simmons, E**	liz.ing-simmons@mpi-muenster.mpg.de	Max Planck Institute for Molecular Biomedicine, Muenster, DE	Control of chromatin conformation in the early Drosophila embryo

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A-09	**Jain, N**	neha.jain@mpi-dortmund.mpg.de	Max Planck Institute of Molecular Physiology, Dortmund, DE	Studies on the RSC-nucleosome complex using genetically encoded Photo-Activatable Cross-Linker Amino Acids
A-10	**Jansz, N**	natasha.jansz@helmholtz-muenchen.de	Walter and Eliza Hall Institute of Medical Research, Parkville, Victoria, AU	Smchd1 regulates long-range chromatin interactions on the inactive X chromosome and at Hox clusters
A-11	**Kalmbach, A**	alexander.kalmbach@uk-essen.de	Institute of Human Genetics and University Hospital Essen, University of Duisburg-Essen, DE	Genome-wide analysis of the nucleosome landscape in individuals with Coffin-Siris Syndrome
A-12	**Kruse, K**	kai.kruse@mpi-muenster.mpg.de	Max Planck Institute for Molecular Biomedicine, Muenster, DE	Transposable element-driven reorganisation of 3D chromatin during early embryonic development
A-13	**Ullah, I**	ikram.ullah@staff.uni-marburg.de	Institute of Molecular Biology and Tumor Research, Philipps-University Marburg, DE	Role of RNA in the recruitment of dMi-2
B-01	**Jabbari, K**	kjabbari@uni-koeln.de	Institute for Genetics, University of Cologne, DE	A compositional phase separation model for chromatin responsiveness
C-01	**Adhikary, T**	adhikary@imt.uni-marburg.de	Center for Tumorbiology and Immunology, Philipps-University Marburg, DE	Regulation of IL12B transcription in cancer and homeostasis
C-02	**Ahmed, S**	saleh.ahmed@imt.uni-marburg.de	Institute of Molecular Biology and Tumor Research (IMT), Philipps-University Marburg, DE	The role of PRMT4 in regulating the activity of E3 SUMO ligase PIAS1
C-03	**Aref, R**	rasha_aref@agr.asu.edu.eg	Dept. of Genetics, Faculty of Agriculture, Ain Shams University, Cairo, EG	In vivo and in vitro novel insights on Cti6 regulatory proteins interaction activity in the yeast Saccharomyces cerevisiae

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C-04	**Baar, T**	till.baar@ uni-koeln.de	Institute of Medical Statistics and Computational Biology IMSB, Univ. of Cologne, DE	Towards in vivo, cell type-specific RNA expression profiling
C-05	**Beyes, S**	sven.beyes@mol-med.uni-freiburg.de	Institute of Molecular Medicine and Cell Research, Faculty of Medicine, University of Freiburg, DE	The proto-oncogene MYB is a directly repressed target gene of the EMT master regulator SNAIL1
C-06	**Bierhoff, H**	holger.bierhoff@ uni-jena.de	Institute of Biochemistry and Biophysics, Friedrich Schiller University Jena, DE	Regulation of Kras promoter activity by a lncRNA-mediated conformation switch
C-07	**Bleckwehl, T**	tbleckwe@ uni-koeln.de	Center for Molecular Medicine Cologne, University of Cologne, DE	Reactivation of the pluripotency expression program during primordial germline specification
C-08	**Bochyńska, A**	abochynska@ ukaachen.de	Dept. of Biochemistry and Molecular Biology, Uniklinik RWTH Aachen, DE	The trithorax protein Ash2l in the control of gene expression
C-09	**Buetepage, M**	mbuetepage@ ukaachen.de	Institute of Biochemistry and Molecular Biology, Uniklinik RWTH Aachen, DE	The role of mono-ADP-ribosylation as a post-translational modification of chromatin
C-10	**Ding, D**	ding@imt.uni-marburg.de	Institute of Molecular Biology and Tumor Research (IMT), Philipps-University Marburg, DE	SMARCAD1 ATPase activity is required to silence endogenous retroviruses in embryonic stem cells
C-11	**El-Brolosy, M**	mohamed.el-brolosy@mpi-bn.mpg.de	Max Planck Institute for Heart and Lung Research, Dept. of Dev. Genetics, Bad Nauheim, DE	Genetic compensation is triggered by mutant mRNA degradation
C-12	**Esmaillie, R**	resmaill@smail.uni-koeln.de	Dept. II of Internal Medicine and Center for Molecular Medicine Cologne, Univ. of Cologne, DE	RNA binding proteins in stress resistance – a screen in C. elegans

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C-13	**Gaubatz, S**	stefan.gaubatz@biozentrum.uni-wuerzburg.de	Theodor Boveri Inst. and Com-prehensive Cancer Center Mainfranken, Univ. of Wuerzburg, DE	The Myb-MuvB complex is required for YAP-dependent transcription of mitotic genes
C-14	**Grossbach, J**	jan.grossbach@uni-koeln.de	CECAD, University of Cologne, DE	Systems genetics integration of protein biosynthesis and cellular signaling networks
C-15	**Herz, M**	michaela.herz@uni-wuerzburg.de	Institute for Hygiene and Microbiology, University of Wuerzburg, DE	DNA-Methylation in the fox tapeworm Echinococcus multilocularis
C-16	**Ignarski, M**	michael.ignarski@uk-koeln.de	Dept. II of Internal Medicine and CMMC, Univ. of Cologne, DE	Hypoxia associated modulation of the RNA-protein interactome in differentiated kidney tubular epithelial cells
C-17	**Jabs, S**	sabrina.jabs@pasteur.fr	Unité des Interactions Bactéries-Cellules, Institut Pasteur, Paris, FR	Gut microbiota controls m6A mRNA modifications in different host tissues
C-18	**Karmakar, S**	subhradip.k@aiims.edu	Dept. of Biochemistry, All India Institute of Medical Sciences, New Delhi, IN	RNA hydroxymethyl cytosine as a novel epitranscriptomic signature associated with Acute Myeloid Leukaemia (AML)
C-19	**Kuehnel, T**	theresa.kuehnel@uni-due.de	Inst. of Human Genetics, Univ. Hospital Essen, Univ. of Duisburg-Essen, DE	Development of an in vitro model for induction of artificial imprints
C-20	**Lungu, C**	cristiana.lungu@izi.uni-stuttgart.de	Dept. of Bio-chemistry, Inst. of Biochemistry & Tech. Biochemistry, Univ. of Stuttgart, DE	Modular fluorescence complementation sensors for live cell detection of epigenetic signals at endogenous genomic sites
C-21	**Menges, J**	julia.menges@uni-due.de	Institute of Human Genetics, University Hospital Essen, University of Duisburg-Essen, DE	Transcriptional read-through from the upstream promoter is not required for DNA methylation at CpG85 of RB1

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C-22	**Said, H M**	harun.m.said@ gmail.com	Dept. of Molecular Medicine, Dokuz Eylul, University of Izmir, TR	Transcriptional regulation of NDRG1 gene expression under different environmental conditions including Hypoxia
C-23	**Spinck, M**	martin.spinck@mpi-dortmund.mpg.de	Max Planck Institute of Molecular Physiology Dortmund, DE	Directed evolution of lysine deacetylases
C-24	**Stoyanova, E**	elena.stoyanova@ babraham.ac.uk	Babraham Institute, University of Cambridge,	Deciphering a metabolism-sensitive molecular readout of histone crotonylation
C-25	**Wu, E**	wu@mpi-cbg.de	Max Planck Institute of Molecular Cell Biology and Genetics, Dresden, DE	Towards a molecular understanding of competition for DNA binding in transcription
C-26	**Wu, F**	Fan.Wu@ mpi-bn.mpg.de	Max Planck Institute for Heart and Lung Research, Bad Nauheim, DE	Deciphering the role of Tet3 mediated DNA hydroxymethylation (5hmC) in lung airway remodelling
D-01	**Anokhina, M**	maria.anokhina@ uk-koeln.de	Institute of Pathology, University Hospital of Cologne, DE	Role of the different LSD1 isoforms in regulation of transcription and alternative splicing of cancer related genes
D-02	**Bansal, A**	bansal.aakanksha @gmail.com	Institute for Genome Stability in Aging and Disease, Medical Faculty, Univ. of Cologne, DE	The role of Trichostatin A in DNA damage response induced-functional plasticity of macrophages
D-03	**Chlamydas, S**	chlamydas@ activemotif.com	Active Motif, Inc. Carlsbad CA, US	A multi-omics toolbox to define the epigenetic profile in cancer disease areas
D-04	**Dalvi, P**	priya.dalvi@ uk-koeln.de	Institute of Pathology, University Hospital of Cologne, DE	Inhibition of LSD1 using HCI-2509 attenuates tumor cell proliferation by regulating PLK1

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D-05	**Dalvi, P**	priya.dalvi@uk-koeln.de	Institute of Pathology, University Hospital of Cologne, DE	Novel role of LSD1 in post-transcriptional regulation
D-06	**Diesch, J**	jdiesch@carrerasresearch.org	Josep Carreras Leukaemia Research Institute, Campus ICO - Germans Trias i Pujol, Badalona, ES	Chromatin regulators as response-predicting biomarkers of azacitidine therapy in MDS patients
D-07	**Grimm, C**	christina.grimm@uk-koeln.de	Laboratory for Epigenetic and Tumorgenetics, University Hospital Cologne, DE	Epigenetic alterations in CLL patients with poor prognosis and SF3B1 mutations
D-08	**Hamdan, F**	fhamdan@gwdg.de	Dept. of General, Visceral and Pediatric Surgery, University Medical Center Göttingen, DE	The role of BET inhibition in chemoresistance and resensitization in pancreatic ductal adenocarcinoma
D-09	**Hussong, M**	michelle.hussong@uk-koeln.de	Lab. for Epigenetics and Tumor Genetics, CCG, Uni. Hospital of Cologne, DE	Epigenetic mechanisms of pericentromeric satellite-RNA expression and therapy resistance in cancer
D-10	**Kakhki, M P**	Majid.Pahlevan.Kakhki@ki.se	Karolinksa Institute, Dept. of Clinical Neuroscience, Karolinska University Hospital, Stockholm, SE	Epigenetic studies may open promising insights into Multiple Sclerosis progression
D-11	**Menouni, A**	aziza.menouni@kuleuven.be	Cluster of Competence "Environment and Health", Moulay Ismail Uni., Meknes, MA	Oxidative stress and alterations in DNA methylation linked to pesticide exposure among women of childbearing age living in Meknes (Morocco)
D-12	**Najas, S**	sonia.najas@helmholtz-muenchen.de	Institute of Stem Cell Research, Helmholtz Center Munich and Biomedical Center, Munich, DE	Role of DNA methylation in direct reprogramming of astrocytes to neurons
D-13	**Schmalohr, C**	corinna.schmalohr@uni-koeln.de	Center for Molecular Medicine Cologne (CMMC), University of Cologne, DE	Detecting epistasis using random forest

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D-14	**Schmiel, M**	Marcel.Schmiel@uk-koeln.de	Institute for Pathology, Univ. Hospital of Cologne, and CMMC, Cologne, DE	Metabolic changes upon inhibition of the Lysine-Specific-Demethylase-1 (LSD1) in hepatocellular carcinoma
D-15	**Siebert, S**	susann.siebert@uk-koeln.de	Lab. for Translational Epigenetics and Tumor Genetics, University Hospital Cologne, DE	Genetic and epigenetic alterations in the intestine of Lynch syndrome patients and Msh2-/- mice caused by mismatch repair-deficiency and single hit radiation
D-16	**Wang, L**	Lingyu.wang@uk-koeln.de	Institute for Pathology, Univ. Hospital of Cologne, and CMMC, DE	Epigenetic modifications by the Histone Demethylase LSD1 in hepatic stellate cells contribute to liver fibrosis
D-17	**Wang, L**	Lingyu.wang@uk-koeln.de	Institute for Pathology, Univ. Hospital of Cologne, and CMMC, DE	The impact of the epigenetic writer LSD1 in the cell cycle control and mitochondrial function in liver hepatocellular carcinoma
E-01	**Arjmand-Abbassi, Y**	yasaman.arjmand-abbassi@stud.uni-due.de	Inst. for Human Genetics, Univ. Hospital of Essen, Univ. Duisburg-Essen, DE	Impact of BAP1 inactivation on the class-specific DNA methylation pattern in uveal melanoma
E-02	**Asif, M**	Maria-bukhari@hotmail.com	Cologne Center for Genomics (CCG), University of Cologne, DE	Loss-of-function mutations in nuclear pore complex proteins cause steroid resistant nephrotic syndrome associated with microcephaly
E-03	**Bartusel, M**	mbartuse@uni-koeln.de	Center for Molecular Medicine Cologne, University of Cologne, DE	Molecular and functional characterization of a novel locus associated with orofacial clefting
E-04	**Beygo, J**	jasmin.beygo@uni-due.de	Institute for Human Genetics, University Hospital of Essen, University Duisburg-Essen, DE	Transcription is the key – further evidence for the necessity of KCNQ1 transcription through the ICR2 in the maternal germline for imprint establishment in humans
E-05	**Chauvistré, H**	heike.chauvistre@uk-essen.de	Dept. of Dermatology, Univ. Hospital Essen, West German Cancer Center, Univ. Duisburg-Essen, DE	Overcoming tumor plasticity by chemically enforced phenotype homogenization as a new therapeutic strategy in melanoma

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E-06	**Cherepkova, E V**	india06@mail.ru	Dept. of Exp. & Clinical Neuro-science, Budgetary State-Research Inst. of Physiology and Basic Medicine, RU	The polymorphism of dopamine receptor D4 (DRD4) and dopamine transporter (DAT) genes in the men with antisocial behavior and mixed martial arts fighters
E-07	**Cirak, S**	Sebahattin.Cirak@uk-koeln.de	CMMC, Dept. of Pediatrics, Univ. Hospital of Cologne, and Center for Rare Diseases, Cologne, DE	Genetic defects in ADP-Ribosylation lead to mendelian neurodegenerative disease
E-08	**Gründl, M**	marco.gruendl@biozentrum.uni-wuerzburg.de	Theodor Boveri Institute, Biocenter, University of Würzburg, DE	The Myb-MuvB complex and the Hippo pathway – crosstalk during heart development
E-09	**Gupta, S**	sgupta@actrec.gov.in	Cancer Research Institute, Tata Memorial Centre, Kharghar, Navi Mumbai, IN	Histone H3 variants and their importance in changing global epi-genomic landscape in cancer
E-10	**Gupta, R**	drritugupta@gmail.com	All India Institute of Medical Sciences (AIIMS), Laboratory Oncology, New Delhi, IN	Association of epigenetic alteration of Myosin Light Chain Kinase (MYLK) with aggressive clinical course in chronic lymphocytic leukemia
E-11	**Iqbal, M**	miqbal1@smail.uni-koeln.de	Institute of Biochemistry I, Medical Faculty, University of Cologne, DE	CENPJ frameshift mutation causes altered spindle polarity and centrosome biogenesis in primary microcephaly
E-12	**Kargapolova, Y**	yulia.kargapolova@uk-koeln.de	Center for Molecular Medicine Cologne, University of Cologne, DE	A mutated CHD6 SLIDE domain links deregulation of DNA damage responses and autophagy in a rare premature ageing syndrome
E-13	**Laugsch, M**	mlaugsch@uni-koeln.de	Center for Molecular Medicine Cologne, University of Cologne, DE	Modelling the pathological long-range regulatory effects of structural variation in the neural crest with patient-specific induced pluripotent stem CCIls

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E-14	**Liefke, R**	robert.liefke@imt.uni-marburg.de	Institute of Molecular Biology and Tumor Research (IMT), Philipps-University Marburg, DE	Enhancer-driven transcriptional regulation is a potential key determinant for human visceral and subcutaneous adipocytes
E-15	**Lotke, R**	lotke.rishikesh@mh-hannover.de	Institut für Virologie, Medizinische Hochschule Hannover, DE	Role of BRD/BET proteins in mediating rhadinoviral LANA-chromatin association
E-16	**Moawia, A**	amoawia@smail.uni-koeln.de	Cologne Centre for Genomics, University of Cologne, DE	Functional exploration of a midbody protein KIF14 as the novel cause for primary microcephaly
E-17	**Nguyen, H N**	hong.nguyen@uk-koeln.de	Molecular Cell Biology, Institute I for Anatomy, University Hospital Cologne, DE	The chromatin remodelling Tip60 complex is involved in the maintenance of adult midgut precursors in the *Drosophila* midgut
E-18	**Nikopoulou, C**	cnikopoulou@age.mpg.de	Max Planck Institute for Biology of Ageing, Cologne, DE	Molecular signatures of transcriptional regulation that control the ageing of mouse liver
E-19	**Placek, K**	kplacek@uni-bonn.de	Systems Biology Center, Division of Intramural Research, NHLBI, NIH, Bethesda, US	MLL4 histone methyltransferase modulates Foxp3 induction and regulatory T cell development by remotely shaping enhancer landscape in CD4+ T cells
E-20	**Pospiech, J**	johannes.pospiech@uni-ulm.de	Institute for Molecular Medicine, Stem Cells and Aging, University of Ulm, DE	Epigenetic changes in aged and rejuvenated hematopoietic stem cells
E-21	**Pouikli, A**	Andromachi.Pouikli@age.mpg.de	Max Planck Institute for Biology of Ageing, Cologne, DE	Integrating metabolic and epigenetic regulation in bone-marrow mesenchymal stem cells (BM-MSCs)
E-22	**Richter, A**	antje.m.richter@gen.bio.uni-giessen.de	Institute for Genetics, University of Giessen, DE	RASSF10: A novel cancer biomarker functioning through ASPP2 (apoptosis-stimulating protein of p53) signalling

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E-23	**Rovira, Q**	quirze.rovira-castella@mpi-muenster.mpg.de	Max Planck Institute for Molecular Biomedicine, Muenster, DE	The role of transposable elements during zebrafish early development
E-24	**Shannan, B**	batool.shannan@uk-essen.de	Dept. of Dermatology, Univ. Hospital Essen, West German Cancer Center, Univ. Duisburg-Essen, DE	Sequence-dependent cross-resistance of combined radiotherapy plus $BRAF^{V600E}$-inhibition in melanoma
E-25	**Vetrivel, S**	Sharmilee.vetrivel@helmholtz-muenchen.de	Institute of Dev. Genetics, Helmholtz Center Munich, DE	Identification of novel developmental regulatory functions of core histone variant H3.2
E-26	**Wang, S**	siyao1005@gmail.com	Institute for Genome Stability in Ageing and Disease, CECAD Research Center, Cologne, DE	The role of H3K4me2 on DNA damage response in C. elegans
E-27	**Waseem, S S**	sseemawa@smail.uni-koeln.de	Cologne Centre for Genomics (CCG), University of Cologne, DE	Emerging role of genetic modifiers in enhancing the severity of CENPJ mutation
E-28	**Wei, X**	weixiaoyan@zedat.fu-berlin.de	Institute for Chemistry and Biochemistry, Freie Universität Berlin, DE	Neurofibromin I (Nf1) regulates muscle metabolic reprogramming through muscle stem cell epigenetic modification
E-29	**Weng, H L**	honglei.weng@medma.uni-heidelberg.de	University of Heidelberg, Dept. of Medicine II, Medical Faculty Mannheim, DE	Transcription factor TRIM33 and FoxH1 control liver progenitor cell-mediated liver regeneration in liver cirrhosis
E-30	**Zemter, S**	maren.godmann@uni-jena.de	Dept. of Biochemistry Institute of Bio-chemistry and Biophysics, Friedrich-Schiller-University Jena, DE	Disturbing the interplay of a novel zinc-finger trans-cription factor with histone modifiers in spermatogonia results in premature male germ cell aging

Information “Poster Presentation”

Poster size
DIN A0 upright format (84 cm wide and 118 cm high).

Poster board / mounting and poster display
Please refer to your abstract in the poster abstract book for the poster board number (PBN) assigned to you. Please use the board with the same number displayed in the upper right corner of the poster board. At the registration desk you will receive the location of the poster sessions as well as push pins and tape upon arrival at the symposium.

Poster Sessions
The poster presentation will take place:

Thursday, Oct. 04, 2018, from 6.00 - 8.30 p.m.
during the Welcome Get-Together as follows:

6.15 - 7.15 p.m.: Poster Presentation A, B and E
7.15 - 8.15 p.m.: Poster Presentation C and D
8.15 - 9.30 p.m.: on-going discussions

Friday, Oct. 05, 2018 from 12.30 - 2.00 p.m.
during the lunch break at the venue

In order to share the novel and exciting ongoing state-of-the-art research with all participants and thereby promoting scientific interaction, the poster should be displayed during the entire duration of the symposium. The Symposium ends on Saturday, Oct. 06, 2018 at about 3.15 p.m.

Poster Awards
The Poster Evaluation Committee (PEC) will judge posters on the scientific content with a focus on originality, potential impact/importance of the topic, novelty and relevance. The PEC decided to award 250,- Euro to the first author of the three most outstanding poster contributions. The *CMMC Klenk Symposium Poster Awards* will be presented by Michal-Ruth Schweiger and Reinhard Büttner (Chairs of PEC) on Friday, Oct. 05, 2018 at 3.50 p.m.

Saturday, Oct. 06, 2018 during session IV -2 of the Klenk Symposium 2018
Awardees of the poster prizes are invited to give a short presentation (10 min.)

Further Information
If you have further questions, please contact Dr. Debora Grosskopf-Kroiher
(debora.grosskopf-kroiher@uni-koeln.de).

Welcome to Cologne