

Publications



Lutz Menzel

Gloger M*, Menzel L*, *et al.* Lymphoma Angiogenesis Is Orchestrated by Noncanonical Signaling Pathways.
Cancer Research (March 2020)

Scholz F, *et al.* The transcription factor C/EBP β orchestrates dendritic cell maturation and functionality under homeostatic and malignant conditions.
Proc Natl Acad Sci U S A. (Oct 2020)

Menzel L., *et al.*, Angiogenesis in Lymph Nodes is a Critical Regulator of Immune Response and Lymphoma Growth.
Frontiers Immunology (Dec 2020)



Inmaculada Martinez-Reyes

Martinez-Reyes I, Chandel N S, Mitochondrial TCA Cycle metabolites control physiology and disease.
Nature communications (Jan 2020)

Martinez-Reyes I, *et al.* Mitochondrial ubiquinol oxidation is necessary for tumor growth.
Nature. (Sept 2020)



Christian Lips

Lips C, *et al.* Who with whom: functional coordination of E2 enzymes by RING E3 ligases during poly-ubiquitylation
EMBO J. (Oct 2020)



Marieta Caganova

Jumaa H, *et al.* Immunoglobulin expression in the endoplasmic reticulum shapes the metabolic fitness of B lymphocytes.
J.Life Sci Alliance (April 2020)



Duncan Miller

Miller DC, *et al.* Simple workflow and comparison of media for hPSC-cardiomyocyte cryopreservation and recovery.
Current Protocols in Stem Cell Biology (Sept 2020)

Brandão KO, *et al.*, Isogenic Sets of hiPSC-CMs Harboring Distinct KCNH2 Mutations Differ Functionally and in Susceptibility to Drug-Induced Arrhythmias
Stem Cell Reports (Nov 2020)



Ali Rahjouei

Delgado-Benito V *et al.* PDGFA-associated protein 1 protects mature B lymphocytes from stress-induced cell death and promotes antibody gene diversification.
Journal of Experimental Medicine (Oct 2020)



Leo Guignard

Guignard L, *et al.* Contact area-dependent cell communication and the morphological invariance of ascidian embryogenesis.
Science (July 2020)

Veenvliet J., *et al.* Mouse embryonic stem cells self-organize into trunk-like structures with neural tube and somites
Science (November 2020)



Tobias Opialla and Matthias Pietzke

Opialla T, Kempa S, Pietzke M, Towards a More Reliable Identification of Isomeric Metabolites Using Pattern Guided Retention Validation.
Metabolites (November 2020)



Ulrike Löber

Alquezar-Planas D E, *et al.* DNA Sonication Inverse PCR for Genome Scale Analysis of Uncharacterized Flanking Sequences
Methods in Ecology and Evolution (September 2020)

Willers M, *et al.* S100A8 and S100A9 are Important for Postnatal Development of Gut Microbiota and Immune System in Mice and Infants
Gastroenterology (December 2020)

Bartolomaeus T U P, *et al.* Quantifying Technical Confounders in Microbiome Studies.
Cardiovascular Research (May 2020)



Hendrik Bartolomaeus

Bartolomaeus H, *et al.* Blood pressure changes correlate with short-chain fatty acid production potential shifts under a synbiotic intervention
Cardiovascular Research (June 2020)



Friederike Klempin

Kronenberg G, Klempin F, Laying out the Evidence for the Persistence of Neurogenesis in the Adult Human Hippocampus
Eur Arch Psychiatry Clin Neurosci (June 2020)

Marques B L, *et al.* Neurobiology of Glycine Transporters: From Molecules to Behavior
Neurosci Biobehav Rev (July 2020)

Petermann M, *et al.* Alterations in BDNF Protein Concentrations in the Hippocampus do not Explain the Pro-neurogenic Effect of Citalopram on Adult Neurogenesis
Pharmacopsychiatry (November 2020)



Wolfgang Kopp

Kopp W, *et al.* Deep learning for genomics using Janggu
Nat Commun (July 2020)



Jason Millward

Millward JM, *et al.* Transient enlargement of brain ventricles during relapsing-remitting multiple sclerosis and experimental autoimmune encephalomyelitis
JCI Insight. (November 2020)

Delgado PR, *et al.* B₁ inhomogeneity correction of RARE MRI with transceive surface radiofrequency probes
Magn Reson Med. (November 2020)

Wang S*, Millward JM*, *et al.* MR Elastography-Based Assessment of Matrix Remodeling at Lesion Sites Associated With Clinical Severity in a Model of Multiple Sclerosis.
Front Neurol. (January 2020)

Millward JM, *et al.* Preparation of Ex Vivo Rodent Phantoms for Developing, Testing, and Training MR Imaging of the Kidney and Other Organs
Book chapter in 'Preclinical MRI of the Kidney: Methods and Protocols'



Bastiaan Spanjaard

Girelli G, *et al.* GPSeq reveals the radial organization of chromatin in the cell nucleus
Nature Biotechnology (May 2020)



Henning Reimann

Reimann HM and Niendorf T, The (Un)Conscious Mouse as a Model for Human Brain Functions: Key Principles of Anesthesia and Their Impact on Translational Neuroimaging
Front. Syst. Neurosci. (May 2020)



Kristin Kräker

Kräker K, *et al.* Statins Reverse Postpartum Cardiovascular Dysfunction in a Rat Model of Preeclampsia
Hypertension (January 2020)

Kräker K, *et al.* Speckle Tracking Echocardiography: New Ways of Translational Approaches in Preeclampsia to Detect Cardiovascular Dysfunction
Int J Mol Sci. (February 2020)

Kräker K, *et al.* Effects of empagliflozin and target-organ damage in a novel rodent model of heart failure induced by combined hypertension and diabetes.
Sci Rep. (Augustus 2020)



Petya Jordan

Georgieva PB, *et al.* Long-lived tumor-associated macrophages in glioma
Neuro-Oncology Advances (Sept 2020)



Marina Kolesnichenko

Mikuda N, *et al.* Deficiency in I κ B α in the intestinal epithelium leads to spontaneous inflammation and mediates apoptosis in the gut
J. Pathol. (March 2020)

Insa Feinkohl

Feinkohl I, *et al.* Plasma leptin, but not adiponectin, is associated with cognitive impairment in older adults.
Psychoneuroendocrinology (October 2020)

Feinkohl I, *et al.* Plasma Amyloid Concentration in Alzheimer's Disease: Performance of a High-Throughput Amyloid Assay in Distinguishing Alzheimer's Disease Cases from Controls.
J Alzheimers Dis. (April 2020)

Feinkohl I*, Borchers F*, *et al.* Stability of neuropsychological test performance in older adults serving as normative controls for a study on postoperative cognitive dysfunction
BMC Res Notes. (February 2020)

Mathias Kuhring

Kuhring M, *et al.* TaxIt: An Iterative Computational Pipeline for Untargeted Strain-Level Identification Using MS/MS Spectra from Pathogenic Single-Organism Samples
J. Proteome Res. (May 2020)

Kuhring M, *et al.* Concepts and Software Package for Efficient Quality Control in Targeted Metabolomics Studies: MeTaQuaC
Anal. Chem. (June 2020)

The ASPIRE program is halfway through its second round. Though the pandemic prevented in person workshops, it gave us the opportunity to test online formats and have participants from partner institutes.



Virtual leadership and management skills workshop 2020

The participants from the first round of the program have found employment in industry, consulting, science management, science communication as well as applying for group leader positions.

Benjamin Sünkel, a former postdoc of Prof. Thomas Sommer and participant in the ASPIRE program 2019. Currently working as Senior Scientist Quality Control at Celonic Group had this to say:

“The ASPIRE program offered me valuable training opportunities to shape my profile to finally reach my career goal of switching to the pharmaceutical industry. The program provided me with lots of insights into the industrial working environment, which made the application process and eventually the switch from academia to industry much easier. Thus, I can only recommend joining the ASPIRE program to reach your career goal”.

Carina Fürst, a former postdoc of Prof. Gary Lewin

“I was a participant in the ASPIRE program during my final year as a Postdoc at the MDC. For me, the best aspect of the program clearly was my personal mentor. I have a wonderful mentor who works in the area I was interested in from the start: management consulting. Having someone by my side whom I can ask all kind of questions with regard to professionally changing fields – from simple questions like what to wear during an interview to more complicated ones such as differences between company cultures – was such a big plus. After almost a year, we are still talking once a month and our initially professional relationship has developed into a friendship”.

Inmaculada Martinez Reyes, current postdoc of Prof. Thomas Blankenstein

“The ASPIRE Program was an excellent opportunity to connect with other postdocs at the MDC and to broaden my network within the Institute. As an international postdoc, it also helped me obtain a good idea of how the German Academic system works. Highly recommended!”

Outlook 2021

Applications for the third round of the program will start in February 2021, so watch your inboxes for an email from us. For more information about the program, please visit our website.

Check out our Website.



Postdoc Day 2020

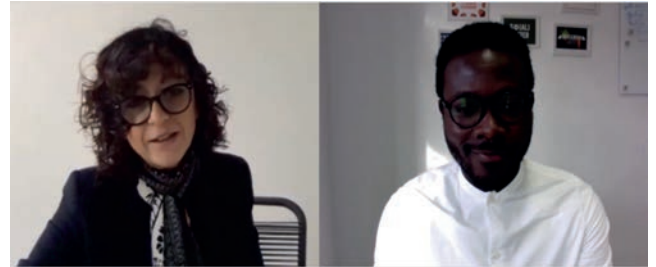
In 2020 the organizers from the Postdoc Association of the Max Delbrück Center for Molecular Medicine (MDC) and the Leibniz- Forschungsinstitut für Molekulare Pharmakologie (FMP) welcomed 188 postdocs and PhD researchers to the first Virtual Berlin Postdoc Day.

Our keynote speaker was Prof. Emmanuelle Charpentier, director of the Max Planck Unit for the Science of Pathogens, Berlin, and laureate of the Nobel Prize in Chemistry 2020.

The virtual event that took place on November 13th, 2020 was attended by researchers from the MDC, the FMP, Humboldt University, Max Planck Institute for Molecular Genetics, Charité, BIH, TU Berlin and University of Potsdam.

The PDD20 also included, next to 10 talks from Postdocs, an excellent virtual chalk talk training from Matteo Cassese, a poster session and an escape room at the end.

We thank our sponsors Bayer, NEB and Thorlabs for their generous donations.



Q&A session:
Prof. Emmanuelle Charpentier and Dr. Jean-Yves Tano

Winners

Best talk



1st prize:

Domenico Azarnia Tehran
(FMP)

The Alzheimer risk factor CALM tunes synaptic plasticity by subtype-selective sorting of glutamate receptors



2nd prize:

Anne Merks (MDC)

Vangl2 couples changes in nuclear mechanics to muscle development



3rd prize:

Léo Guignard (MDC)

On the morphological invariance of ascidian Embryogenesis

Best poster



Juliane Glaser (MPIMG)

Expression of an endogenous retrovirus in the developing mouse limb drives severe malformation.



Marijn Kuijpers (FMP)

Neuronal autophagy regulates presynaptic neurotransmission by controlling the axonal endoplasmic reticulum



Álvaro Fernández Ochoa
(BIH)

The MSTARs concept: Multimodal clinical mass Spectrometry to TArget treatment



Izabela Kowalczyk (MDC)

Integrity of the stem cell niche in the developing brain – mechanisms shaping the

Organisers

The MDC+FMP PD Association:

Miguel Arbesú
Agata Witkowska
Gillian Leigh Dornan
Clarissa Eibl
Guus Heynen
Giovanna D. Ielacqua
Jeremy Morgan
Doreen Roosen

Postdoc Office:
Jean-Yves Tano

Join the
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Learn more
about the
Berlin
Postdoc Day:



Outlook 2021

The next Berlin Postdoc Day will take place on November 4th, 2021. It will be incorporated into the Berlin Science Week. We are looking forward to offer more workshops, invite interesting guests, and welcome even more postdocs from Berlin and beyond. Join us!

Events & Career Center Platform

Chalk Talks

This summer the FMP+MDC PostDoc Association started a new initiative to support networking and getting feedback on research ideas from fellow postdocs as well as junior group leaders. Up to now, there were two outdoor events where group leaders **Martin Lehmann** and **Johannes Broichhagen** presented their research path and discussed details of their scientific carrier. Next events are planned in 2021.

If you are a postdoc and would like to get feedback on your research plans or ideas, or to practice chalk talk before your interviews please get in touch with your FMP + MDC Postdoc Association.

Pizza Lunches

In this series of talks, professionals from both industry and academia share their work experiences. In 2020, three of such talks took place. All of them elicited much interest among the postdocs. Below is the overview of the speakers and topics:

Dr. Agnieszka Rybak-Wolf

Group leader of the MDC organoid platform

Agnieszka gave a talk on her exciting work on human brain organoids and how she makes use of them as an in vitro model for studying neurological disorders. In addition, she shared her career pathway with the participants.

Dr. Jan Ache

Group leader at the University of Würzburg

Jan discussed his recent transition from a postdoc position to group leader, the challenges that he faced.

Dr. Ravindran Kumaran

Neuroscience Research Area team at Abcam in Cambridge

Ravindran gave an overview about his role and the projects he is involved in at Abcam, such as the development of novel antibodies. In addition, he talked about his career transition from his postdoctoral work in academia to his current position as the research area lead in industry.

Career Center Platform

In December 2020, the Postdoc Office launched the **interactive online MDC Career Center Platform** aiming to connect you to your colleagues, collaboration partners and MDC alumni.

The platform features a forum with the possibility to create and join public or private discussion groups based on your research questions or career interests. The network will also provide the possibility to quickly connect with other members through private messages.

With the help of an interactive map and an internal search engine, MDC Career Center Platform members will be able to find each other, connect and strengthen their network. This includes the possibility to reach out to people locally or to organize virtual meetings.

The live feed section will enable you to share useful information and research-related news from all over the world and, thanks to the calendar of events page that will be regularly updated, you will never miss an important conference, symposium, or online event. In the job opportunities section, you can find current job offers shared by the members of the MDC Career Center Platform.

Outlook 2021 Industry Winter Series

Through our ASPIRE program and discussion with postdocs, we have learned that a career in a pharmaceutical company is of high interest to the postdoc community at the MDC.

Our industry winter Series will feature speakers from different branches of the pharmaceutical industry and will give the participants an opportunity to hear about different job options as well as ask questions about the transition process.

20 January

Angeli Möller

VP Head of Global Data Assets, Pharma Digital Transformation & IT, Bayer / Roche

17 February

Christian Regenrecht

CEO of ASC Oncology/Cell Phenomics

31 March

Christiane Alexander

Director, Business Development & Client Management Europe bei CTI Clinical Trial and Consulting Services

21 April

Robert Berger

Head of Laboratory Quality Control at Bayer Bitterfeld

Want to become part of the MDC Career Center Platform community? Please register here:.



Thank you!



The MDC Postdoc Office would like to thank Dariya Afanasyeva for her excellent work during her one year in the office.

The MDC Postdoc Office would like to thank all the Postdoc Association members (Agata, Dorien, Gillian, Giovanna, Miguel, Jeremy) and in particular Guus Heynen and Clarissa Eibl for their engagement in the PDA.

To Guus and Clarissa who will soon start new adventures, we wish them good luck in their future endeavors.



Postdoc Office (From left to right: Jean-Yves Tano, Rose Burden, Sandra Krull)

To everyone else, best wishes for 2021

Impressum
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