

# Postdoc@MDC 2021



274  
Postdocs



47% women  
53% men

57%  
coming from  
abroad

57  
nations

## 2021 POSTDOC GRANTS



**Lydia Dyck**

Marie Curie Fellowship



**Jara Joedicke**

Helmholtz Enterprise Fellowship  
163,354€



**Kristin Kräker**

DZHK Postdoc Start-up  
80.000€ - 1year



**Hao Li**

EMBO Fellowship



**Warren Winick-Ng**

DFG Neurocure  
Collaboration 79,044€



**Duncan Miller**

EMBO Core Facility Fellowship  
1250€



**Eduardo Silva  
Ramos**

German Topper Family HD  
Fellowship  
200.000€ - 3 yrs



**Sebastian Torke**

Oppenheim Research Prize  
50.000€  
Neurowind Junior Prize  
5.000€



**Inmaculada  
Martinez-Reyes**

BSIO Mini Lab Award  
12.000€

# POSTDOC PROGRAM - ASPIRE

"The ASPIRE program and the general support from the postdoc office really helped me a lot - from working out what I want to do, to going through the application process (and knowing I'm not the only one finding it all challenging!). So I have to say a big thank you to you for all of your work on this and I really hope the MDC will continue to support the program going forward!"



**Alison McGarvey**

Advanced Bioinformatics  
Data Scientist BenevolentAI



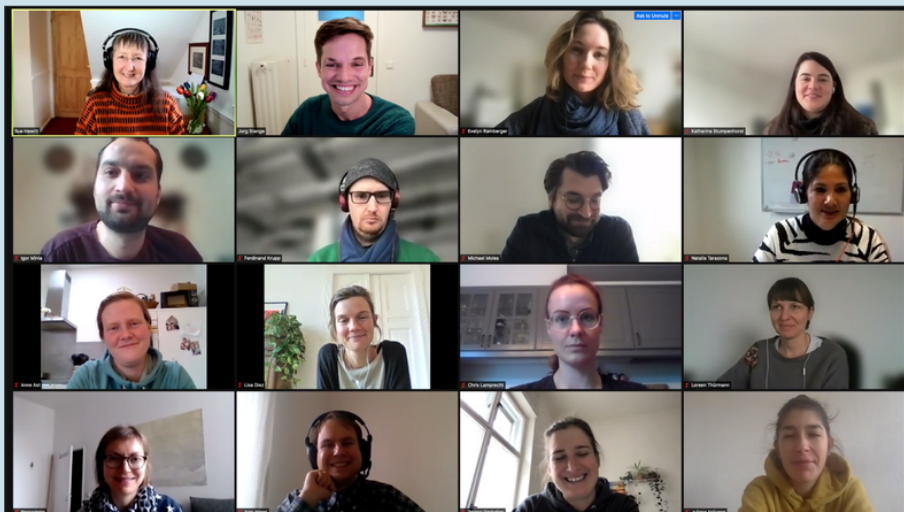
## Participants from 2021-2022

- 12 Academic Track
- 14 Industry/Entrepreneurship
- 4 Science Management/Communication



## Outlook 2022:

**Current round ends in June**  
**ASPIRE will be offered Biennially**  
**Applications in January 2023**



# PUBLICATIONS

Several postdocs were successful in publishing this year. Many of them had more than one publication, only one of them is displayed here.



**Aleix Arnau Soler**

Rare variant analysis in eczema identifies exonic variants in DUSP1, NOTCH4 and SLC9A4.

Grosche, S., et al. (2021). Nature Communications



**Simona Bianco**

7 Publications & 4 Preprints  
Comparison of the Hi-C, GAM and SPRITE methods using polymer models of chromatin.  
Fiorillo, L., et al. (2021). Nature Methods



**Mario Bunse**

CXCR5 CAR-T cells simultaneously target B cell non-Hodgkin's lymphoma and tumor-supportive follicular T helper cells.

Bunse, M., et al. (2021). Nature Communications



**Lydia Dyck**

2 Publications,  
Distinct metabolic programs established in the thymus control effector functions of  $\gamma\delta$  T cell subsets in tumor microenvironments.

Lopes N., et al. (2021). Nature Immunology



**Helena Escobar Fernandez**

Base editing repairs an SGCA mutation in human primary muscle stem cells

Escobar H., et al. (2021). JCI Insights



**Insa Feinkohl**

**Habilitation in "Molekulare Epidemiologie"**

Contribution of IQ in young adulthood to the associations of education and occupation with cognitive ability in older age

Feinkohl, I., et al. (2021). BMC Geriatrics



**Florian Herse**

Lipid Metabolite Biomarkers in Cardiovascular Disease: Discovery and Biomechanism Translation from Human Studies.

Mcgranaghan, P., et al. (2021). Metabolites

7 Publications  
Kidney Injury Caused by Preeclamptic Pregnancy Recovers Postpartum in a Transgenic Rat Model.

Kedziora, SM., et al. (2021). Int. J. Mol. Sci.

# PUBLICATIONS



**Victor Jarquin Diaz**

Phylogeography and population differentiation in *Hepatozoon canis* (Apicomplexa: Hepatozoidae) reveal expansion and gene flow in world populations. Vásquez-Aguilar, A., et al. (2021). *Parasites Vectors*



**Kristin Kräker**

5 Publications  
Circulating Maternal sFLT1 (Soluble fms-Like Tyrosine Kinase-1) Is Sufficient to Impair Spiral Arterial Remodeling in a Preeclampsia Mouse Model. Kräker, K., et al. (2021). *Hypertension*



**Ines Lahmann**

5 Publications  
Met and Cxcr4 cooperate to protect skeletal muscle stem cells against inflammation-induced damage during regeneration. Lahmann, I., et al. (2021). *Elife*



**Ulrike Löber**

6 Publications  
Fasting alters the gut microbiome reducing blood pressure and body weight in metabolic syndrome patients. Maifeld, A., et al. (2021). *Nature Communication*



**Lajos Marko**

11 Publications (2 last authorships)  
Quantifying technical confounders in microbiome studies. Bartolomaeus, TUP., et al. (2021). *Cardiovas. Res.*



**Inmaculada Martinez Reyes**

Cancer metabolism: looking forward. Martinez-Reyes, I., et al. (2021). *Nat. Rev. Cancer*



**Florian Massip**

2 Publications (1 last authorship)  
Identical sequences found in distant genomes reveal frequent horizontal transfer across the bacterial domain. Sheinman, M., et al. (2021). *Elife*



**Jason Millward**

8 Publications & 3 Book Chapters  
Reliable kidney size determination by magnetic resonance imaging in pathophysiological settings. Gladysz, T., et al. (2021). *Acta Physiol. (Oxf)*

# PUBLICATIONS



**Sara Moazzen**

Diet quality indices and gastrointestinal cancer risk: results from the Lifelines study  
Moazzen, S., et al. (2021). Eur. J. Nutr.



**Mariona Pinart**

2 Publications  
A Federated Individual-Level Analysis of Cross-Sectional Data from Adolescents and Adults in 8 European Studies.  
Pinart, M., et al. (2021). J. Nutr.



**Tobias Pohl**

Microglia react to partner loss in a sex- and brain site-specific manner in prairie voles.  
Pohl, T., et al. (2021). Brain, Behavior, and Immunity

**Michael Radke**

Therapeutic inhibition of RBM20 improves diastolic function in a murine heart failure model and human engineered heart tissue.  
Radke, IM, et al. (2021). Sci. Transl. Med.



**Evelyn Ramberger**

2 Publications  
A Universal Peptide Matrix Interactomics Approach to Disclose Motif-Dependent Protein Binding.  
Ramberger, E., et al. (2021). Mol. Cell Proteomics



**Franziska Rother**

Last authorship  
Kpna6 deficiency causes infertility in male mice by disrupting spermatogenesis  
Liu, N., et al. (2021). Development



**Jorge Ruiz Orera**

3 Publications  
A trans locus causes a ribosomopathy in hypertrophic hearts that affects mRNA translation in a protein length-dependent fashion.  
Ruiz-Orera, J., et al. (2021). Genome Biology



**Christine Römer**

Viruses and Endogenous Retroviruses as Roots for Neuroinflammation and Neurodegenerative Diseases  
Römer, C. (2021). Frontiers in Neuroscience

# PUBLICATIONS



**Maria Pilar Sanchez Bailón**

Arginine methylation and ubiquitylation crosstalk controls DNA end-resection and homologous recombination repair.  
Sanchez-Bailon, MP., et al. (2021). Nat. Commun



**Carolina Schwedhelm**

Using food network analysis to understand meal patterns in pregnant women with high and low diet quality.  
Schwedhelm, C., et al. (2021). Int. J. Behav. Nutr. Phys.



**Warren Winick-Ng**

Cell-type specialization is encoded by specific chromatin topologies.  
Winick-Ng, W., et al. (2021). Nature

# POSTDOC DAY 2021



# OUTLOOK 2021



# POSTDOC REPRESENTATIVES



Photo: Jean-Yves Tano

The MDC Postdoc Office would like to thank all the Postdoc Association members. To Jeremy who will soon start new adventures, we wish good luck in his future endeavors.

MDC: Christian Feregrino, Giovanna Illelucua, Dörte Lodka, Nele Warmke.  
FMP: Miguel Árbesu, Gillian Dornan, Jeremy Morgan, Agata Witkowska  
**Thank you for your devoted work!**

**The MDC PDA is looking for new members. Contact: [pda@mdc-berlin.de](mailto:pda@mdc-berlin.de)**



Special Thanks to Dr. Sandra Krull and Dr. Rose Burden who left the MDC in 2021.

To everyone else, best wishes for 2022.