

## Dr. Ilgiz Mufazalov

\*04.02.1984

Group Leader

Institute for Molecular Medicine  
Universitätsmedizin der Johannes Gutenberg-Universität Mainz  
D-55131 Mainz, Langenbeckstr. 1, Geb. 308A  
Tel: +49-6131-17 9245  
[ilgiz.mufazalov@uni-mainz.de](mailto:ilgiz.mufazalov@uni-mainz.de)



## Education/Akademischer Werdegang

- 2006-2009 Ph.D. studies, Faculty of Bioengineering and Bioinformatics, Lomonosov Moscow State University in cooperation with Engelhardt Institute of Molecular Biology, Moscow, Russia. Degree awarded: Ph.D., Molecular Biology, December 2011.
- 2001-2006 Bachelor and Master studies, Department of Embryology, Faculty of Biology, Lomonosov Moscow State University, Moscow, Russia. Degree awarded: M.Sc. (Diploma with honors degree), Physiology, June 2006.

## Research experience/Beruflicher Werdegang

- since 2020 Group Leader, Institute for Molecular Medicine, University Medical Center of the JG University of Mainz, Germany. Lab Head: Prof. Dr. A. Waisman
- 2018-2020 Postdoc, Diabetes Center, University of California San Francisco (UCSF), USA. Lab Head: Prof. Dr. J.A. Bluestone
- 2010-2018 Postdoc, Institute for Molecular Medicine, University Medical Center of the JG University of Mainz, Germany. Lab Head: Prof. Dr. A. Waisman

## Supervision of students

- since 2012 Supervision and co-supervision of 3 Bachelor, 2 Master, 1 Medical and 2 PhD students

## Selected Publications/Publikationen (Auswahl)

Regen T, Isaac S, Amorim A, Núñez NG, Hauptmann J, Shanmugavadivu A, Klein M, Sankowski R, **Mufazalov IA**, Yogev N, Huppert J, Wanke F, Witting M, Grill A, Gálvez EJC, Nikolaev A, Blanfeld M, Prinz I, Schmitt-Kopplin P, Strowig T, Reinhardt C, Prinz M, Bopp T, Becher B, Ubeda C and Waisman A. IL-17 controls central nervous system autoimmunity through the intestinal microbiome. **Science Immunology** 2021, 6(56):eaaz6563.

Lee CJ, Mehdizadeh S, Smith J, Young A, **Mufazalov IA**, Mowery CT, Daud A and Bluestone AJ. Regulatory T cell control of systemic immunity and immunotherapy response in liver metastasis. **Science Immunology** 2020, 5(52):eaba0759.

**Mufazalov IA**<sup>#</sup>, Andruszewski D, Schelmbauer C, Heink S, Blanfeld M, Masri J, Tang Y, Schuler R, Eich C, Wunderlich TF, Karbach SH, Bluestone JA, Korn T and Waisman A.

Cutting Edge: IL-6-driven immune dysregulation is strictly dependent on IL-6R  $\alpha$ -chain expression. **Journal of Immunology** 2020, 204(4): 747-751. # - corresponding author

Dmitrieva-Posocco O, Dzutsev A, Posocco DF, Hou V, Yuan W, Thovarai V, **Mufazalov IA**, Gunzer M, Shilovskiy IP, Khaitov MR, Trinchieri G, Waisman A and Grivennikov SI. Cell-Type-Specific Responses to Interleukin-1 Control Microbial Invasion and Tumor-Elicited Inflammation in Colorectal Cancer. **Immunity** 2019, 50(1):166-180.e7.

Atrekhany KSN\*, **Mufazalov IA\***, Dunst J, Kuchmiy A, Gogoleva VS, Andruszewski D, Drutskaya MS, Faustman DL, Schwabenland M, Prinz M, Kruglov AA, Waisman A and Nedospasov SA. Intrinsic TNFR2 signaling in T regulatory cells provides protection in CNS autoimmunity. **Proc Natl Acad Sci USA** 2018, 115(51):13051-13056. \*co-first authorship

Schlüter T, Schelmbauer C, Karram K and **Mufazalov IA**<sup>#</sup>. Regulation of IL-1 signaling by the decoy receptor IL-1R2. **Journal of Molecular Medicine** 2018, 96(10):983-992 (Review article). # - corresponding author

**Mufazalov IA**<sup>#</sup>, Kuschmann J, Andruszewski D, Masri J, Gabriel LA, Adams P, Reissig S, Hövelmeyer N and Waisman A<sup>#</sup>. Balanced Bcl-3 expression in murine CD4<sup>+</sup> T cells is required for generation of encephalitogenic Th17 cells. **European Journal of Immunology** 2017, 47(8):1335-1341. # - corresponding author

**Mufazalov IA**<sup>#</sup>, Schelmbauer C, Regen T, Kuschmann J, Wanke F, Gabriel LA, Hauptmann J, Müller W, Pinteaux E, Kurschus FC and Waisman A<sup>#</sup>. IL-1 signaling is critical for expansion but not generation of autoreactive GM-CSF<sup>+</sup> Th17 cells. **The EMBO journal** 2017, 36: p102-115. # - corresponding author

**Mufazalov IA**<sup>#</sup>, Regen T, Schelmbauer C, Kuschmann J, Muratova AM, Nikolaev A, Müller W, Pinteaux E and Waisman A<sup>#</sup>. Generation of a Novel T Cell Specific Interleukin-1 Receptor Type 1 Conditional Knock Out Mouse Reveals Intrinsic Defects in Survival, Expansion and Cytokine Production of CD4 T Cells. **PLOS One** 2016, 11: e0161505. # - corresponding author

**Mufazalov IA**<sup>#</sup> and Waisman A. Isolation of Central Nervous System (CNS) infiltrating cells. **Methods in Molecular Biology** 2016, 1304: p73-79 (Book chapter). # - corresponding author

For the full publication list please refer to ORCID ID: 0000-0001-9332-0131