

Dr. Ilgiz Mufazalov

*04.02.1984

Group Leader

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Education

- 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

- 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

Grants and fellowships

- 2021 Research Grant: provided by Deutsche Forschungsgemeinschaft (DFG). Duration: 36 months. Role: Principal Investigator.
- 2017 Research Grant (Stufe1): provided by Intramural Research Funding of the UMC JG University of Mainz. Duration: 12 months. Role: Principal Investigator.
- 2012 Travel Grant: provided by EFIS-IL to attend the European Congress of Immunology (ECI 2012), Glasgow, Scotland.
- 2011 Postdoctoral Fellowship: provided by German Academic Exchange Service (DAAD) to perform research at the JG University of Mainz. Duration: 10 months
- 2009 Travel Grant: provided by EFIS-IL to perform internship research at the JG University of Mainz. Duration: 3 months.

Supervision of students

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

Referee tasks

since 2016 Ad hoc reviewer for European Journal of Immunology, Journal of Molecular Medicine, PLOS One, Journal of Neuroinflammation, International Immunopharmacology, Frontiers in Immunology

Selected Publications

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[#], 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 α -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.

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

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

Mufazalov IA[#], Regen T, Schelmbauer C, Kuschmann J, Muratova AM, Nikolaev A, Muller W, Pinteaux E and Waisman A[#]. 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[#] 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