

Name Mir-Farzin Mashreghi
Date of birth: 10.09.1977
Place of birth: Teheran, Iran
Nationality: German
Family status: In relationship, 3 children (born 2007, 2013 and 2019)
Position at the DRFZ: **Group leader** "Therapeutic Gene regulation"
Scientific Head Regine von Ramin
 Laboratory for Molecular Rheumatology



Scientific Career

Since 2020 **Group Leader** of the joint DRFZ/BIH Center for Regenerative Therapies (B-CRT) "Single-Cell-Laboratory for Advanced Cellular Therapies"
 Since 2018 **Scientific Head** "Next Generation Sequencing", Leader of the Laboratory of Molecular Rheumatology "Regine von Ramin Labor" at the DRFZ.
 Since 2016 **Group Leader** "Therapeutic Gene Regulation", Programme Area III: Regenerative Rheumatology at the DRFZ Berlin.
 2007 –2016 **Research Associate** at the Cell Biology department (Head: Prof. Dr. Andreas Radbruch) at the DRFZ Berlin.

Education

2003 –2007 PhD thesis at the Charité Universitätsmedizin Berlin, Institute of Medical Immunology, Supervisors: Prof. Dr. H.-D. Volk / Prof. Dr. P.-M. Kloetzel; "Functional analysis of the transcription factor STAT3 regulated by the induction of the cytoprotective enzyme heme oxygenase-1", magna cum laude
 2002 –2003 Diploma thesis at the Charité Universitätsmedizin Berlin, Institute of Medical Immunology, Supervisor, Prof. Dr. H.-D. Volk; "Strategies for the diagnosis of subclinical and clinical acute rejection episodes in renal transplantation"
 1998 –2003 University studies at the Freie Universität Berlin, Department of Biology, Pharmacy und Chemistry, Field: Biochemistry diploma, Subjects: Biochemistry, Biophysics, Immunology, Biology, Organic Chemistry, Physical Chemistry and Physics. Mark: Excellent

Research stay abroad

2006 Jagiellonian University, Kraków/Poland, Department of Medical Biotechnology, Faculty of Biochemistry, Biophysics and Biotechnology Jagiellonian University. Supervisor: Józef Dulak, PhD, DSc, Assoc. Prof. "Isolation of bone marrow derived dendritic cells from HO-1 knockout mice and analysis of their maturation behavior after LPS stimulation"

Boards

- Study Group Coordinator of EFIS-IL-Study Group "Non-coding RNA and epigenetic regulation in immune cells"

Memberships

- Deutsche Gesellschaft für Immunologie (DGFI)
- Frontiers of Immunology, Review Editor

Awards

2011 Wolfgang Schulze Award 2011, „Therapeutic use of microRNAs in rheumatology“.

Teaching activities

2018- ongoing	Lecturer, Charité-Molecular Medicine
2012 - ongoing	Problem-based-Learning (PBL)-Teacher at the Charité
2011 - 2015	Max-Hirsch Lecturer at the Charité

Selected Publications

1. Witkowski M, Tizian C, ..., Radbruch A, **Mashreghi MF***, Diefenbach A*. Untimely TGF β responses in COVID-19 limit antiviral functions of NK cells. **Nature**. **2021** Dec;600(7888):295-301. doi: 10.1038/s41586-021-04142-6. Epub 2021 Oct 25. PMID: 34695836. ***equal senior authorship**
2. Ferreira-Gomes M, ..., Radbruch A, **Mashreghi MF**. SARS-CoV-2 in severe COVID-19 induces a TGF- β -dominated chronic immune response that does not target itself. **Nat Commun**. **2021** Mar 30;12(1):1961. doi: 10.1038/s41467-021-22210-3. PMID: 33785765; PMCID: PMC8010106.
3. Maschmeyer P, ..., Kallinich T, **Mashreghi MF**. Antigen-driven PD-1+TOX+BHLHE40+ and PD-1+TOX+EOMES+ T lymphocytes regulate juvenile idiopathic arthritis in situ. **Eur J Immunol**. **2021** Apr;51(4):915-929. doi: 10.1002/eji.202048797. Epub 2021 Feb 2. PMID: 33296081.
4. Ostendorf L, ..., **Mashreghi MF***, Hiepe F, Alexander T. Targeting CD38 with Daratumumab in Refractory Systemic Lupus Erythematosus. **N Engl J Med**. 2020 Sep 17;383(12):1149-1155. doi: 10.1056/NEJMoa2023325. PMID: 32937047. ***special correspondence for single cell transcriptomics**
5. Riedel R, ..., **Mashreghi MF***, Radbruch A*. Discrete populations of isotype-switched memory B lymphocytes are maintained in murine spleen and bone marrow. **Nature Communications**, **2020**. doi: <https://doi.org/10.1101/825224>. ***equal senior authorship and correspondence**
6. Maschmeyer P, ..., Radbruch A, **Mashreghi MF**. Selective targeting of pro-inflammatory Th1 cells by microRNA-148a-specific antagomirs in vivo. **J Autoimmun**. **2018** May;89:41-52. doi: 10.1016/j.jaut.2017.11.005
7. Addo RK, ..., **Mashreghi MF**. Single-Cell transcriptomes of murine Bone Marrow Stromal Cells Reveal Niche-Associated Heterogeneity. **Eur J Immunol**. **2019** May **31**. doi: **10.1002/eji.201848053**.
8. Bardua M, ..., **Mashreghi MF**. MicroRNA-31 Reduces the Motility of Proinflammatory T Helper 1 Lymphocytes. **Front. Immunol**. **06 December 2018**;9(2813). doi: 10.3389/fimmu.2018.02813.
9. Haftmann C, ..., **Mashreghi MF**. miR-148a is upregulated by Twist1 and T-bet and promotes Th1-cell survival by regulating the proapoptotic gene Bim. **Eur J Immunol**. **2015** Apr;45(4):1192-205.
10. Stittrich AB, ..., **Mashreghi MF**. The microRNA miR-182 is induced by IL-2 and promotes clonal expansion of activated helper T lymphocytes. **Nat Immunol**. **2010** Nov;11(11):1057- 62. doi: 10.1038/ni.1945. Epub 2010 Oct 10.

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