

Prof. Joachim L. Schultze, MD

Life and Medical Sciences Institute (LIMES)



Rheinische Friedrich-Wilhelms-Universität Bonn

Life and Medical Sciences Institute (LIMES),
Genomics & Immunoregulation, Director

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Research Expertise

Professor Schultze's current central expertise is at the inter-phase of immunoregulation and genomics, with a focus on transcriptional and epigenetic control of cell activation and immunoregulation, particularly in macrophages and monocytes.

Education / Training

University of Freiburg, Medicine Fellow, 1992 - 1993
University of Tübingen, Medicine, MD, 1991
University of Tübingen, Medicine, State examination, 1991

Appointments / Positions Held

2007 - present W3 Professorship,
Genomics & Immunoregulation, University of Bonn
2002 - 2007 C3 Professorship, Tumor Immunology, University of Cologne
1997 - 2002 Instructor in Medicine, Adult Oncology,
Dana-Farber Cancer Institute, MA, USA
1996 - 1997 Instructor in Medicine, Hematologic Malignancies,
Dana-Farber Cancer Institute, MA, USA
1995 - 1996 Research Associate, Hematology, Dana-Farber
Cancer Institute, MA, USA
1993 - 1995 Research Fellow, Hematology, Dana-Farber
Cancer Institute, MA, USA

Honors / Awards

2015 - present Founding Director of the Platform for Genomics and Epigenomics at the University of Bonn and the DZNE
2012 - present Vice Dean for Research, Faculty for Mathematics and Natural Sciences, University of Bonn
2010 Patent: A method for lung cancer early detection and prognosis. Zander T, Schultze JL, Wolf J, Staratschek-Jox A, Debey-Pascher S, Eggle D, Boffetta P, Linseisen J.
2009 Patent: Anticancer Agent. Hoch M, Schultze JL, Loer B.
2009 Patent: Novel Marker Genes for regulatory T cells from human blood. Schultze JL, Beyer MD, Warner N, Hingorani R.
2002 Sofja-Kovalevskaja Award of the Alexander von Humboldt-Foundation
2000 Senior Investigator Award of the Multiple Myeloma Research Foundation
1999 Translational Research Award of the Leukemia & Lymphoma Society
1998 Special Fellowship Award of the Leukemia & Lymphoma

Society

1997 Fellowship Award of the Lymphoma Research Foundation of America
1997 Travel Award Annual Meeting of the American Society of Hematology
1997 Leukemia Clinical Research Award
(Deutsche Gesellschaft für Hämatologie und Onkologie)

10 Most Relevant Publications for Prof. Joachim L. Schultze

1. Beyer M, Abdullah Z, Chemnitz JM, Maisel D, Sander J, Lehmann C, Thabet Y, Shinde PV, Schmidleithner L, Köhne M, Trebicka J, Schierwagen R, Hofmann A, Popov A, Lang KS, Oxenius A, Buch T, Kurts C, Heikenwälder M, Fätkenheuer G, Lang PA, Hartmann P, Knolle PA, **Schultze JL**. TNF impairs CD4+ T-cell mediated immune control in chronic viral infection. *Nat Immunol*. 2016 Mar 7. [Epub ahead of print]
2. Schmidt SV, Krebs W, Ulas T, Xue J, Baßler K, Günther P, Hardt A-L, Schultze H, Sander J, Klee K, Theis H, Kraut M, Beyer M, **Schultze JL**. The transcriptional regulator network of human inflammatory macrophages is defined by open chromatin. *Cell Res*. 2016 Jan 5.
3. Ginhoux F, **Schultze JL**, Murray PJ, Ochando J, Biswas SK. New insights into the multidimensional concept of macrophage ontogeny, activation and function. *Nat Immunol*. 2015 Dec 17;17(1):34-40. All authors contributed equally
4. **Schultze JL**. Teaching 'big data' analysis to young immunologists. *Nat Immunol*. 2015 Aug 19;16(9):902-5.
5. Murray PJ, Allen JE, Biswas SK, Fisher EA, Gilroy DW, Goerdt S, Gordon S, Hamilton JA, Ivashkiv LB, Lawrence T, Locati M, Mantovani A, Martinez FO, Mege JL, Mosser DM, Natoli G, Saeji JP, **Schultze JL**, Shirey KA, Sica A, Suttles J, Udalova I, van Ginderachter JA, Vogel SN, Wynn TA. Macrophage activation and polarization: nomenclature and experimental guidelines. *Immunity*. 2014; 41(1):14-20 authors in alphabetical order except for P. Murray
6. Xue J, Schmidt SV, Sander J, Draffehn A, Krebs W, Quester I, De Nardo D, Gohel TD, Emde M, Schmidleithner L, Ganesan H, Nino-Castro A, Mallmann MR, Labzin L, Theis H, Kraut M, Beyer M, Latz E, Freeman TC, Ulas T, **Schultze JL**. Transcriptome-based network analysis reveals a spectrum model of human macrophage activation. *Immunity*. 2014; 40(2):274-88
7. De Nardo D, Labzin LI, Kono H, Seki R, Schmidt SV, Beyer M, Xu D, Zimmer S, Lahrmann C, Schildberg FA, Vogelhuber J, Kraut M, Ulas T, Kerksiek A, Krebs W, Bode N, Grebe A, Fitzgerald ML, Hernandez NJ, Williams BR, Knolle P, Kneilling M, Röcken M, Lütjohann D, Wright SD, **Schultze JL***, Latz E*. High-density lipoprotein mediates anti-inflammatory reprogramming of macrophages via the transcriptional regulator ATF3. *Nat Immunol*. 2014; 15(2):152-60 *Shared last author
8. Beyer M, Thabet Y, Müller RU, Sadlon T, Classen S, Lahl K, Basu S, Zhou X, Bailey-Bucktrout SL, Krebs W, Schönfeld EA, Böttcher J, Golovina T, Mayer CT, Hofmann A, Sommer D, Debey-Pascher S, Endl E, Limmer A, Hippen KL, Blazar BR, Balderas R, Quast T, Waha A, Mayer G, Famulok M, Knolle PA, Wickenhauser C, Kolanus W, Schermer B, Bluestone JA, Barry SC, Sparwasser T, Riley JL, **Schultze JL**. Repression of the genome organizer SATB1 in regulatory T cells is required for suppressive function and inhibition of effector differentiation. *Nat Immunol*. 2011; 12(9):898-907
9. Becker T, Loch G, Beyer M, Zinke I, Aschenbrenner AC, Carrera P, Inhester T, **Schultze JL**, Hoch M. FOXO-dependent regulation of innate immune homeostasis. *Nature*. 2010; 463(7279):369-73
10. Trojan A*, **Schultze JL***, Witzens M, Vonderheide RH, Ladetto M, Donovan JW, Gribben JG. Immunoglobulin framework-derived peptides function as cytotoxic T-cell epitopes commonly expressed in B-cell malignancies. *Nat Med*. 2000; 6(6):667-72

*Shared first author