Axel Roers, Prof. Dr. med.

Phone: +49 (0)351-458-6500
E-mail: axel.roers@tu-dresden.de

Academic qualifications

2006	Habilitation: Dermatology, University of Cologne, mentor: Prof. T. Krieg
1994	Doctorate: Dr. med., Albert-Ludwigs University Freiburg, supervisor: Prof. O. Haller
1999-2004	Clinical training, Department of Dermatology, University of Cologne, board exam dermatology
1987-1994	Medical school, Albert-Ludwigs University Freiburg and University College Dublin, state examination

Postgraduate professional career

2015 - present	Director Experimental Center, Medical Faculty, TU Dresden
2008 - present	Professor and Chair of Immunology, Director Institute of Immunology, Medical Faculty, TU Dresden
2006 - 2008	Senior physician, Department of Dermatology, University of Cologne
1994 - 1999	Postdoctoral fellow, Institute for Pathology and Institute for Genetics, University of Cologne with Prof. Martin-Leo Hansmann and Prof. Klaus Rajewsky

A.Roers Selected Publications

Hiller B., Hoppe A., Haase C., Hiller C., Schubert N., Müller W., Reijns M.A.M., Jackson A.P., Kunkel T.A., Wenzel J., Behrendt R., **Roers A.** Ribonucleotide excision repair is essential to prevent squamous cell carcinoma of the skin. ***Cancer Res.*** 2018 in press

Ghouse SM, Polikarpova A, Muhandes L, Dudeck J, Tantcheva-Poór I, Hartmann K, Lesche M, Dahl A, Eming S, Müller W, Behrendt R, **Roers A**. Although Abundant in Tumor Tissue, Mast Cells Have No Effect on Immunological Micro-milieu or Growth of HPV-Induced or Transplanted Tumors. ***Cell Rep***. 2018; 22:27-35.

Schoedel K. B., Morcos M. N., Zerjatke T., Roeder I., Grinenko T., Voehringer D., Gothert J.R., Waskow C., **Roers A.**, Gerbaulet, A. (2016) The bulk of the hematopoietic stem cell population is dispensable for murine steady-state and stress hematopoiesis. ***Blood*** 128, 2285-2296

Roers A., Hiller B., Hornung V. (2016) Recognition of Endogenous Nucleic Acids by the Innate Immune System. ***Immunity*** 44, 739-75

Peschke K., Weitzmann A., Heger K., Behrendt R., Schubert N., Scholten J., Voehringer D., Hartmann K., Dudeck A., Schmidt-Supprian M., **Roers A**. (2014) IkappaB kinase 2 is essential for IgE-induced mast cell de novo cytokine production but not for degranulation. ***Cell Rep.*** 8, 1300-1307

Behrendt R., Schumann T., Gerbaulet A., Nguyen L. A., Schubert N., Alexopoulou D., Berka U., Lienenklaus S., Peschke K., Gibbert K., Wittmann S., Lindemann D., Weiss S., Dahl A., Naumann R., Dittmer U., Kim B., Mueller W., Gramberg T., **Roers A**. (2013) Mouse SAMHD1 has antiretroviral activity and suppresses a spontaneous cell-intrinsic antiviral response. ***Cell Rep.*** 4, 689-696

Hiller B., Achleitner M., Glage S., Naumann R., Behrendt R., **Roers A**. (2012) Mammalian RNase H2 removes ribonucleotides from DNA to maintain genome integrity. ***J. Exp. Med.*** 209, 1419-1426

Dudeck A., Dudeck J., Scholten J., Petzold A., Surianarayanan S., Kohler A., Peschke K., Vohringer D., Waskow C., Krieg T., Muller W., Waisman A., Hartmann K. Gunzer M., **Roers, A.** (2011) Mast cells are key promoters of contact allergy that mediate the adjuvant effects of haptens. ***Immunity*** 34, 973-984

Roers A, Siewe L, Strittmatter E, Deckert M, Schlüter D, Stenzel W, Gruber AD, Krieg T, Rajewsky K, Müller W. T cell-specific inactivation of the interleukin 10 gene in mice results in enhanced T cell responses but normal innate responses to lipopolysaccharide or skin irritation. ***J. Exp. Med.*** 2004; 200:1289-97

Babbe H*, **Roers A***, Waisman A, Lassmann H, Goebels N, Hohlfeld R, Friese M, Schröder R, Deckert M, Schmidt S, Ravid R, Rajewsky K. Clonal expansions of CD8(+) T cells dominate the T cell infiltrate in active multiple sclerosis lesions as shown by micromanipulation and single cell polymerase chain reaction. ***J. Exp. Med.*** 2000;192:393-404 ***equal contribution**