

Personal Data	
Name	Philip Rosenstiel
Year and Place of Birth	
Institution	Christian Albrechts University Kiel
Institute/Department	Institute of Clinical Molecular Biology
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Education/Training	
2003	Dissertation (Dr. med.) "summa cum laude"
2001	Final Examination Medicine (MD)
1994 - 2001	Scholarship of the Studienstiftung des Deutschen Volkes
1994 - 2001	Study of Medicine at the Christian-Albrechts-Universität zu Kiel, Germany and Tufts University, Boston, USA

Research Experience/Academic Appointments	
since 2016	Professor of Molecular Medicine (W3), Kiel University
2016	Offer Chair position at Universite Poincare and INSERM 1256, Nancy (declined)
2012 - 2016	Professor of Molecular Medicine (W2), Kiel University
since 2012	Director, Institute of Clinical Molecular Biology, Kiel University
2007 - 2012	Professor of Molecular and Marine Medicine (W2), IKMB, Kiel University
2005 - 2007	Postdoctoral fellow (delegated), Max Planck Institute for Molecular Genetics, Berlin (Prof. Dr. H. Lehrach)
2004 - 2005	Group leader Cell Biology, Institute of Clinical Molecular Biology (Prof. Dr. S. Schreiber), Kiel University
2003	Dissertation (Dr. med.) "summa cum laude"
2001 - 2006	Training in Internal Medicine, 1 st Medical Department, University Hospital Kiel
2001 - 2004	Postdoctoral fellow in the 1 st Medical Department, University Hospital Kiel and the Institute of Clinical Molecular Biology, Kiel University
2001	Final Examination Medicine (MD)
1997 - 1998	BMEP research fellowship at the Jackson Laboratory, Bar Harbor, USA (P. Nishina and J. Naggert), and St. Elisabeth Hospital Boston, USA (J. Isner)
1996 - 2002	MD thesis at the Institute of Anatomy (Prof. Dr. J. Sievers), Kiel University
1994 - 2001	Scholarship of the Studienstiftung des Deutschen Volkes
1994 - 2001	Study of Medicine at Kiel University and Tufts University, Boston, USA

Important Scientific Prizes/Functions	
since 2017	Elected speaker of the project committee of the national e:Med BMBF systems medicine program
since 2017	Member of the Steering board of the International Human Epigenome Consortium (IHEC)
since 2017	Schleswig-Holstein Excellence Chair
since 2017	Elected speaker of the project committee of the SYSCID consortium
2004	Prize for the best doctoral thesis of the Medical faculty of the University of Kiel ('Dissertationspreis 2003')
2003	Hensel-Research Prize of Kiel University (CAU)
2001	Recipient of the Graduate stipend of the "Novartis Stiftung für therapeutische Forschung"

Main Publications (10 selected)

Aden K*, Tran F*, Ito G*, (...) Pasparakis M, Blumberg RS, Schreiber S, Kaser A, **Rosenstiel P** (2018) ATG16L1 orchestrates interleukin-22-signaling in the intestinal epithelium via cGAS/STING. **J Exp Med**, DOI: 10.1084/jem.20171029, epub ahead of print

Aden K, Bartsch K, Dahl J, Reijns MAM, Esser D, Sheibani-Tezerji R, Sinha A, Wottawa F, Ito G, Mishra N, Knittler K, Burkholder A, Welz L, van Es J, Tran F, Lipinski S, Kakavand N, Boeger C, Lucius R, von Schoenfels W, Schafmayer C, Lenk L, Chalaris A, Clevers H, Röcken C, Kaleta C, Rose-John S, Schreiber S, Kunkel T, Rabe B, **Rosenstiel P**. Epithelial RNase H2 Maintains Genome Integrity and Prevents Intestinal Tumorigenesis in Mice. **Gastroenterology**. 2018, epub ahead of print

Karki R, Man SM, Malireddi RK, Kesavardhana S, Zhu Q, Burton AR, Sharma BR, Qi X, Pelletier S, Vogel P, **Rosenstiel P**, Kanneganti TD (2017). NLRC3 is an inhibitory sensor of PI3K-mTOR pathways in cancer. **Nature**. 540:583–587

Pan WH, Sommer F, Falk-Paulsen M, Ulas T, Best P, Fazio A, Kachroo P, Luzius A, Jentzsch M, Rehman A, Müller F, Lengauer T, Walter J, Künzel S, Baines JF, Schreiber S, Franke A, Schultze JL, Bäckhed F, **Rosenstiel P**. Exposure to the gut microbiota drives distinct methylome and transcriptome changes in intestinal epithelial cells during postnatal development. **Genome Med**. 2018 Apr 13;10(1):27.

Adolph TE, Tomczak MF, Niederreiter L, Ko HJ, Böck J, Martinez-Naves E, Glickman JN, Tschurtschenthaler M, Hartwig J, Hosomi S, Flak MB, Cusick JL, Kohno K, Iwawaki T, Billmann-Born S, Raine T, Bharti R, Lucius R, Kweon MN, Marciak SJ, Choi A, Hagen SJ, Schreiber S, **Rosenstiel P**, Kaser A*, Blumberg RS* (2013). Paneth cells as a site of origin for intestinal inflammation. **Nature**. 503(7475):272-6. *equal contribution

Lappalainen T, Sammeth M, Friedländer MR, 't Hoen PA, Monlong J, Rivas MA, González-Porta M, Kurbatova N, Griebel T, Ferreira PG, Barann M, Wieland T, Greger L, van Iterson M, Almlöf J, Ribeca P, Pulyakhina I, Esser D, Giger T, Tikhonov A, Sultan M, Bertier G, MacArthur DG, Lek M, Lizano E, Buermans HP, Padoleau I, Schwarzmayr T, Karlberg O, Ongen H, Kilpinen H, Beltran S, Gut M, Kahlem K, Amstislavskiy V, Stegle O, Pirinen M, Montgomery SB, Donnelly P, McCarthy MI, Flück P, Strom TM, Geuvadis Consortium, Lehrach H, Schreiber S, Sudbrak R, Carracedo A, Antonarakis SE, Häslér R, Syvänen AC, van Ommen GJ, Brazma A, Meitinger T, **Rosenstiel P**, Guigó R, Gut IG, Estivill X, Dermitzakis ET (2013). Transcriptome and genome sequencing uncovers functional variation in humans. **Nature**. 501(7468):506-11.

Couturier-Maillard A, Secher T, Rehman A, Normand S, De Arcangelis A, Haesler R, Huot L, Grandjean T, Bressenot A, Delanoye-Crespin A, Gaillot O, Schreiber S, Lemoine Y, Ryffel B, Hot D, Núñez G, Chen G, **Rosenstiel P***, Chamaillard M* (2013). NOD2-mediated dysbiosis predisposes mice to transmissible colitis and colorectal cancer. **J Clin Invest**. 123(2):700-11. *equal contribution

Häslér R, Feng Z, Bäckdahl L, Spehlmann ME, Franke A, Teschendorff A, Rakyan VK, Down TA, Wilson GA, Feber A, Beck S, Schreiber S, **Rosenstiel P** (2012). A functional methylome map of ulcerative colitis. **Genome Res**. 22(11):2130-7.

Richter J, Schlesner M, Hoffmann S, Kreuz M, Leich E, Burkhardt B, Rosolowski M, Ammerpohl O, Wagener R, Bernhart SH, Lenze D, Szczepanowski M, Paulsen M, Lipinski S, Russell RB, Adam-Klages S, Apic G, Claviez A, Hasenclever D, Hovestadt V, Hornig N, Korbel JO, Kube D, Langenberger D, Lawerenz C, Lisfeld J, Meyer K, Picelli S, Pischedl J, Radlwimmer B, Rausch T, Rohde M, Schilhabel M, Scholtysik R, Spang R, Trautmann H, Zenz T, Borkhardt A, Drexler HG, Möller P, MacLeod RA, Pott C, Schreiber S, Trümper L, Loeffler M, Stadler PF,

Lichter P, Eils R, Küppers R, Hummel M, Klapper W, **Rosenstiel P***, Rosenwald A*, Brors B*, Siebert R*; ICGC MMML-Seq Project. Recurrent mutation of the ID3 gene in Burkitt lymphoma identified by integrated genome, exome and transcriptome sequencing. **Nat Genet.** 2012 Dec;44(12):1316-20 *equal contribution

Hashimoto T, Perlot T, Rehman A, Trichereau J, Ishiguro H, Paolino P, Sigl V, Wild B, Hanada T, Hanada R, Lipinski S, Wild B, Camargo S, Singer D, Richter A, Kuba K, Fukamizu A, Schreiber S, Clevers H, Verrey F, **Rosenstiel P***, Penninger JM* (2012). ACE2 links amino acid malnutrition, microbial ecology and intestinal inflammation. **Nature.** 487(7408):477-81. *equal contribution.