

Curriculum Vitae

Univ. Prof. Daniel R. Engel, PhD

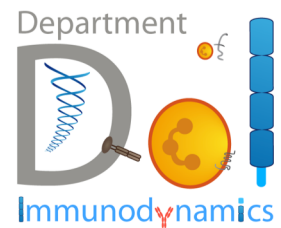
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Scientific Education and Professional Positions

Since 05/2014	Professor of Immunodynamics, University Duisburg-Essen, Germany
04/2010 – 04/2014	Principal Investigator and Head of the Junior Research Group “Cellular and molecular mechanisms of the innate immune response in urinary tract infection”, Institute of Experimental Medicine, University Hospital Bonn, Germany
04/2007 – 03/2010	Postdoctoral Research at the Centre for Inflammatory Diseases, Monash University, Department of Medicine, Melbourne, Australia And the Institute of Experimental Medicine, University Hospital Bonn, Germany
07/2003 – 03/2007	PhD, Institute of Molecular Medicine and Experimental Immunology, University Hospital Bonn, Germany
10/1998 – 06/2003	Undergraduate and Graduate Studies in Biology, University Bonn, Germany

Scholarships, Awards and Commissions of trust

Scholarships	DAAD scholarship at the Centre for Inflammatory Diseases, Monash University, Department of Medicine, Melbourne, Australia
Awards	2011 Fritz and Ursula Melchers Award of the German Society of Immunology (DGFI) 2013 “Best Young Research Group” of the University Hospital Bonn
Commissions	<u>Ad hoc Reviewer:</u> <i>Nat Commun, J Clin Invest, J Am Soc Nephrol, Kidney Int, Eur J Immunol, Histochem Cell Biol, Biomark Insights, Nephrol Dial Transplant, Front Immunol, Mediators Inflamm, J Leukoc Biol, Pathogens</i> <u>Spokesman</u> of the User-Board, Medical Research Center at the University Duisburg-Essen <u>DFG-funded Graduate School:</u> Member of the BIOME Core <i>Infectious Diseases</i> , University Duisburg-Essen <u>External Reviewer for grant applications:</u> German Research Foundation, Germany; Agence nationale de la recherche, France; Wellcome Trust, UK

Summary of the Scientific Career

Daniel R. Engel is a Professor for Immunodynamics at the Institute of Experimental Immunology and Imaging, University Duisburg-Essen, Germany. Daniel studied Biology and graduated in Infection-Immunology at the University Bonn in Germany. During his PhD from 2003 to 2007, he studied the migration and function of myeloid cells during bacterial infections. Daniel performed his Postdoc at the Centre for Inflammatory Diseases, Monash University, Department of Medicine, Melbourne, Australia and at the Institute of Experimental Immunology at the University Hospital Bonn. In 2010, he became an independent group leader at the University Hospital Bonn and his research was awarded by the “Fritz und Ursula Melcher Award” from the German Society of Immunology and the “Young investigator award” from the University Hospital Bonn. In 2013, Daniel was appointed Full W2-Professor for Immunodynamics at the Institute of Experimental Immunology and Imaging at the University Duisburg-Essen, Germany. Over the last 15 years, his immunological research pioneered the field of macrophage and neutrophil crosstalk in a variety of inflammatory and disease settings.

10 most important publications (Peer reviewed)

Pohl JM, ... , **Engel DR**. CCR2-dependent Gr1^{high} monocytes promote kidney injury in shiga toxin-induced hemolytic uremic syndrome in mice. *Eur J Immunol*, Epub ahead of print (2018).

Dixit A, ... , **Engel DR**. Proliferation of Ly6C⁺ monocytes during urinary tract infections is regulated by IL-6 trans-signaling. *J Leukoc Biol*, 1, 13-22 (2018).

Pohl JM, ... , **Engel DR**. Irf4-dependent CD103⁺CD11b⁺ dendritic cells and the intestinal microbiome regulate monocyte and macrophage activation and intestinal peristalsis in postoperative ileus. *Gut*, 12, 2110-2120 (2017).

Zec, K., ... **Engel, D.R.** Neutrophil Migration into the Infected Uroepithelium Is Regulated by the Crosstalk between Resident and Helper Macrophages. *Pathogens* 5 (2016).

Engel DR et al. *J Immunol*, 194, 1628-38 (2015).

Schiwon M, ... , **Engel DR**. Crosstalk between Sentinel and Helper Macrophages Permits Neutrophil Migration into Infected Uroepithelium. *Cell*, 156, 456-68.

Snelgrove SL, ... , **Engel DR***, Kitching AR* (2012). Renal dendritic cells adopt a pro-inflammatory phenotype in obstructive uropathy to activate T cells but do not directly contribute to fibrosis. *Am J Pathol*, 180, 91-103 (2014). *contributed equally

Engel DR et al. T helper type 1 memory cells disseminate postoperative ileus over the entire intestinal tract. *Nat Med*, 16, 1407-13 (2010).

Engel DR et al. CCR2 mediates homeostatic and inflammatory release of Gr1^(high) monocytes from the bone marrow, but is dispensable for bladder infiltration in bacterial urinary tract infection. *J Immunol*, 181, 5579-86 (2008).

Engel DR et al. Tumor necrosis factor alpha- and inducible nitric oxide synthase-producing dendritic cells are rapidly recruited to the bladder in urinary tract infection but are dispensable for bacterial clearance. *Infect Immun*, 74, 6100-7 (2006).