

Andreas Dahl, PhD

1 | General information

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Current position: Head of DRESDEN-concept Genome Center, TU Dresden

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2 | Academic education

2002 – 2007 PhD student, Max Planck Institute for Molecular Genetics / FU Berlin
1995 – 2000 Studies and Diploma in Nutritional Sciences, University of Potsdam

3 | Advanced academic qualifications:

2007 PhD thesis, Molecular Genetics, “Development of a miniaturised platform for PCR based assays with application in gene expression analysis and SNP genotyping”, Max Planck Institute for Molecular Genetics / Freie Universität Berlin (Supervisor: Hans Lehrach)

4 | Postgraduate professional career:

Since 2013 Head of DRESDEN-concept Genome Center Dresden, TU Dresden
Since 2010 Head of Deep Sequencing Group, BIOTEC, TU Dresden
2007 – 2010 Junior Group Leader, Max Planck Institute for Molecular Genetics, Miniaturization in Functional Genomics, Technology Development Group, MOLGEN Berlin
2004 – 2007 PhD thesis Max Planck Institute for Molecular Genetics / Freie Universität Berlin

6 | Selected publications:

1. Kraus G, Weigelt M, Reinhardt S, Petzold A, **Dahl A**, Bonifacio E. Reproducibility of 10x Genomics single cell RNA sequencing method in the immune cell environment. **J Immunol Methods** 2022; 502:113227
2. Subramanian P, Gargani S, Palladini A, Chatzimike M, Grzybek M, Peitzsch M, Papanastasiou AD, Pyrina I, Ntakis V, Gercken B, Lesche M, Petzold A., Sinha, A., Nati, M., Thangapandi, V. R., Kourtzelis I, Andreadou M, Witt A, **Dahl A**, Burkhardt R, Haase R, Domingues AMJ, Henry I, Zamboni N, Mirtschink P, Chung KJ, Hampe J, Coskun Ü, Kontoyiannis DL, Chavakis T. The RNA binding protein human antigen R is a gatekeeper of liver homeostasis. **Hepatology** 2022; 75(4):881-897
3. Wigger L, Barovic M, Brunner AD, Marzetta F, Schöniger E, Mehl F, Kipke N, Friedland D, Burdet F, Kessler C, Lesche M, Thorens B, Bonifacio E, Legido-Quigley C, Barbier Saint Hilaire P, Delerive P, **Dahl A**, Klose C, Gerl MJ, Simons K, Aust D, Weitz J, Distler M, Schulte AM, Mann M, Ibberson M, Solimena M. Multi-omics profiling of living human pancreatic islet donors reveals heterogeneous beta cell trajectories towards type 2 diabetes. **Nat Metab** 2021; 3(7),1017–1031
4. Juznić L, Peuker K, Strigli A, Brosch M, Herrmann A, Häsler R, Koch M, Matthiesen L, Zeissig Y, Löscher BS, Nuber, A., Schotta G, Neumeister V, Chavakis T, Kurth T, Lesche M, **Dahl A**, Von Mässenhausen A, Linkermann A, Zeissig S. SETDB1 is required for intestinal epithelial differentiation and the prevention of intestinal inflammation. **Gut** 2021; 70(3),485–498
5. Kalafati L, Kourtzelis I, Schulte-Schrepping J, Li X, Hatzioannou A, Grinenko T, Hagag E, Sinha A, Has C, Dietz S, de Jesus Domingues AM, Nati M, Sormendi S, Neuwirth A, Chatzigeorgiou A, Ziogas A, Lesche M, **Dahl A**, Henry I, Chavakis T. Innate Immune Training of Granulopoiesis Promotes Anti-tumor Activity. **Cell** 2020; 183(3),771-785.e12

6. Cosacak MI, Bhattarai P, Reinhardt S, Petzold A, **Dahl A**, Zhang Y, Kizil C. Single-Cell Transcriptomics Analyses of Neural Stem Cell Heterogeneity and Contextual Plasticity in a Zebrafish Brain Model of Amyloid Toxicity. **Cell Rep** 2019; 27(4):1307-1318.e3
7. Tomizawa SI, Kobayashi Y, Shirakawa T, Watanabe K, Mizoguchi K, Hoshi I, Nakajima K, Nakabayashi J, Singh S, **Dahl A**, Alexopoulou D, Seki M, Suzuki Y, Royo H, Peters AHFM, Anastassiadis K, Stewart AF, Ohbo K. Kmt2b conveys monovalent and bivalent H3K4me3 in mouse spermatogonial stem cells at germline and embryonic promoters. **Development** 2018; 145(23)
8. Brosch M, Kattler K, Herrmann A, von Schönfels W, Nordström K, Seehofer D, Damm G, Becker T, Zeissig S, Nehring S, Reichel F, Moser V, Thangapandi RV, Stickel F, Baretton G, Röcken C, Muders M, Matz-Soja M, Krawczak M, Gasparoni G, Hartmann H, **Dahl A**, Schafmayer C, Walter J, Hampe. Epigenomic map of human liver reveals principles of zonated morphogenic and metabolic control. **J Nat Commun** 2018; 9(1):4150
9. Mitroulis I, Ruppova K, Wang B, Chen LS, Grzybek M, Grinenko T, Eugster A, Troullinaki M, Palladini A, Kourtzelis I, Chatzigeorgiou A, Schlitzer A, Beyer M, Joosten LAB, Isermann B, Lesche M, Petzold A, Simons K, Henry I, **Dahl A**, Schultze JL, Wielockx B, Zamboni N, Mirtschink P, Coskun Ü, Hajishengallis G, Netea MG, Chavakis T. Modulation of Myelopoiesis Progenitors Is an Integral Component of Trained Immunity. **Cell** 2018; 172(1-2):147-161.e12
10. Florio M, Albert M, Taverna E, Namba T, Brandl H, Lewitus E, Haffner C, Sykes A, Wong FK, Peters J, Guhr E, Klemroth S, Prüfer K, Kelso J, Naumann R, Nüsslein I, **Dahl A**, Lachmann R, Pääbo S, Huttner WB. Human-specific gene ARHGAP11B promotes basal progenitor amplification and neocortex expansion. **Science** 2015; 347(6229):1465-70