Soeren Lienkamp

Education:

1985 - 1989	Primary school in Essen
1989 - 1998	High school, Essen, final exam: Abitur
1995 - 1996	High school exchange year, Waynesfield, Ohio, USA
1999 - 2007	Medical School, University Freiburg

Scientific education and professional experience:

2002 - 2006	MD thesis with Prof. Dr. J. Gloy, Renal Division, University Hospital Freiburg Freiburg
2003 - 2004	Research student year at the Department of Molecular Biology, Graduate School of Science, Division of Cell Signaling, Prof. K. Matsumoto, Nagoya Universtity (名古屋大学), Japan
2007 - 2011	Postdoctoral Fellowship and Clinical Resident with Prof. G. Walz, Renal Division, University Hospital Freiburg
2011 - 2014	Junior-group leader within the clinical research unit KFO 201 (Polycystic Disease – From Model Organisms to Novel Therapies), DFG funded
Since 2014	Emmy-Noether-group leader, Department of Nephrology, University Hospital Freiburg, DFG funded
Since 2014	Principle Investigator of the SFB 1140 KIDGEM (Kidney Disease – from Genes to Mechanisms), DFG funded

Scientific honors:

2003	AIEJ Scholarship, Ministry of Education, Japan
2007	Doctoral degree “summa cum laude”
2007	Young Researchers Award of Freiburg University (Pfizer Preis für Nachwuchswissenschaftler)
2013	Theodor-Frerichs-Award of the German Society for Internal Medicine (DGIM)
2014	Admission to the Emmy-Noether Group Program (DFG funded)
2015	Heinz Maier-Leibnitz Preis of the Deutsche Forschungs-gemeinschaft (DFG)
2015	Associated Member of the Cluster of Excellence, Centre for Biological Signalling Studies (BIOSS)
2016	Principle Investigator at the Spemann Graduate School of Biology and Medicine (SGBM)

Publications

Vivante A, Mann N, Yonath H, Weiss AC, Getwan M, Kaminski MM, Bohnenpoll T, Teyssier C, Chen J, Shril S, van der Ven AT, Ityel H, Schmidt JM, Widmeier E, Bauer SB, Sanna-Cherchi S, Gharavi AG, Lu W, Magen D, Shukrun R, Lifton RP, Tasic V, Stanescu HC, Cavailles V, Kleta R, Anikster Y, Dekel B, Kispert A, Lienkamp SS, and Hildebrandt F. A Dominant Mutation in Nuclear Receptor Interacting Protein 1 Causes Urinary Tract Malformations via Dysregulation of Retinoic Acid Signaling. **Journal of the American Society of Nephrology : JASN** 10.1681/ASN.2016060694 (2017).

Getwan M, and Lienkamp SS. Toolbox in a tadpole: Xenopus for kidney research. **Cell and tissue research** 10.1007/s00441-017-2611-2 (2017).

Kaminski M, Tosic J, Kresbach C, Engel H, Klockenbusche J, Müller A-L, Pichler R, Grahammer F, Kretz O, Huber TB, Walz G, Arnold SJ, Lienkamp SS. Direct Reprogramming of Fibroblasts into Renal Tubular Epithelial Cells by Defined Transcription Factors. ***Nature Cell Biology*** 18, 1269-1280 (2016).

Lienkamp SS. Using Xenopus to study genetic kidney diseases. ***Seminars in cell & developmental biology*** 51, 117-124 (2016).

Yasunaga T, Hoff S, Schell C, Helmstadter M, Kretz O, Kuechlin S, Yakulov TA, Engel C, Muller B, Bensch R, Ronneberger O, Huber TB, Lienkamp SS, and Walz G. The polarity protein Inturned links NPHP4 to Daam1 to control the subapical actin network in multiciliated cells. ***The Journal of cell biology*** 211, 963-973 (2015).

Yakulov TA, Yasunaga T, Ramachandran H, Engel C, Muller B, Hoff S, Dengjel J, Lienkamp SS, and Walz G. Anks3 interacts with nephronophthisis proteins and is required for normal renal development. ***Kidney international*** 87, 1191-1200 (2015).

Vivante A, Kleppa MJ, Schulz J, Kohl S, Sharma A, Chen J, Shril S, Hwang DY, Weiss AC, Kaminski MM, Shukrun R, Kemper MJ, Lehnhardt A, Beetz R, Sanna-Cherchi S, Verbitsky M, Gharavi AG, Stuart HM, Feather SA, Goodship JA, Goodship TH, Woolf AS, Westra SJ, Doody DP, Bauer SB, Lee RS, Adam RM, Lu W, Reutter HM, Kehinde EO, Mancini EJ, Lifton RP, Tasic V, Lienkamp SS, Juppner H, Kispert A, and Hildebrandt F. Mutations in TBX18 Cause Dominant Urinary Tract Malformations via Transcriptional Dysregulation of Ureter Development. ***American journal of human genetics*** 97, 291-301 (2015).

Funk MC, Bera AN, Menchen T, Kuales G, Thriene K, Lienkamp SS, Dengjel J, Omran H, Frank M, and Arnold SJ. Cyclin O (Ccno) functions during deuterosome-mediated centriole amplification of multiciliated cells. ***The EMBO journal*** 34, 1078-1089 (2015).

Epting D, Slanchev K, Boehlke C, Hoff S, Loges NT, Yasunaga T, Indorf L, Nestel S, Lienkamp SS, Omran H, Kuehn EW, Ronneberger O, Walz G, and Kramer-Zucker A. The Rac1 regulator ELMO controls basal body migration and docking in multiciliated cells through interaction with Ezrin. ***Development*** 142, 1553 (2015).

Ramachandran H, Schafer T, Kim Y, Herfurth K, Hoff S, Lienkamp SS, Kramer-Zucker A, and Walz G. Interaction with the Bardet-Biedl gene product TRIM32/BBS11 modifies the half-life and localization of Glis2/NPHP7. ***The Journal of biological chemistry*** 289, 8390-8401 (2014).

Borgal L, Rinschen MM, Dafinger C, Hoff S, Reinert MJ, Lamkemeyer T, Lienkamp SS, Benzing T, and Schermer B. Casein kinase 1 alpha phosphorylates the Wnt regulator Jade-1 and modulates its activity. ***The Journal of biological chemistry*** 289, 26344-26356 (2014).

Hoff S, Halbritter J, Epting D, Frank V, Nguyen TM, van Reeuwijk J, Boehlke C, Schell C, Yasunaga T, Helmstadter M, Mergen M, Filhol E, Boldt K, Horn N, Ueffing M, Otto EA, Eisenberger T, Elting MW, van Wijk JA, Bockenhauer D, Sebire NJ, Rittig S, Vyberg M, Ring T, Pohl M, Pape L, Neuhaus TJ, Elshakhs NA, Koon SJ, Harris PC, Grahammer F, Huber TB, Kuehn EW, Kramer-Zucker A, Bolz HJ, Roepman R, Saunier S, Walz G, Hildebrandt F, Bergmann C, and Lienkamp SS. ANKS6 is a central component of a nephronophthisis module linking NEK8 to INVS and NPHP3. ***Nature genetics*** 45, 951-956 (2013).

Lienkamp SS, Liu K, Karner CM, Carroll TJ, Ronneberger O, Wallingford JB, and Walz G. Vertebrate kidney tubules elongate using a planar cell polarity-dependent, rosette-based mechanism of convergent extension. ***Nature genetics*** 44, 1382-1387 (2012).

Lienkamp S, Ganner A, and Walz G. Inversin, Wnt signaling and primary cilia. ***Differentiation; research in biological diversity*** 83, S49-55 (2012).

Lienkamp S, Ganner A, Boehlke C, Schmidt T, Arnold SJ, Schafer T, Romaker D, Schuler J, Hoff S, Powelske C, Eifler A, Kronig C, Bullerkotte A, Nitschke R, Kuehn EW, Kim E, Burkhardt H, Brox T, Ronneberger O, Gloy J, and Walz G. Inversin relays Frizzled-8 signals to promote proximal pronephros development. ***Proceedings of the National Academy of Sciences of the United States of America*** 107, 20388-20393 (2010).

Ganner A, Lienkamp S, Schafer T, Romaker D, Wegierski T, Park TJ, Spreitzer S, Simons M, Gloy J, Kim E, Wallingford JB, and Walz G. Regulation of ciliary polarity by the APC/C. ***Proceedings of the National Academy of Sciences of the United States of America*** 106, 17799-17804 (2009).

Schafer T, Putz M, Lienkamp S, Ganner A, Bergbreiter A, Ramachandran H, Gieloff V, Gerner M, Mattonet C, Czarnecki PG, Sayer JA, Otto EA, Hildebrandt F, Kramer-Zucker A, and Walz G. Genetic and physical interaction between the NPHP5 and NPHP6 gene products. ***Human molecular genetics*** 17, 3655-3662 (2008).
Bergmann C, Fliegauf M, Bruchle NO, Frank V, Olbrich H, Kirschner J, Schermer B, Schmedding I, Kispert A, Kranzlin B, Nurnberg G, Becker C, Grimm T, Girschick G, Lynch SA, Kelehan P, Senderek J, Neuhaus TJ, Stallmach T, Zentgraf H, Nurnberg P, Gretz N, Lo C, Lienkamp S, Schafer T, Walz G, Benzing T, Zerres K, and Omran H. Loss of nephrocystin-3 function can cause embryonic lethality, Meckel-Gruber-like syndrome, situs inversus, and renal-hepatic-pancreatic dysplasia. ***American journal of human genetics*** 82, 959-970 (2008).

Horndasch M, Lienkamp S, Springer E, Schmitt A, Pavenstadt H, Walz G, and Gloy J. The C/EBP homologous protein CHOP (GADD153) is an inhibitor of Wnt/TCF signals. ***Oncogene*** 25, 3397-3407 (2006).

Eiberg, C., Funke, A., Lienkamp, S.,. (2002) Studierende an der Medizinischen Fakultät in der Zeit des Nationalsozialismus -- p. 221-244 -- In: ***Medizin und Nationalsozialismus : die Freiburger Medizinische Fakultät und das Klinikum in der Weimarer Republik und im "Dritten Reich"***. Frankfurt am Main : Peter Lang, 2002

Patent

Lienkamp SS, Kaminski M, Arnold S, Walz G. (2015) Method of Producing Renal Cells from Fibroblasts, (2016), European patent application EP16185290, EP16152655 and PCT/EP2017/0501504