

Partner 2
Prof. Lydia Sorokin

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Tabular CV

Year	Achievements
1977-1981	BSc (1st class Hons): Undergraduate studies in Biochemistry, Physiology, Zoology, University of Western Australia, Perth, Western Australia.
1984-1987	PhD, University of Western Australia, Perth, Western Australia
1988-1990	Athelstan and Amy Saw Medical Research Fellowship of the University of Western Australia & DAAD postdoctoral stipendium to work with Prof. Dr. P. Ekblom, Friedrich-Miescher-Laboratory of the Max-Planck Society, Tübingen, Germany.
1991-1993	Postdoc with Prof. Dr. K. von der Mark, Max-Planck Society, Connective Tissue Research Group, Erlangen, Germany
1994-1999	Group Leader; Institute for Experimental Medicine, University of Erlangen Nürnberg, Erlangen, Germany
1999	Habilitation in Cell and Developmental Biology, University of Erlangen-Nürnberg, Erlangen, Germany.
1999-2001	Junior Professor (Nachwuchsgruppenleiterin), Interdisciplinary Center for Clinical Research, Nikolaus Fiebiger Center, University of Erlangen-Nürnberg, Germany.
2001 to present	Adjunct Professorship in Anatomy and Human Biology at the University of Western Australia, Perth, Australia
2001	Awarded Swedish Natural Science Research Council Senior Research Fellowship
2001-2004	Chair of Tissue Biology, Head of Experimental Pathology, University of Lund, Sweden.
Since 2005	Chair of Pathobiochemistry, Münster University, Münster, Germany

5 Selected Representative Publications

1. Hallmann, R., Horn, N., Selg, M., Wendler, O., Pausch, F. and Sorokin, L. M. (2005). Expression and function of laminins in the embryogenonic and mature of vasculature. *Physiol. Rev.* **85**, 979-1000.
2. Sixt, M., Kanazawa, N., Selg, M., Samson, T., Roos, G., Reinhardt, D. P., Papst, R., Lutz, M. B. and Sorokin, L. (2005). The conduit system transports soluble antigens from the afferent lymph to resident dendritic cells in the T cell area of the lymph node. *Immunity* **22**, 19-30.
3. Agrawal, S., Anderson, P., Durbeej, M., van Rooijen, N., Ivars, F., Opdenakker, G., and Sorokin, L. M. (2006). Dystroglycan is selectively cleaved at the parenchymal basement membrane at sites of leukocyte extravasation in experimental autoimmune encephalomyelitis. *J. Exp. Med.* **203**, 1007-1019
4. Lokmic, Z., Leammermann, T., Sixt, M., Cardell, S., Hallmann, R. and Sorokin, L. (2008). The Extracellular Matrix of the Spleen as a Potential Organizer of Immune Cell Compartments. *Sem. Immunol.* **20**, 4-13.
5. Wu, C., Rauch, U., Korpos, E., Song, J., Loser, K., Crocker, P. R. and Sorokin, L.M. (2009). Sialoadhesin-Positive Macrophages Bind Regulatory T Cells, Negatively Controlling their Expansion and Autoimmune Disease Progression. *J Immunol.* **182**, 6508-6516 .
6. Wu, C, Ivars, F., Andersson, P., Hallmann, R., Vestweber, D., Nilsson, P., Robenek, H., Tryggvason, K., Song, J., Korpos, E., Loser, K., Beissert, S., Georges-Labouesse, E. and Sorokin, L. (2009). Endothelial basement membrane laminin $\alpha 5$ selectively inhibits T lymphocyte extravasation into the brain. *Nature Medicine* **15**, 519-527.

Project Description/ Role in ITN

This partner will contribute expertise on the role of **blood vessel basement membranes** in vessel integrity/ stability and function. The group specializes in the biochemistry and functional roles of laminins, the major function component of basement membranes, and has contributed significantly to the structural and functional characterization of the two of the five known laminin α chains. A further portion of the work of this group is the role of vascular basement membranes as barriers to the movement of leukocytes and mechanisms employed by different leukocytes types to penetrate these protein barriers. As such, L Sorokin will contribute principally to WP 4 (Roles of laminin isoforms in mechanotransduction in endothelium and smooth muscle), but will also contribute significantly WP 1 (Cell-matrix interaction under mechanical load), WP 6 (Cross-linking of the collagen matrix: role of transglutaminases) and WP 7 (Role of monocytes/ macrophages in vessel wall extracellular matrix in remodelling).