Nick Barker, Ph.D.

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1995-2001	Postdoctoral Fellow, University Medical Center Utrecht, the Netherlands
2001-2005	Senior Research Scientist, Semaia Pharmaceuticals BV, the Netherlands
2006-2010	Staff Scientist, Hubrecht Institute, Utrecht, the Netherlands
2010-present	Senior Principal Investigator, Institute of Medical Biology, Singapore & Chair of Tissue Regeneration (Visiting) University of Edinburgh, UK

Specialty & Research Field of Interest

Epithelial Stem Cells, Tissue Engineering, Cancer

Selected Publications

1. Ng A, Tan S, Singh G, Rizk P, Swath Y, Tan TZ, Huang RY-U, Leushacke M, & Barker N. (2014) Lgr5 Marks Stem/Progenitor Cells in Ovary and Tubal Epithelia. **Nat Cell Biol** 16:745
2. Leushacke, M & Barker, N. (2014) Ex Vivo Culture of the Intestinal Epithelium - Strategies and Applications. **Gut** 63:1345
3. Tan S & Barker N. (2014) Epithelial Stem Cells and Intestinal Cancer. **Semin. Cancer Biol** S1044
4. Barker N. (2014). Adult Intestinal Stem Cells: Critical Drivers of Epithelial Homeostasis and Regeneration. **Nat Rev Mol Cell Biol,** 15:19
5. Leushacke M, Ng A, Galle J, Loeffler M & Barker N. (2013). Lgr5^{+ve} Gastric Stem Cells Divide Symmetrically to Effect Epithelial Homeostasis in the Pylorus. Cell Rep 5: 349
6. Barker N, Oudernaarden A, Clevers H (2012). Identifying the Stem Cell of the Intestinal Crypt: Strategies and Pitfalls. **Cell Stem Cell**. 11:452
7. Barker N*, Rookmaaker M, Ng A, Leushacke M, Snippert H, Kujala P, Van Es JH, Huch M, Poulsom R, Verhaar MC, Peters PJ & Clevers H. (2012). Lgr5^{+ve} Stem Cells Contribute to Nephron Formation During Kidney Development. **Cell Rep.** 2:549 (*Corresponding author).
8. van Es JH, Sato T, van de Wetering M, Lyubimova A, Ng A, Gregorieff A, Sasaki N, Zeinstra L, van den Born M, Korving J, Martens ACM, Barker N, van den Oudenaarden A, Clevers H (2012). Dll1 marks early secretory progenitors in gut crypts that can revert to stem cells upon tissue damage. **Nat Cell Biol**. 10:1099
9. Muñoz J, Stange DE, Schepers AG, van de Wetering M, Koo BK, Itzkovitz S, Volckmann R, Kung KS, Koster J, Radulescu S, Myant K, Versteeg R, Sansom OJ, van Es JH, Barker N, van Oudenaarden A, Mohammed S, Heck AJ, Clevers H (2012). The Lgr5 intestinal stem cell signature: robust expression of proposed quiescent '+4' cell markers. **EMBO J.** 31:3079