

Publications

Konrad C, Murali R, Varghese AB, **Nair R**^{\$} (^{\$} corresponding author). The role of cancer stem cells in tumor heterogeneity and resistance to therapy. *Can J Physiol Pharmacol.* 2017 Jan;95(1):1-15. doi: 10.1139/cjpp-2016-0079. Epub 2016 Sep 3. Review.

Junankar S, Roden D, Baker L, **Nair R**, et al, Swarbrick A. ID4 controls mammary stem cells and marks breast cancer with a stem cell-like phenotype. March 2015 **Nature Communications**

Phua Y, et al, **Nair R**, Swarbrick A. MicroRNA profiling of the developing mouse mammary gland identifies miR-184 as a candidate breast tumour suppressor gene. May 2015 **Breast Cancer Research**

Teo SW, **Nair R**, Swarbrick A. New insights into the role of ID proteins in breast cancer metastasis: a MET affair. May 2014 **Breast Cancer Research**

Nair R*, Teo SW*, Mittal V, Swarbrick A. ID proteins regulate diverse aspects of cancer progression and provide novel therapeutic opportunities (* co-first authors). May 2014 **Molecular Therapy**

PimentelB*-**Nair R***, Bermejo-Rodriguez C, Agu C, Preston M, Wang X, Bernal JA, Sherratt D and de la Cueva-Mendez G. Toxin Kid uncouples DNA replication and cell division to enforce retention of plasmid R1 in E.coli cells . (*co-first authors). Jan 21 2014; **Proceedings of the National Academy of Sciences**

Nair R, Roden D, Teo WS, McFarland A, Junankar S , Ye S, Nguyen A, Yang J, Nikolic I, Morey A, Shah J, Selinger C, Baker LA, Cowley M, Naylor MJ, Ormandy CJ, Lakhani SR, Kaplan W, O'Toole SA, Swarbrick, A. A Myc transcriptional program that is independent of EMT drives a poor prognosis tumour- propagating phenotype in HER2+ breast cancer. Sep 23 2013, **Oncogene**

Ali N ,et al, **Nair R**, Swarbrick A, and Daly RJ. Profiling the tyrosine phosphoproteome of mouse mammary tumor models reveals distinct signaling networks and conserved oncogenic pathways. September 2014, **Breast Cancer Research**

Karlo Dante T. Natividad; Simon Rajesh Junankar; Norhanani Mohd Redzwan; **Radhika Nair**; Rushika Christina Wirasinha; Cecile King; Robert Brink; Alexander Swarbrick; Marcel Batten. Interleukin-27 signaling promotes immunity against endogenously arising murine tumors. 2013 **Plos One**

Mun Hui, Aurélie Cazet, **Radhika Nair**, D Neil Watkins, Sandra A. O'Tooleand Alexander Swarbrick The Hedgehog Signalling Pathway in Breast Development, Carcinogenesis and Cancer Therapy. 2013, Mar 28;15(2):203 **Breast Cancer Research**

O'Toole, S.A., Machalek, D., Shearer, R., Millar, E.A., **Nair, R.**, McLeod, D., Cooper, C., McFarland, A., Qiu, M., McNeil, C.M., Rabinovich, B., Martelotto, L., Vu, D., Sutherland, R.L., Watkins, N., and Swarbrick, A. (2011). Hedgehog ligand overexpression predicts poor outcome and is a potential therapeutic target for metastatic disease. 2011 Jun 1;71(11):4002-4014 **Cancer Research**

Hochgräfe, F., Zhang, L., O'Toole, S., Browne, B.C., Pinese, M., Porta Cubas, A., Lehrbach, G.M., Croucher, D.R., Rickwood, D., Boulghourjian, A., Shearer, R., **Nair, R.**, Swarbrick, A.,

Biankin, A.V., Sutherland, R.L., J., R.M., and Daly, R.J. (2010). Tyrosine phosphorylation profiling reveals the signaling network characteristics of basal breast cancer cells. 2010 Nov 15;70(22):9391-401 **Cancer Research**

Nair, R., Junankar, S., O'Toole, S., Shah, J., Borowsky, A.D., Bishop, J.M., and Swarbrick, A. Redefining the expression and function of the inhibitor of differentiation 1 in mammary gland development. 2010 **PLoS ONE**

Nair R. Shah C. Diethylstilbestrol induces rat spermatogenic cell apoptosis in vivo through increased expression of spermatogenic cell Fas/FasL system. Vol. 278, Issue 8, 6470-6481, February 21, 2003, **J. Biol. Chem.**

Daniell Roden, LauraA Baker, Benjamin Elsworth, ChiaLing Chan, Kate Harvey, Niantao Den, Sunny Wu, Aurelie Cazet, **Radhika Nair**, Alexander Swarbrick.

Single cell transcriptomics reveals molecular subtype and functional heterogeneity in models of breast cancer.

[bioRxiv 282079; doi: https://doi.org/10.1101/282079](https://doi.org/10.1101/282079)

Aurélie Cazet*, Mun Hui*, Ben Elsworth, Sunny Wu, Caroline Cooper, Michael Samuel, Jessica Yang, Niantao Deng, Nicola Foreman, Andrea McFarland, **Radhika Nair**, Sandra O'Toole, Rosalía Caballero, Miguel Martín and Alexander Swarbrick.

Stromal Smoothened inhibition depletes triple negative breast cancer stem cells and sensitizes to chemotherapy.

<https://www.biorxiv.org/content/early/2017/11/08/215954>

LauraA Baker, Christoph Krisp, Daniel Roden, Holly Holliday, SunnyZ Wu, Simon Junankar Au relienASerandour, Hisham Mohammed, **Radhika Nair**, ChiaLing Chan, Jessica Yang, Nicola Foreman, Breanna Fitzpatrick, Geetha Sankaranarayanan, Andrew MK Law, Chris Ormandy, Matthew J Naylor, Andrea McFarland, Peter T Simpson, Sunil Lakhani, Sandra O'Toole, Christina Selinger, Lyndal Anderson, Goli Samimi, Neville F Hacker, Warren Kaplan, Jason S Carroll, Mark Molloy, Alexander Swarbrick.

A novel role for the HLH protein Inhibitor of Differentiation 4 (ID4) in the DNA damage response in basal-like breast cancer.

[bioRxiv 281196; doi: https://doi.org/10.1101/281196](https://doi.org/10.1101/281196)