

# Rajshekhar Giraddi, PhD

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## EDUCATION and RESEARCH EXPERIENCE

**Postdoctoral fellow:** Geoffrey Wahl lab, Salk Institute, Nov 2016 onwards

**FNRS Postdoctoral fellow:** Université Libre de Bruxelles, Brussels, Belgium, March 2013 – Aug 2016

**Scientific Officer:** Cambridge Cancer Research UK Institute, Oct 2012 – Feb 2013

**PhD in Oncology:** University of Cambridge, UK, Oct 2008 – Oct 2012

**Project assistant:** Indian Institute of Science & Manipal Institute, Bangalore, India June 2006 - Sep 2008

**MSc Biotechnology:** Bangalore University, India, June 2004 – June 2006

**BSc Biotechnology:** Bangalore University, India, June 2001 – June 2004

## RESEARCH OVERVIEW

I have extensive experience working with mouse mammary gland biology, human breast biology and breast cancer. I have worked on a range of projects from normal mammary stem cells to cancer stem cells and intratumor heterogeneity. I have designed, implemented and managed several projects in prestigious labs and contributed to our understanding of the cellular hierarchy, lineage restrictions, properties of stem and non-stem cells of normal and cancer breast. Currently, I am working on fetal mammary stem cells, cancer stem cells, phenotypic and intra-tumour heterogeneity in breast cancer; developing mouse models, characterize clonal interactions, evolutions and drug resistance with extensive focus on single cell RNA sequencing. In the past, I have been successful in receiving government and private grants in India, England and Belgium.

## CORE COMPETENCE

\*Epithelial biology \*Stem cells \*Cancer stem cells \*Lineage tracing \*Tumor heterogeneity \*EMT \*Mouse models \*Confocal Microscopy \*Flow Cytometry \*Routine molecular techniques \*Brainbow Mice \*Single cell techniques \*High-throughput screening \*Mouse surgeries \*In Vitro assays \*Human tissue samples \*Currently adopting CRISPR protocols

## PUBLICATIONS

(Total of 274 citations, h-index: 5)

1. ***Nature*** (2015) Vol. 525(7567). Activation of multipotency by oncogenic PIK3CA induces breast tumor heterogeneity. Van Keymeulen A, Lee MY, Ousset M, Rorive S, Brohée S, **Giraddi RR**, Wuidart A et al.
2. ***Nature Communications*** (2015) Vol. 6(8487). Stem and progenitor cell division kinetics during postnatal mouse mammary gland development. **Giraddi RR**, Shehata M, Gallardo M, Blasco MA, Simons BD and Stingl J.
3. ***Nature Cell Biology*** (2014) Vol. 10:942-50. Mammary myoepithelial cells can acquire stem cell properties. Prater MD, Petit V, Russell I, **Giraddi RR**, et al.
4. ***Breast Cancer Research*** (2014) Vol. 16(4): 411. The influence of Tamoxifen on normal mouse mammary gland homeostasis - implications for inducible lineage tracing studies. Shehata M, Amerongen RV, **Giraddi RR** and Stingl J.
5. ***PLoS ONE*** (2009) Vol. 4(4): e5329. Phenotypic and Functional Characterization of Human Mammary Stem/Progenitor Cells in Long Term Culture. Dey D, Saxena M, Paranjape AN, Krishnan V, **Giraddi RR**, et al.

## AWARDS and PARTICIPATION

1. FNRS-Televie short-term postdoctoral fellow (ULB University, Belgium)
2. Cancer Research UK PhD scholarship (University of Cambridge, UK): 1<sup>st</sup> among 120 international applications.
3. Travel fellowship winner at the prestigious RIKEN-CDB conference at Japan in addition to poster presentations at various international conferences in USA, Canada, Belgium, Germany, Switzerland, Italy and Japan.
4. Recipient of best poster award at an international conference on stem cells (1<sup>st</sup> among 65 posters, judged by Dr. Connie Eaves).
5. Presented a specific and professional report to venture capitalists for £3 million funding (team of 5) at BiotechnologyYes-BBSRC competition, UK.
6. Management of Technology and Innovation (MoTI) Programme, Judge Business School, University of Cambridge: Classes in Technology, Innovation, Decision Theory and Tech Marketing.
7. Selected participant in 3 days science communication workshop organized by BBC, Science and Cancer Research UK.