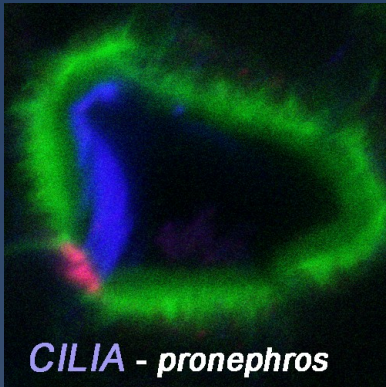




Erasmus Studies in Cell & Developmental Biology

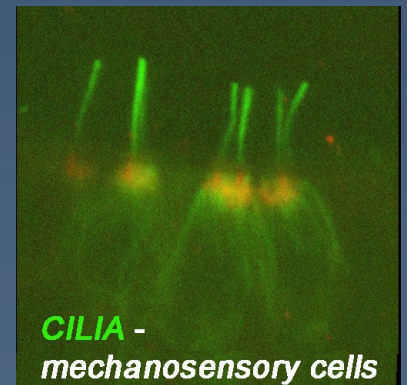
Qualified candidates are invited to conduct studies in cell & developmental biology in the laboratory of prof. Jarema Malicki at the University of Sheffield (<http://cdbg.shef.ac.uk/research/malicki/>). The laboratory studies the genetic bases of cell polarity and recently mainly focuses on the formation and function of cilia.



CILIA - pronephros

Eukaryotic cilia are highly polarized cell surface features that frequently detect and/or process extracellular signals, including chemicals, light, and polypeptides. We aim to understand how signal transduction mechanisms are assembled in cilia and how they function in processes as diverse as embryogenesis, vision, metabolism, and ageing. Malfunction of human cilia is a cause of many diseases, including polycystic kidney disease, retinitis pigmentosa, and Bardet-Biedl syndrome. These diseases cause blindness, mental retardation, limb malformations, kidney malfunction, obesity, infertility and many other abnormalities.

Jarema Malicki laboratory is affiliated with *Bateson Centre* (CDBG, <http://cdbg.shef.ac.uk/>) and the *Department of Biomedical Science* (BMS, <https://www.sheffield.ac.uk/bms>). BMS and Bateson Centre offer diverse multi-disciplinary environment to conduct research on various aspects of cell and developmental biology, including intracellular trafficking, signal transduction, tissue and cell polarity, cell proliferation, and embryonic patterning in organisms ranging from yeast to *Drosophila*, zebrafish, and the mouse.



CILIA - mechanosensory cells

Candidates are expected to have excellent academic record, and speak fluent English.

Interested individuals should contact prof. Jarema Malicki (j.malicki@sheffield.ac.uk)