



**Björn HEINDRYCKX**

Principle Investigator, Ghent-Fertility and Stem cell Team (G-FaST), Department for Reproductive Medicine, Ghent University Hospital, Ghent, BELGIUM.

Professor at Ghent University. PhD in Medical Sciences in 2006: “Experimental contribution to infertility research: Artificial gametes and assisted oocyte activation”.

Currently promoter/co-promoter of 10 PhD students. Past-Coordinator of Special Interest Group of Stem Cells of ESHRE / Co-founder of the Belgian Society for Stem Cell Research (BeSSCR)/ Board Member of the Belgian Society for Reproductive Medicine. Author and co-author of 83 A1 publications.

Main topics of research: Early lineage segregation in mouse and human / Mouse and human somatic cell nuclear transfer / Mouse and human embryonic stem cell derivation / Investigating different states of stem cell pluripotency in mouse and human / Differentiation of pluripotent stem cells into germ cells / Failed fertilisation after ICSI & the oocyte activation mechanism / Oocyte maturation arrest / Nuclear Transfer techniques to overcome mitochondrial disease transmission / Non-invasive techniques of gamete & embryo selection / Pre-implantation genetic diagnosis and screening using next generation sequencing / Peri-implantation models in human / Gene editing in the mouse and human germline