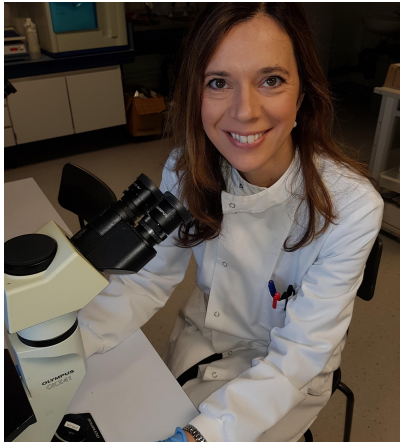
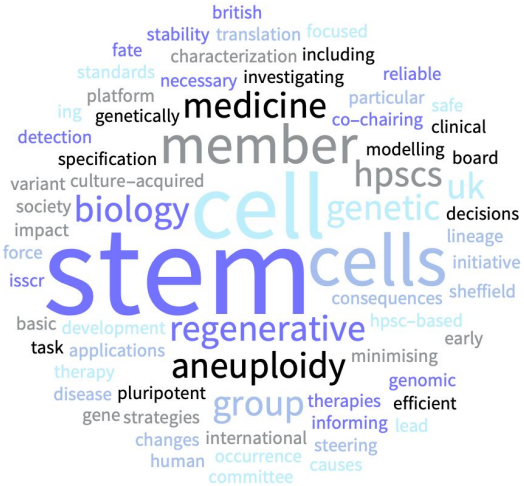
VIRTUAL HUMAN DEVELOPMENT

Ivana Barbaric



Ivana is a Professor of Stem Cell Biology at the University of Sheffield, UK. Her research is focused on the basic biology of human pluripotent stem cells (hPSCs) and their applications in regenerative medicine and disease modelling. In particular, her group is investigating the causes and consequences of aneuploidy in stem cells, including the impact of aneuploidy on stem cell fate decisions and lineage specification during early development. Her work on culture-acquired genetic changes in hPSCs is also informing strategies for reliable detection and minimising the occurrence of genetically variant cells, necessary for safe and efficient clinical translation of hPSC-based therapies. She is a member of the Steering Committee of the International Stem Cell Initiative, a Board member of the British Society for Cell and Gene therapy, a lead for the genetic stability of stem cells within the UK Regenerative Medicine Platform and a member of the ISSCR Task Force on Standards for Stem Cell Research, co-chairing the Working Group on Genomic Characterization