

Targeted Project / AY 2023 -2024

## Epigenetic inheritance and the regulation of mammalian developmental programmes

**Supervisor:** Prof Anne Ferguson-Smith ([afsmith@gen.cam.ac.uk](mailto:afsmith@gen.cam.ac.uk))

**Department/Institute:** Genetics

**Co-supervisor:** Dr Carol Edwards (Genetics)

**Research area:** Epigenetic inheritance in development

### Project outline:

We study epigenetic inheritance and the epigenetic control of genome function including using genomic imprinting as a model system to decipher epigenetic principles and concepts in mammalian development.

In collaboration with the student, we can develop a student-centred tailored project that fulfil the interests and aspirations of the student in addition to addressing our programme aims. Our group is multi disciplinary and our research takes in vivo approaches (including CRISPR), alongside and stem cell and bioinformatic 'omics' and computational technologies and the student will have therefore have access to a wide repertoire of research opportunities in mammalian developmental genetics and epigenetics.

**BBSRC DTP main strategic theme:** Understanding the rules of life

**BBSRC DTP secondary strategic theme:** Bioscience for an integrated understanding of health