

Project Title: “Rewiring the Transcriptional Machinery of Myeloid Blood Cancer: Therapeutic Targeting of Transcriptional Co-regulators”

Main Supervisor: Tim Somervaille

Research Group: [Leukaemia Biology](#)

We are seeking an outstanding and highly motivated student to join our laboratory for a prestigious, fully funded Cancer Research UK PhD studentship. The project will explore how transcription factors and their associated co-activator and co-repressor complexes control gene expression, chromatin accessibility, cell identity and therapeutic response in myeloid blood cancers. Depending on the interests and expertise of the successful candidate, there may also be an opportunity to pursue the preclinical development of novel molecules targeting an emerging therapeutic vulnerability in human leukaemia.

Our laboratory has a strong track record of translating fundamental mechanistic discoveries towards the clinic. This includes work establishing LSD1 as a therapeutic dependency in myeloid blood cancers (Harris et al., Cancer Cell 2012, PMID: 22464800; Maiques-Diaz et al., Cell Reports 2018, PMID: 29590629) and developing therapeutic approaches targeting the EP300/CBP transcriptional co-activators (Nicosia et al., Cancer Cell 2023, PMID: 37995682).

Using state-of-the-art functional genomics, genome editing, proteomics and disease models, the student will undertake ambitious, mechanistically rigorous and clinically relevant research in an internationally competitive environment with exceptional core facilities, outstanding technical expertise, supportive supervision and comprehensive scientific and professional training. We welcome applications from exceptional students with backgrounds in cell biology, molecular/chromatin biology, bioinformatics, chemical biology and/or medicinal chemistry, and the project can be tailored to the skills and scientific interests of the successful candidate.