Wichmann, L. & Althaus, M. (2020) Evolution of epithelial sodium channels: current concepts and hypotheses. *American Journal of Physiology. Regulatory, Integrative and Comparative Physiology*. [Online] 319 (4), R387 R400. Available from: doi:10.1152/ajpregu.00144.2020.

Wickert, M. et al. (2018) The F238L Point Mutation in the Cannabinoid Type 1 Receptor Enhances Basal Endocytosis via Lipid Rafts. *Frontiers in Molecular Neuroscience*. [Online] 11. Available from: https://www.frontiersin.org/articles/10.3389/fnmol.2018.00230 [Accessed: 22 June 2023].

Zou, S. & Kumar, U. (2018) Cannabinoid Receptors and the Endocannabinoid System: Signaling and Function in the Central Nervous System. *International Journal of Molecular Sciences*. [Online] 19 (3), 833. Available from: doi:10.3390/ijms19030833.

Additional costs

There are no additional costs to this project, as this is an *in silico* only project. However, it is anticipated that the successful candidate invests in a high-specification computer, which will be essential to run CPU-intensive experiments.

Application Process

To begin the application process please go to https://www.worcester.ac.uk/courses/human-biology-mphilphd

so please select the relevant application link. On the application form, please make it clear that you are applying for one of our advertised projects so we can di5cup canitanr7i5cup ce t..9

The University hence focuses its research around five high-level challenges facing society, locally, nationally and globally:

- Human Health and Wellbeing
- Sustainable Futures
- Digital Innovation
- Culture, Identity and Social Exclusion
- Professional Education

The success of our research is reflected in our continuous improvement in external research assessment processes. In the most recent Research Excellence Framework, REF 2021, the University saw a near 50% increase in the scale of its research and

most improved university in terms of Research Power, a combination of scale and quality.

Research Degrees at Worcester
Our research students are central to our overall mission for research. They are working at the cutting edge of their disciplines and driving forward the quality of our research whilst enriching our research culture. We are looking to increase our research student numbers as a strategic imperative.

Our commitment to our students is reflected in the results of the Postgraduate Research Experience Survey 2023 in which we ranked 3rd for overall research student satisfaction nationally. Key to our success in his area is the Research School, a focal point for all our research students.

It provides:

- day-to-day support for our students, both administrative and practical, through our dedicated team
- a Research Student Study Space with both PCs and laptop docking station
- a comprehensive Researcher Development Programme for students and their supervisors
- a programme of student-led conferences and seminars

Research Group

Worcester Biomedical Research Group
The Worcester Biomedical Research Group (WBRG) aims to promote multidisciplinary Biomedical Science research at the University of Worcester and fosters collaborations between staff (cross-institute), students and local health / industrial organisations.

Building sustainable societies through research into disease prevention, medical treatment and diagnostics, lies at the heart of the WBRG research ethos. We aim to achieve this goal through basic and translational Biomedical Research with particular focus on cancer, cardiovascular disease and neurodegeneration.

Widening Participation:
As part of its mission statement the University is committed to widening participation for its higher degrees. Although most candidates will have an undergraduate and/or a Masters degree, the University is happy to accept applications from candidates with