**Summary information**

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| Presenter name: |  |
| Pronouns: |  |
| Institution: |  |
| Career stage: | Student/ECR/Academic/Industry/Other\_\_\_\_\_\_ |
| Talk title: |  |
| Theme 1: |  |
| Theme 2: |  |
| Preferred presentation type: | Poster/Lightning talk/Full presentation |
| Are you a student and want to be considered for one of the GSA awards? | Yes/No |
| Do you identify as indigenous? | Yes/No/Prefer not to say |
| Do you identify as a member of the LGBTQI+ community? | Yes/No/Prefer not to say |

**Investigating the molecular mechanisms underlying inherited traits**

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This research project delves into the intricate molecular mechanisms governing inherited traits, without making any specific claims about genetics. Through a comprehensive exploration of genomic data and experimental methodologies, the study seeks to elucidate the complex interplay between genetic factors and environmental influences. By employing cutting-edge techniques such as genome sequencing and bioinformatics analyses, the project aims to unravel patterns and associations within genetic data sets, contributing to a deeper understanding of hereditary phenomena. Furthermore, the research endeavors to investigate epigenetic modifications and their role in modulating gene expression patterns across different physiological conditions. Insights gained from this study hold promise for shedding light on fundamental biological processes without making any assertions about genetics, and may have implications for diverse fields including medicine, agriculture, and evolutionary biology.

Maximum of 200 words