**UNIVERSITY OF CAPE TOWN COMPUTATIONAL BIOLOGY DIVISION**

**Bioinformatics Support Request**

Please provide us with more information on your request for support. Complete the form as comprehensively as possible, and please indicate where there is still uncertainty.

**Please note, the earlier we are involved the better – for example, it would be better for us to be involved during the study design and even grant application stage**.

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| **CONTACT DETAILS** |
| Date of request | 3rd Feb 2022 |
| Name | Amy Mendham |
| Email address | amy.mendham@uct.ac.za |
| Research Group/Department | Division of physiological sciences  |
| Faculty | Health Sciences |
| IF student, name & email of supervisor | NA |

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| **PROJECT DETAILS** |
| 1. What is the scientific question? |
| To be finalized – see objective at the bottom |
| 2. Who are the partners on the project? |
| To be finalised |
| 3. What type of collaboration with CBIO is expected? For a project that is done as collaboration or for a fee, we will put the agreement in writing. |
| This is for a grant application. Collaboration is ideal, but if this is not possible, I will need to ensure budgeting  |
| 4. Are there any ethical issues we should be aware of? |
| No |
| 5. How much work is expected from CBIO and when? |
| This is what we need to discuss |
| 6. What type of data will be generated (e.g. sequencing, genotyping, expression, etc.) and what technology platform will be used? |
| RNA sequencing  |
| 7. When do you expect the data? Does it need to be transferred from somewhere else? |
| Need to discuss |
| 8. How large will the data be? How long does it need to stored for, and have you made arrangements for storage?  |
| Need to discuss |
| 9. What bioinformatics analysis needs to be done? Which tools are required? |
| Need to discuss |
| 10. If a collaborative model is being used, what papers are envisaged and who will the authors be? |
| Need to discuss |
| 11. Can we add a short description and objective of the project to the CBIO website? |
| We propose three time points across a women’s life course where alterations in fat distribution are evident and may be further exacerbated in people living with HIV. These alterations relate to the influence of hormonal regulation on adipose tissue redistribution from the gynoid to android region, which can have profound effects on subcutaneous adipose tissue biology and subsequent metabolic health. **My objective is to investigate** **the role of HIV and ageing in adipose tissue biology and its relationship with hormonal regulation, fat distribution, and subsequent metabolic health in African women, compared to women without HIV.** |

**PLEASE FORWARD THE COMPLETED FORM TO:**

Nicola.mulder@uct.ac.za