



Bioengineering for African Challenges:

A symposium on practical applications in synthetic biology



Friday 24 February, Encore Complex
1217 Stanza Bopape Street, Hatfield



Synthetic biology and open-source applied biology tools that are pragmatic, safe and cost-effective have the potential to stimulate bioeconomic growth and address African challenges in healthcare, agriculture, education and the environment. In this free and open symposium, several leading international experts from the UK and Africa discuss the latest developments in synthetic biology, bioengineering and DIY biology, practical opportunities for its deployment in Africa, and their potential as training tools for students and future innovators. Academics, postgraduate students, entrepreneurs, industry, NGOs and scientific council representatives in the biological, health and veterinary sciences, engineering and biomanufacturing are encouraged to attend. The symposium is supported by the Global Challenges Research Fund (GCRF), a £1.5bn UK Research Council fund dedicated to challenge-driven research support in developing countries.

- 08:30 Registration
- 09:00 Welcome and introduction to the Global Challenges Research Fund – **Dr. Steven Hussey & Prof. Jim Haseloff**
- 09:15 Introduction to the Bioeconomy - **DST, Prof. Zander Myburg**
- 09:30 Reusable DNA parts and modular assembly - **Dr. Nicola Patron**
- 09:45 Rapid prototyping and engineering of plant-based natural products - **Prof. Anne Osbourn**
- 10:00 **Panel Discussion:** Practical applications for Africa
- 11:00 Tea and coffee break
- 11:30 Cell-free expression systems - **Dr. Fernán Federici**
- 11:45 Africa-UK training - **Ms. Carol Ibe**
- 12:00 Open tools for synthetic biology – **Dr. Jenny Molloy**
- 12:15 **Panel Discussion:** Shared training and education resources for Africa and UK
- 13:15 Wrap up
- 13:30 Lunch

Click [here](#) to register



Decoding Living Systems



UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
YUNIBESITHI YA PRETORIA

