



Communication and Marketing Department
Isebe loThungelwano neNtengiso
Kommunikasie en Bemerkingsdepartement

Private Bag X3, Rondebosch 7701, South Africa
Welgelegen House, Chapel Road Extension, Rosebank, Cape Town
Tel: +27 (0) 21 650 5427/5428/5674 Fax: +27 (0) 21 650 5628

www.uct.ac.za

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UCT student receives L'Oréal-UNESCO For Women in Science Doctoral fellowship

University of Cape Town (UCT) PhD candidate, Lerato Hlaka, received a PhD fellowship at the L'Oréal-UNESCO For Women in Science programme ceremony in Nairobi, Kenya last night, 6 December 2018.

Only 12 PhD fellowships were given to young female scientists from across Africa this year.

Hlaka's research, in the Department of Pathology, Division of Immunology, involves identifying potential drug-targets for pathogen and host-directed therapy for tuberculosis. The work that was honoured last night is in collaboration with Professor Colin Suckling and Dr Katherine Carter from the University of Strathclyde and Dr Fraser Scott from the University of Huddersfield. It involves identifying the anti-mycobacterial activity of minor groove binder compounds as a foundation for the development of a novel inhalable drug formulation for the treatment of tuberculosis.

This could potentially lead to the development of an effective anti-TB formulation, a much-needed intervention in a country with one of the highest burdens of TB globally.

"The high incidences of drug-resistant tuberculosis propel an urgent need for the development of new effective drugs. Understanding the different levels of host-pathogen interactions may lead to identification of potential drug targets that may result in the development of novel shortened effective drug regimen for TB therapy. I am grateful to my supervisors, Associate Professor Reto Guler, Professor Frank Brombacher and Dr Mumin Ozturk, and our collaborator Dr Fraser Scott for providing me the opportunity to be part of this work," said Hlaka.

She added: "I am also grateful for the assistance and support of the team that is working with me on this project, Mr Michael Rosslee, Dr Santosh Kumar, Mr Nathan Kieswetter and Mr Julius Chia. I'm also thankful to the South African Medical Research Council (SAMRC) for supporting my PhD studies. It was an honour for our work to be selected for a fellowship by the L'Oréal-UNESCO For Women in Science in the sub-Saharan region."

With a Bachelor of Science Honours in Biological Sciences (Cell Biology) and a master's degree in Biological Sciences (Parasitology) from the University of KwaZulu-Natal, Hlaka has already published seven research papers, two of which are on the awarded subject. This is also not the first recognition for her – to mention a few, in 2017 she was named as one of the *Mail and Guardian's* Top 200 Young South Africans. Also in 2017, her first co-authored publication (Hlaka et al., 2017, *Journal of Antimicrobial Chemotherapy*) received second prize in the Institute of Infectious Diseases and Molecular Medicine (IDM) postgraduate students' publication awards.

Recently she received the Bill & Melinda Gates Foundation Global Health travel award to attend the 2018 Keystone symposium on 21st Century Drug Discovery and Development for Global Health, which provided her an opportunity to attend a joint plenary session with the 2018 Global Grand Challenges meeting in Berlin, Germany.

Women are still under-represented in science, and make up barely 28% of researchers. The L'Oréal-UNESCO For Women in Science programme has recognised outstanding female scientists for the last 20 years. The purpose is to support and recognise accomplished women researchers, to encourage more young women to enter the profession and to assist them once their careers are in progress.

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Issued by: UCT Communication and Marketing Department

Aamirah Sondag

Media Liaison and Monitoring Officer
Communication and Marketing Department
University of Cape Town
Rondebosch
Tel: (021) 650 5427
Cell: (076) 947 6071

Email: aamirah.sondag@uct.ac.za

Website: www.uct.ac.za