

University of Pretoria
Institute for Sustainable
Malaria Control (UP ISMC)



UNIVERSITEIT VAN PRETORIA
UNIVERSITY OF PRETORIA
YUNIBESITHI YA PRETORIA

Make today matter

www.up.ac.za



UP ISMC

UNIVERSITY OF PRETORIA
INSTITUTE FOR SUSTAINABLE MALARIA CONTROL

Towards Malaria Elimination



INTRODUCTION

Malaria, a complex parasitic disease confined mostly to tropical areas and transmitted by female *Anopheles* mosquitoes, still kills hundreds of thousands of people annually. The disease is the result of a complex interplay between three biological systems each with its own complex life-cycle, environment, habits and pathogenesis profiles. Climatic changes and/or population movements may favour malaria transmission. **To attain malaria elimination**, integrated, innovative, collaborative and multi-partner research is needed for continued development of new technologies and strategies as sustainable malaria control methods. Research must translate into policy to have actual impact in affected areas and communities. Simultaneously, capacity needs to be built in malaria control programmes of endemic countries, and elimination strategies need to be strengthened.

VISION

To be a nationally and internationally known transdisciplinary research institute, making a substantial contribution towards the creation of a malaria-free Africa by:

- Employing sustainable and environmentally safe malaria parasite and vector control technologies;
- Establishing integrated vector management strategies;
- Ensuring effective malaria case management; and
- Promoting health education in affected populations.

RESEARCH

The Institute is a fully integrated, transdisciplinary and interfaculty initiative. The experts involved have established research programmes aimed at malaria elimination.

Community involvement and education are addressed as part of health promotion with the aim to change community behaviour and practice.

SERVICES AND COURSES

- Malaria Vector Insectary and Laboratory
 - Insecticide and repellent testing, and insecticide resistance testing.
- Malaria Parasite Molecular Laboratory
 - Screening of compounds that kill all parasite life stages, and identify druggable targets and processes in parasites.
- Leadership & management capacity building course for control programmes.
- Vector surveillance and control short course

AFFILIATIONS

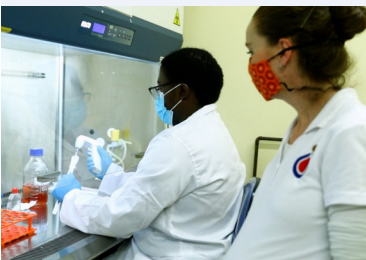
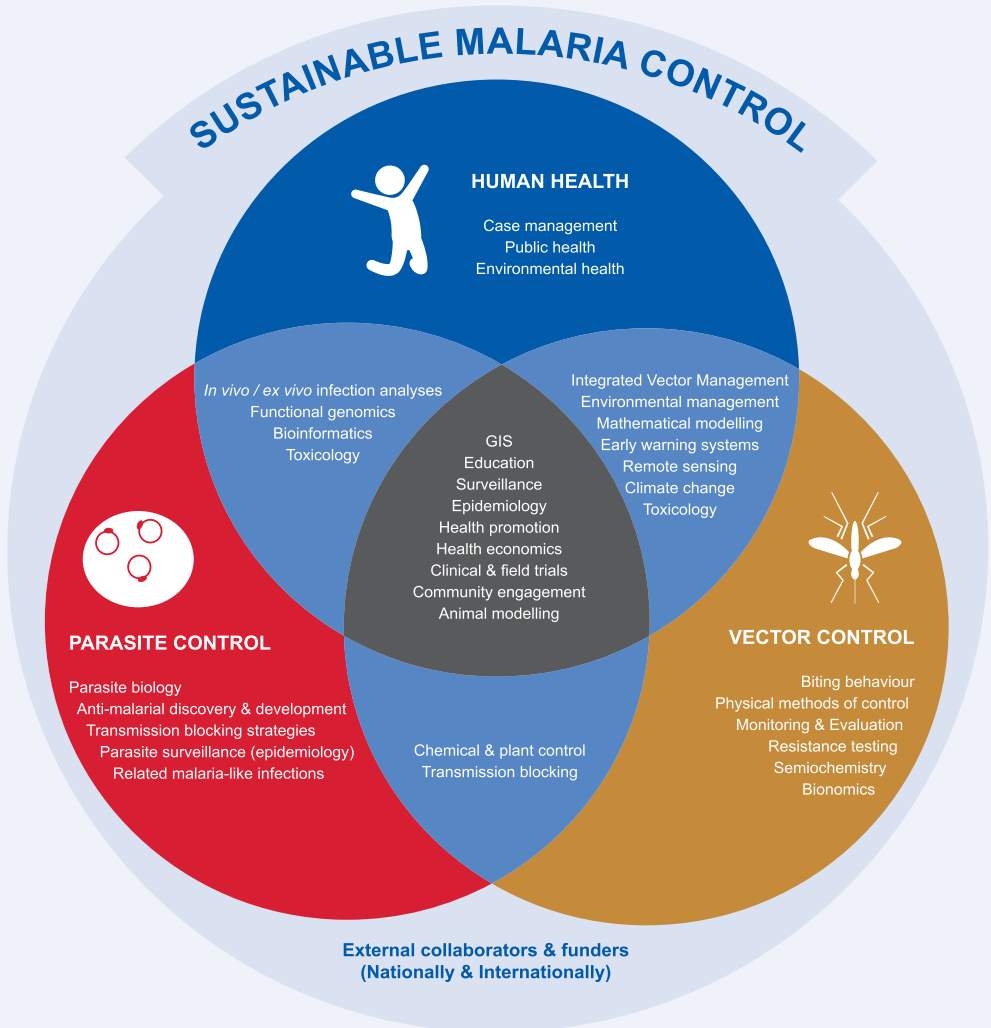
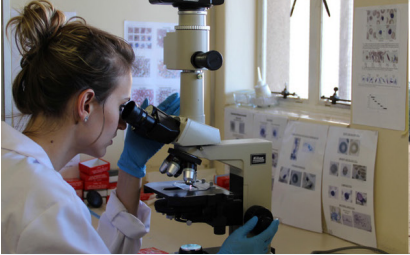
Access to a global partner and stakeholder network with MOUs and active collaborations, including tertiary education and research institutions, research consortia, big pharma, industry, country ministries of health, and more...

AWARDS

- SAMRC Collaborating Centre for Malaria Research
- DSI/NRF SARCHI Chair in Sustainable Malaria Control
- NRF Community of Practice in Malaria Elimination
- NSTF Award - 2018 - Communication

FOCUS

The UP ISMC takes an integrated approach towards safer malaria control and management, with research in three cross-cutting clusters.



The A,B,C,D OF MALARIA PREVENTION

**A**

AWARENESS

Be **AWARE** of the risk and symptoms

**B**

BITE PREVENTION

Avoid being **BITTEN** by mosquitoes (from dusk till dawn)

**C**

CHEMOPROPHYLAXIS

Take **CHEMOPROPHYLAXIS** (antimalaria medication) if prescribed

**D**

DIAGNOSIS

Early **DIAGNOSIS** and Rapid Treatment

MILD/MODERATE**SYMPTOMS****SEVERE**

DO NOT IGNORE SYMPTOMS. GO STRAIGHT TO A DOCTOR



FEVER

SWEATING

HEADACHE

MUSCLE ACHES

FATIGUE

SHAKING

VOMITING

DIARRHOEA

FATAL IF NOT TREATED

EARLY DIAGNOSIS and RAPID TREATMENT prevent deaths

Contact us:

Prof Tiaan de Jager

Director: UP ISMC

Tel: 27 (0)12 319 2191

Email: tiaan.dejager@up.ac.za

Dr Taneshka Kruger

Project Manager: UP ISMC

Tel: 27 (0)12 319 2381

Email: taneshka.kruger@up.ac.za



UP End Malaria



www.malaria.up.ac.za