

TECHNOLOGIES FOR SUSTAINABLE CROP INDUSTRIES IN SEMI-ARID REGIONS

Focus Areas:

- Production technologies for managing crop environments
- Genetic technologies for crop improvement
- Technologies for adding value to and improving crop production quality and value adding

Director: Prof Wijnand Swart

WATER MANAGEMENT IN WATER-SCARCE AREAS

Focus Areas:

- Management of aquatic ecosystems in water-scarce areas
- Climate change and variability in water-scarce areas
- Managing water scarcity in agriculture
- Optimal water-use for development in water-scarce areas

Director: Prof Maitland Seaman

MATERIALS AND NANOSCIENCES

Focus Areas:

- Nano solid state materials
- Petrochemicals
- Polymers

Coordinator: Prof André Roodt

STRATEGIC ACADEMIC CLUSTERS

ADVANCED BIOMOLECULAR RESEARCH

Focus Areas:

- High throughput biology
- Bioinformatics / Computational biology
- Novel drug discovery
- Advanced cloning systems

Director: Prof Hugh Patterson

NEW FRONTIERS IN POVERTY REDUCTION AND SUSTAINABLE DEVELOPMENT

Focus Areas:

- Health, wellness and community resilience
- Economic development
- Human settlements
- Rural development

Director: Prof Doreen Atkinson