

# AGRICULTURAL RESEARCH COUNCIL

## Animal Production

Research Focus Area	Area of expertise	Commodity	Core activities	Contact	E-Mail	Telephone number	Location
Animal Production	Beef Cattle Improvement	Beef Cattle	* Performance information, breeding values & value added management information.	<a href="#">Dr Ben Greyling</a>	<a href="mailto:Ben@arc.agric.za">Ben@arc.agric.za</a>	(012) 627 9052	Irene, Pretoria
Animal Production	Dairy Cattle Improvement	Dairy Cattle	* Performance information, breeding values & value added management information.	<a href="#">Dr Jakkie du Toit</a>	<a href="mailto:DuToitJ@arc.agric.za">DuToitJ@arc.agric.za</a>	(021) 809 3515	Irene, Pretoria
Animal Production	Aquaculture	Fisheries	* Project planning, management & implementation of community mobilization; * Identify and evaluate opportunities in liaison with local government and community structures.	<a href="#">Dr Mary-Jane Thaela-Chimuka</a>	<a href="mailto:ThaelaMJ@arc.agric.za">ThaelaMJ@arc.agric.za</a>	(012) 672 9316	Irene, Pretoria
Animal Production	Planted Pastures	Forage	* Forage production and management; * Forage plant breeding and evaluation; * Screening and maintenance of National Forage Genebank.	<a href="#">Dr Julius Tjelele</a>	<a href="mailto:JTjelele@arc.agric.za">JTjelele@arc.agric.za</a>	(012) 672 9314	Irene, Pretoria
Animal Production	Animal Breeding	Livestock	* Operation models for national and genetic evaluation systems of livestock; * Reproduction, growth & carcass traits; * Applying animal breeding to animal production systems; * Routine estimation of breeding values.	<a href="#">Prof Linky Makgahlela</a>	<a href="mailto:MMakgahlela@arc.agric.za">MMakgahlela@arc.agric.za</a>	(012) 672 9282	Irene, Pretoria
Animal Production	Animal Genetics/Genomics	Livestock	* DNA profiling for parentage analysis; * Animal forensics; * Testing for genetic defects & advantageous genetic characteristics; * Genetic structure and diversity of livestock & game; * Identification of useful genes in livestock.	<a href="#">Dr Pranisha Soma</a>	<a href="mailto:Pranisha@arc.agric.za">Pranisha@arc.agric.za</a>	(012) 672 9218	Irene, Pretoria
Animal Production	Animal Genetics/Genomics	Livestock	*Cryo-preservation technology; * Computer Aided Sperm Analysis(CASA) system; * <i>In-situ</i> and <i>ex-situ</i> conservation of genetic resources; * <i>In vitro</i> and <i>in vivo</i> embryo production, multiple ovulation, embryo transfer and splitting; * Oogenesis, spermatogenesis, nuclear transfer and intracytoplasmic sperm injection; * Genetic characterization of indigenous livestock and poultry.	<a href="#">Prof Linky Makgahlela</a>	<a href="mailto:MMakgahlela@arc.agric.za">MMakgahlela@arc.agric.za</a>	(012) 672 9282	Irene, Pretoria
Animal Production	Meat Science and Technology	Meat Quality	* <a href="#">Meat Production and Slaughter Technology</a> processes; * <a href="#">Biochemistry</a> - biological processes and mechanisms; - meat tenderness, texture, colour & moisture characteristics. * <a href="#">Meat Technology</a> - processed meat product yield and quality; - development on products. * <a href="#">Food safety and Product evaluation</a> - food quality, shelf life, nutritional value & acceptability; - chemical, nutrient compositional & micro-biological analyses; - <a href="#">sensory analyses &amp; food composition</a> ; - compilation of food composition tables. * <a href="#">Gastro-intestinal microbiology and bio-technology</a> - development of additives and supplement.	<a href="#">Dr Phillip Strydom</a>	<a href="mailto:Pstrydom@arc.agric.za">Pstrydom@arc.agric.za</a>	(012) 672 9340	Irene, Pretoria
Animal Production	Rangeland ecology/management	Rangelands	<i>Rangeland Ecology</i> * Ecology of Biomes * Savanna Ecosystem dynamics * Climate change & Ecosystem services * Sustainable utilization of game ranches & protected areas <i>Rangeland management, monitoring &amp; restoring</i>	<a href="#">Dr Julius Tjelele</a>	<a href="mailto:JTjelele@arc.agric.za">JTjelele@arc.agric.za</a>	(012) 672 9314	Irene, Pretoria
Animal Production	Animal Nutrition	Ruminants	* Conventional and unconventional feeding systems; * Evaluation of feed additives that support efficiency and health; * Nutritional requirements; * Optimization of feed intake & digestive efficiency; * Evaluation of silage inoculants; * Preservation of forages.	<a href="#">Dr Douglas Nkosi</a>	<a href="mailto:DNkosi@arc.agric.za">DNkosi@arc.agric.za</a>	(012) 672 9300	Irene, Pretoria