HR191



NOTES

- Forms must be downloaded from the UCT website: <u>https://forms.uct.ac.za/forms.htm</u>
- This form serves as a template for the writing of position descriptions.
- A copy of this form is kept by the line manager and the position holder.

POSITION DETAILS Position title Investigator (AMR Biology) Job title (HR Business Partner to provide) **PC10** 2018 Position grade (if known) Date last graded (if known) Science/DDD Academic faculty / PASS department Academic department / PASS unit H3D Division / section AMR Biology Date of compilation 04 December 2024

ORGANOGRAM

(Adjust as necessary. Include line manager, line manager's manager, all subordinates and colleagues. Include position grades)



PURPOSE

The main purpose of this position is to be part of an interdisciplinary translational research team discovering and developing innovative, lifesaving medicines in the antimicrobial resistance (AMR) field.

Accountabilities and responsibilities of the Investigator include:

Scientific & Research Impact

- Design and perform experimental work independently and engage in complex research requiring highly specific scientific knowledge related to to Gram -/+ bacteria involving ESKAPE pathogens (*Enterobacter cloacae, Staphylococcus aureus, Klebsiella pneumoniae, Acinetobacter baumannii, Pseudomonas aeruginosa, Escherichia coli*) and other locally relevant bacterial pathogens
- Consistently analyze, evaluate and interpret complex data and results from various phenotypic or target-based screens
- Identify key scientific questions and develop/propose innovative solutions (experiments) to advance drug discovery research in
 accordance with overall program goals and priorities and in collaboration with academic groups at UCT, where appropriate
- Understand how specific discovery programs fit into overall scientific goals and priorities at H3D
- Help train junior members of the team (new postdoctoral researchers and technician-level members) in data interpretation and experimental design and actively coach/mentor them
- Provide input into scientific presentations for H3D decision boards and external funders/collaborators and present results internally and to various UCT groups as needed
- Contribute towards final reports and internal/external publications.

Scientific/Technical & Operational Know-how

- Understand principles underlying relevant technologies and protocols related to the Microbiology and Molecular Biology of ESKAPE pathogens and demonstrate expertise in Microbiology and proficiency with full range of techniques
- Coordinate use of equipment such as ViaFlo or Hamilton Robotics
- Develop a thorough knowledge of drug discovery in the field of ESKAPE biology including the scientific background and literature
- Understand how own objectives/scientific experiments fit into overall, long-term program goals
- Propose ideas for H3D-wide technology or research operations projects and help with and/or lead their implementation
- Have a working knowledge of all relevant research policies and procedures, including safety, regulatory and other research guidelines; complete all required compliance trainings
- Identify and report unsafe equipment, conditions and practices so that they may be corrected prior to an incident
- Actively participate in laboratory upkeep and health and safety practices

Decision Making

- Independently conceive, execute and interpret a complete range of experiments to advance discovery research in line with program timelines and goals
- Provide input into go/no-go decisions or alternative approaches for discovery or technology programs
- Execute day-to-day work in line with team and H3D's overall mission, priorities and decisions, with input from supervisor/scientific mentor, as needed

Desired Behaviours

Apply H3D Values & Behaviours with a specific focus on:

- Contribute own ideas and explain perspective of AMR research to the team to enhance team's understanding of drug
 discovery and advance drug discovery efforts; apply non-traditional ideas to problem-solving as needed; help create room for
 everybody on the team to do the same
- Interact with others in a positive/collaborative manner and challenge other's ideas and help resolve conflicts in a constructive manner
- Fully align behind H3D's mission and leadership decisions and contribute to/understand overall program goals to prioritize own scientific work towards accomplishing these goals
- Strive towards working in a team-based, matrix organization in which all research activities are targeted towards overall H3D portfolio goals

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MINIMUM REQUIREMENTS						
Minimum qualifications	PhD degree in Life Sciences/Microbiology/Biochemistry/Biotechnology/Cell Biology or related field involving ESKAPE pathogens. Strong publication record					
Minimum experience	2 or more years post-PhD industrial or academic experience in a drug discovery or related research laboratory					
(type and years)	Up-to-date on laboratory technologies and strong bench experience					
	Comfortable working in a matrix-based organizational structure					
Skills	Established skills in microbiology, molecular biology and/or bacterial genetics Up-to-date on laboratory technologies and strong bench experience Excellent oral and written communication skills Effective team building and teamwork skills; Detail-oriented with the ability to identify and implement creative solutions					
Knowledge	Good understanding of bacterial biology					
Professional registration or license requirements	NA					
Other requirements (If the position requires the handling of cash or finances, other requirements must include 'Ability to handle cash or finances'.)	NA					
Competencies (Refer to <u>UCT Competency</u> <u>Framework</u>)	Competence	Level	Competence	Level		
	Excellent written and oral communication skills	2	Teamwork/collaboration	2		
	Extensive literature research skills	2	Astute scientific inquiry related to drug discovery and thorough knowledge of scientific literature in ESKAPE pathogen biology	2		
	Good interpersonal skills	2	Good laboratory safety awareness and practice	2		
	Working knowledge in experimental design and data interpretation	2				

SCOPE OF RESPONSIBILITY Functions responsible for Design and troubleshooting of existing and novel experiments Amount and kind of supervision received Regular supervision by Senior Investigator/Chief Investigator Amount and kind of supervision exercised May be required to supervise more junior staff Decisions which can be made Laboratory safety, SOPs and suggesting alternative methods Decisions which must be referred Financial decisions, purchasing decisions, organizational decisions, HR decisions etc.

CONTACTS AND RELATIONSHIPS				
Internal to UCT	Financial decisions, purchasing decisions, organizational decisions, HR decisions etc.			
External to UCT	Sales reps, academic customers and collaborators			

AGREED BY							
	PRINT NAME	SIGNATURE	CONTACT NO.	DATE			
Position Holder							
Direct Line Manager/Supervisor	Dr Nicole Cardoso	Hawado	0766774189	04 December 2024			

Area Line Manager	Ayesha Banderker	Barraceter	x1438	04.12.2024
HOD	Kelly Chibale	all	x5495	04.12.2024
Dean / ED				
HR Business Partner				