



Travis Basson

Molecular Parasitologist

Date of Birth 24.08.1990
Married, 2 Children
South African (B Swiss Permit)

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EXPERTISE

- BSL 2/2.5 laboratory work
- Flow cytometry
- High Content Microscopy
- CRISPR/Cas9 genome editing
- CHIP-qPCR
- Cell culture
- Nucleic acid research
- Malaria Cell Biology
- Epigenetics
- Genetics
- Molecular Biology Techniques

PERSONAL SKILLS

- Problem-solving
- Attention to detail, analytical
- Flexible/Shift work orientated
- Team player with positive and can-do attitude
- Working in multicultural, multinational teams
- Inquisitive & Goal orientated
- Health & Safety and Quality control

PROFESSIONAL PROFILE

I am a dedicated, focused Molecular Parasitologist with 7 years practical research experience in academic laboratory environments. I am able to form well thought-out hypotheses, plan experiments around given hypotheses, and perform experiments to a high level of accuracy and quality. My attention to detail and persistence allows me to analysis data sets effectively, and respond to results in order to continue the work in the same direction, or when necessary, to re-design and optimise experimental protocols until results are attained, and deadlines met.

Working on research projects in malaria drug discovery, endocytosis, protein trafficking, epigenetics and gene regulation in malaria parasites has allowed me to build and develop a vast and diverse set of skills in molecular biology and parasitology.

I offer experience of working in Bio Safety Level 2 and 2.5 laboratories performing cell culture of various lines. I have Flow Cytometry experience as well as basic FACS training. My experience in fluorescence, confocal and high content microscopy are of added advantage. As a team player, adapted and open to shift work that places emphases of health, safety and quality control, I am ideally suited to the position of Laboratory Technician at ST Switzerland.

WORK EXPERIENCE

01/2016 – 05/2021

Swiss Tropical and Public Health Institute
Basel, Switzerland.

PhD Student

Responsibilities

- Planning designing, performing and optimising experiments for my individual Ph.D projects while contributing to the goals of a large Malaria Epigenetics project funded by the Swiss Science Foundation
- Take part in semester courses/exams at the University of Basel
- Contributing 20% of my work hours to the operational management of the laboratory as well as tasks at the institute
- Taking part in the training of new laboratory members
- Running block courses for Bachelor and Master of Sciences students from the University of Basel

Key Achievements

- Working at the forefront of CRISPR/Cas9-based genome editing in *P. falciparum*
- Making a novel contributions to the understanding of sexual commitment in malaria parasites
- Setting up projects, running and assessing B.Sc students from the University of Basel
- Presenting my research at several conferences both in Switzerland and internationally



LANGUAGES

- English – native
- German - basic

EDUCATION

- **2016 – 2020 Ph.D degree: Cell Biology**
University of Basel – Switzerland
(To be completed)
- **2013 – 2015 M.Sc degree: Biochemistry**
Rhodes University – South Africa
- **2012 B.Sc Honours degree: Biochemistry**
Rhodes University – South Africa
- **2009 – 2011 B.Sc degree: Biochemistry & Microbiology**
Rhodes University – South Africa

TRAININGS & COURSES

- **2019 – Video Journalism for Scientists**
University of Basel – Switzerland
- **2019 – Science and the mass media in the digital age**
University of Basel – Switzerland
- **2017 – Time management**
University of Basel – Switzerland
- **2016 – Writing in the Natural Sciences**
University of Basel – Switzerland
- **2012 –Certificate In Bioentrepreneurship:**
CE at University of Pretoria – South Africa

IT SKILLS

- Microsoft Office, ZEN, ImageJ, GraphPad Prism, Adobe Photoshop, Adobe Illustrator, Adobe Premier Pro, IGV, StepOne

2014 – 2015

Tutorlink Grahamstown
Grahamstown, South Africa

Physical Sciences and Mathematics Private Tutor

Responsibilities

- Private tuition of two Grade 11 and one Grade 12 students
- Prepared study material and lesson plans in Mathematics and Physical Sciences

Key Achievements

- Helped students to improve their grades significantly
- Improved one student's Physical Sciences grade up to an A (5) which helped them get a place at University to study a B.Sc

2013 – 2015

Rhodes University
Grahamstown, South Africa

University Tutor and Demonstrator

Responsibilities

- Ensuring through teaching and tutoring that all my students can perform all experiments, correctly and accurately report their data

Key Achievements

- All students passed their semesters while under my tutelage
- Developing a passion for laboratory research in young students

2011 – 2012

Rhodes University
Grahamstown, South Africa

Sub Warden of Winchester House Men's Residence

Responsibilities

- Working directly with the Warden of the Residence to ensure the smooth and successful running of the house (houses 53 men)
- Perform various administrative roles
- Facilitate residence maintenance

Key Achievements

- Worked well with the warden, security to fulfil all tasks timeously and effectively
- Usually a 1 year contract, I secured a renewal for a second year
- Built a strong working relationship with the warden who was also a personal and academic mentor

CONFERENCES & RESEARCH VISITS

Conferences

2019	MPM Woodshole, USA
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2017	Basel Life, Basel, Switzerland
2017	BioMalPar, Heidelberg, Germany
2014	MSSA 52 nd Annual Conference, Stellenbosch, South Africa
2013	ICGEB: Global infectious disease, Cape Town, South Africa

Research Visits

2014	Stellenbosch University, South Africa. Supervisor: Prof. Marina Rautenbach and Dr. Ben Loos.
2014	Philipps-Universität Marburg, Germany. Supervisor: Prof. Dr. Jude Przyborski.