

Tricia Naicker

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Nationality: South African

Date of birth: 16 January 1985

Current Position **Associate Professor and Academic Leader** College of Health Sciences, Discipline of Pharmaceutical Science, University of KwaZulu Natal.

Senior Lecturer-August 2013 until December 2016

Tertiary Education

PostDoctoral Aarhus University, Denmark (August 2012 - August 2013)
PostDoctoral University of KwaZulu Natal (January - July 2012)
PhD University of KwaZulu Natal Pharmaceutical Chemistry (2009 - 2011)
MSc University of KwaZulu Natal Chemistry (2007-2008) *cum laude*
BSc Honours University of KwaZulu Natal Chemistry (2006)
BSc University of KwaZulu Natal Pure and Applied Chemistry (2003-2005)

DoHET Accredited Publications to date

<http://orcid.org/0000-0002-7134-6258> **ResearcherID:** D-1257-2014

H-index: 12 (Google scholar Nov 2017)

RG Score:34 (Research Gate-Score is >94% of ResearchGate members Oct 2017)¹⁻⁷³

- (1) Boyle, G. A.; Govender, T.; Kruger, H. G.; Maguire, G. E. M.; Naicker, T.: (S)-(+)-2-Formamido-4-methyl-penta-noic acid. *Acta Crystallographica Section E: Structure Reports Online* **2007**, 63, o3445.
- (2) Boyle, G. A.; Govender, T.; Kruger, H. G.; Maguire, G. E. M.; Naicker, T.: NMR elucidation of a novel (S)-pentacyclo-undecane bis-(4-phenyloxazoline) ligand and related derivatives. *Magnetic Resonance in Chemistry* **2008**, 46, 1089-1095.
- (3) Boyle, G. A.; Govender, T.; Kruger, H. G.; Maguire, G. E. M.; Naicker, T.: NMR elucidation of some ligands derived from the pentacycloundecane skeleton. *Structural Chemistry* **2008**, 19, 429-434.
- (4) Arvidsson, P. I.; Govender, T.; Kruger, H. G.; Maguire, G. E. M.; Naicker, T.: Application of (S, S)-pentacycloundecane bis(4-phenyloxazoline) as a novel chiral ligand for catalysis of the asymmetric diels-alder reaction of cyclopentadiene with 3-acryloyl-2-oxazolidinone. *South African Journal of Chemistry* **2009**, 62, 60-66.
- (5) Boyle, G. A.; Govender, T.; Kruger, H. G.; Naicker, T.; Maguire, G. E. M.: The evaluation of novel camphor-derived pyridyl ligands as catalysts in the asymmetric diels-alder reaction of cyclopentadiene with 3-acryloyl-2-oxazolidinone. *South African Journal of Chemistry* **2009**, 62, 129-133.

(6) Naicker, T.; McKay, M.; Govender, T.; Kruger, H. G.; Maguire, G. E. M.: (1R,3S)-Methyl 2-benzyl-6,7-dimethoxy-1-phenyl-1,2,3,4- tetrahydroisoquinoline-3-carboxylate. *Acta Crystallographica Section E: Structure Reports Online* **2009**, 65, o3278.

(7) Naicker, T.; Govender, T.; Kruger, H. G.; Maguire, G. E. M.: (1R,3S)-Methyl 6,7-dimethoxy-1-(4-methoxyphenyl)-1,2,3,4- tetrahydroisoquinoline-3-carboxylate. *Acta Crystallographica Section E: Structure Reports Online* **2010**, 66.

(8) Naicker, T.; Govender, T.; Kruger, H. G.; Maguire, G. E. M.: {(1R,3S)-2-Benzyl-6,7-dimethoxy-1-phenyl-1,2,3,4-tetrahydroisoquinolin-3- yl}diphenylmethanol. *Acta Crystallographica Section E: Structure Reports Online* **2010**, 66.

(9) Naicker, T.; Petzold, K.; Singh, T.; Arvidsson, P. I.; Kruger, H. G.; Maguire, G. E. M.; Govender, T.: Novel tetrahydroisoquinoline based organocatalysts for asymmetric Diels-Alder reactions: Insight into the catalytic mode using ROESY NMR and DFT studies. *Tetrahedron Asymmetry* **2010**, 21, 2859-2867.

(10) Peters, B. K.; Chakka, S. K.; Naicker, T.; Maguire, G. E. M.; Kruger, H. G.; Andersson, P. G.; Govender, T.: Synthesis of tetrahydroisoquinoline-diamine ligands and their application in asymmetric transfer hydrogenation. *Tetrahedron Asymmetry* **2010**, 21, 679-687.

(11) Karpoomath, R.; Naicker, T.; Govender, T.; Kruger, H. G.; Maguire, G. E. M.: Benzyl 5-hydroxy-4-oxapenta-cyclo-[5.4.1.0 2,6.0 3,10.0 8,11]dodecane-3-carboxyl-ate. *Acta Crystallographica Section E: Structure Reports Online* **2011**, 67.

(12) Naicker, T.; Arvidsson, P. I.; Kruger, H. G.; Maguire, G. E. M.; Govender, T.: Tetrahydroisoquinoline-based N-oxides as chiral organocatalysts for the asymmetric allylation of aldehydes. *European Journal of Organic Chemistry* **2011**, 6923-6932.

(13) Naicker, T.; Govender, T.; Kruger, H. G.; Maguire, G. E. M.: (1R,3S)-N-Benzhydryl-2-benzyl-6,7-dimethoxy-1-phenyl-1,2,3, 4-tetrahydroisoquinoline-3-carbothioamide. *Acta Crystallographica Section E: Structure Reports Online* **2011**, 67.

(14) Naicker, T.; Govender, T.; Kruger, H. G.; Maguire, G. E. M.: (S)-Methyl 3-(3,4-dimethoxyphenyl)-2-[2-(diphenylphosphanyl)benzamido]- propanoate. *Acta Crystallographica Section E: Structure Reports Online* **2011**, 67.

(15) Naicker, T.; Govender, T.; Kruger, H. G.; Maguire, G. E. M.: (1S,3S)-Methyl 2-benzyl-6,7-dimethoxy-1-phenyl-1,2,3,4-tetrahydro- isoquinoline-3-carboxylate. *Acta Crystallographica Section E: Structure Reports Online* **2011**, 67.

(16) Naicker, T.; Govender, T.; Kruger, H. G.; Maguire, G. E. M.: (1S,3S)-Methyl 6,7-dimethoxy-1-phenyl-1,2,3,4-tetrahydro-isoquinoline-3- carboxyl-ate. *Acta Crystallographica Section E: Structure Reports Online* **2011**, 67.

(17) Naicker, T.; Govender, T.; Kruger, H. G.; Maguire, G. E. M.: 6,7-Dimethoxy-3-methoxycarbonyl-1-(2-methoxyphenyl)-3, 4-dihydro-isoquinoline 2-oxide. *Acta Crystallographica Section E: Structure Reports Online* **2011**, 67.

(18) Naicker, T.; Govender, T.; Kruger, H. G.; Maguire, G. E. M.: (S)-2-Benzyl-N-(2,6-diisopropylphenyl)-1,2,3,4-tetrahydroisoquinoline-3- carboxamide. *Acta Crystallographica Section E: Structure Reports Online* **2011**, 67.

- (19) Naicker, T.; Govender, T.; Kruger, H. G.; Maguire, G. E. M.: Methyl 1-Cyclohexyl-6,7-dimethoxy-3,4-dihydro-isoquinoline-3-carboxylate. *Acta Crystallographica Section E: Structure Reports Online* **2011**, 67.
- (20) Naicker, T.; Govender, T.; Kruger, H. G.; Maguire, G. E. M.: Optically active diaryl tetrahydro-isoquinoline derivatives. *Acta Crystallographica Section C: Crystal Structure Communications* **2011**, 67.
- (21) Naicker, T.; Govender, T.; Kruger, H. G.; Maguire, G. E. M.: (S)-N-Benzyl-2-methyl-1,2,3,4-tetrahydroisoquinoline-3-carboxamide. *Acta Crystallographica Section E: Structure Reports Online* **2011**, 67.
- (22) Naicker, T.; Govender, T.; Kruger, H. G.; Maguire, G. E. M.: (3S)-2-Benzyl-3-carboxy-1,2,3,4-tetrahydroisoquinolinium chloride monohydrate. *Acta Crystallographica Section E: Structure Reports Online* **2011**, 67.
- (23) Arvidsson, P. I.; Bose, P. P.; Naicker, T.: 6.11 Cyclopropanation Reactions. In *Comprehensive Chirality*, 2012; Vol. 6; pp 293-317.
- (24) Karpoomath, R.; Onajole, O. K.; Naicker, T.; Govender, T.; Maguire, G. E. M.; Kruger, H. G.: Synthesis and NMR elucidation of novel pentacycloundecane-derived peptides. *South African Journal of Chemistry* **2012**, 65, 108-114.
- (25) Naicker, T.; Arvidsson, P. I.; Kruger, H. G.; Maguire, G. E. M.; Govender, T.: Microwave-assisted synthesis of guanidine organocatalysts bearing a tetrahydroisoquinoline framework and their evaluation in Michael addition reactions. *European Journal of Organic Chemistry* **2012**, 3331-3337.
- (26) Naicker, T.; Chelopo, M.; Govender, T.; Kruger, H. G.; Maguire, G. E. M.: (S)-Benzyl 3-phenylcarbamoyl-1,2,3,4-tetrahydroisoquinoline-2-carboxylate. *Acta Crystallographica Section E: Structure Reports Online* **2012**, 68.
- (27) Naicker, T.; Govender, T.; Kruger, H. G.; Maguire, G. E. M.: (S)-methyl 2-benzamido-3-(3,4-dimethoxyphenyl)propanoate. *Acta Crystallographica Section E: Structure Reports Online* **2012**, 68.
- (28) Shiri, M.; Zolfigol, M. A.; Pirveysian, M.; Ayazi-Nasrabadi, R.; Kruger, H. G.; Naicker, T.; Mohammadpoor-Baltork, I.: A new and facile access to the 2-(indol-3-yl)-3-nitriloquinolines based on Friedländer annulations. *Tetrahedron* **2012**, 68, 6059-6064.
- (29) Soleymanifard, B.; Heravi, M. M.; Shiri, M.; Zolfigol, M. A.; Rafiee, M.; Kruger, H. G.; Naicker, T.; Rasekhmanesh, F.: Synthesis of arylidenepyruvic amide derivatives via Ugi-four component condensation. *Tetrahedron Letters* **2012**, 53, 3546-3549.
- (30) Dell'Amico, L.; Albrecht, L.; Naicker, T.; Poulsen, P. H.; Jørgensen, K. A.: Beyond classical reactivity patterns: Shifting from 1,4- to 1,6-additions in regio- and enantioselective organocatalyzed vinylogous reactions of olefinic lactones with enals and 2,4-dienals. *Journal of the American Chemical Society* **2013**, 135, 8063-8070.
- (31) Dell'Amico, L.; Companyö, X.; Naicker, T.; Bräuer, T. M.; Jørgensen, K. A.: Asymmetric organocatalytic benzylation of α,β -unsaturated aldehydes with toluenes. *European Journal of Organic Chemistry* **2013**, 5262-5265.

- (32) Halskov, K. S.; Naicker, T.; Jensen, M. E.; Jørgensen, K. A.: Organocatalytic asymmetric remote aziridination of 2,4-dienals. *Chemical Communications* **2013**, 49, 6382-6384.
- (33) Cele, Z. E. D.; Pawar, S. A.; Naicker, T.; Maguire, G. E. M.; Arvidsson, P. I.; Kruger, H. G.; Govender, T.: Organocatalytic mannich reactions on a carbapenem core - Synthesis of mannich bases and bicyclic diazanonanes. *European Journal of Organic Chemistry* **2014**, 2014, 2253-2260.
- (34) Davis, R. L.; Stiller, J.; Naicker, T.; Jiang, H.; Jørgensen, K. A.: Asymmetric organocatalytic epoxidations: Reactions, scope, mechanisms, and applications. *Angewandte Chemie - International Edition* **2014**, 53, 7406-7426.
- (35) Francis, V.; Naicker, T.: Crystal structure of 3-(benzhydrylcarbamoyl)-2-benzyl-6,7-dimethoxy-1-phenyl-1,2,3,4-tetrahydroisoquinoline 2-oxide, C₃₈H₃₆N₂O₄. *Zeitschrift für Kristallographie - New Crystal Structures* **2014**, 229, 347-348.
- (36) Khanyase, S.; Naicker, T.; Maguire, G. E. M.; Kruger, H. G.; Arvidsson, P. I.; Govender, T.: L-Proline organocatalyzed Michael synthesis of monobactam and carbapenem β -lactam cores. *Tetrahedron Asymmetry* **2014**, 25, 969-973.
- (37) Maphumulo, S. I.; Zulu, S. V.; Naicker, T.: Crystal structure of (S)-3,3-dimethyl-2-((S)-1-phenylethyl)-2,3,10,10-tetrahydroimidazo[1,5-b]isoquinolin-1(5H)-one, C₂₁H₂₄N₂O. *Zeitschrift für Kristallographie - New Crystal Structures* **2014**, 229, 373-374.
- (38) Somboro, A. M.; Tiwari, D.; Bester, L. A.; Parboosing, R.; Chonco, L.; Kruger, H. G.; Arvidsson, P. I.; Govender, T.; Naicker, T.; Essack, S. Y.: NOTA: A potent metallo- β -lactamase inhibitor. *Journal of Antimicrobial Chemotherapy* **2014**, 70, 1594-1596.
- (39) Baijnath, S.; Naiker, S.; Shobo, A.; Moodley, C.; Adamson, J.; Ngcobo, B.; Bester, L. A.; Singh, S.; Kruger, H. G.; Naicker, T.; Govender, T.: Evidence for the presence of clofazimine and its distribution in the healthy mouse brain. *Journal of Molecular Histology* **2015**, 46, 439-442.
- (40) Cele, Z. E. D.; Arvidsson, P. I.; Kruger, H. G.; Govender, T.; Naicker, T.: Applied enantioselective aminocatalysis: α -heteroatom functionalization reactions on the carbapenem (β -lactam antibiotic) core. *European Journal of Organic Chemistry* **2015**, 2015, 638-646.
- (41) Das, S. K.; Bhatt, N.; Mujahid, M.; Arvidsson, P. I.; Kruger, H. G.; Naicker, T.; Govender, T.: Towards a stereoselective synthesis of α,α -disubstituted proline analogues. *Tetrahedron Letters* **2015**, 56, 5172-5174.
- (42) Jad, Y. E.; Acosta, G. A.; Naicker, T.; Ramtahal, M.; El-Faham, A.; Govender, T.; Kruger, H. G.; De La Torre, B. G.; Albericio, F.: Synthesis and Biological Evaluation of a Teixobactin Analogue. *Organic Letters* **2015**, 17, 6182-6185.
- (43) Nandi, G. C.; Kota, S. R.; Naicker, T.; Govender, T.; Kruger, H. G.; Arvidsson, P. I.: Cu(OAc)₂-catalysed oxidative dual C-H/N-H activation of terminal alkynes and N-deprotected sulfonimidamides: An easy access to N-alkynylated sulfonimidamides. *European Journal of Organic Chemistry* **2015**, 2015, 2861-2867.
- (44) Nandi, G. C.; Kota, S. R.; Wakchaure, P. B.; Chinthakindi, P. K.; Govender, T.; Kruger, H. G.; Naicker, T.; Arvidsson, P. I.: Pd-catalyzed C-N coupling of vinylbromides and sulfonimidamides: A facile synthesis of N'-vinylsulfonimidamides. *RSC Advances* **2015**, 5, 62084-62090.

- (45) Abdel Monaim, S. A. H.; Jad, Y. E.; Acosta, G. A.; Naicker, T.; Ramchuran, E. J.; El-Faham, A.; Govender, T.; Kruger, H. G.; de la Torre, B. G.; Albericio, F.: Re-evaluation of the N-terminal substitution and the D-residues of teixobactin. *RSC Advances* **2016**, 6, 73827-73829.
- (46) Azumah, R.; Dutta, J.; Somboro, A. M.; Ramtahal, M.; Chonco, L.; Parboosing, R.; Bester, L. A.; Kruger, H. G.; Naicker, T.; Essack, S. Y.; Govender, T.: In vitro evaluation of metal chelators as potential metallo- β -lactamase inhibitors. *Journal of Applied Microbiology* **2016**, 120, 860-867.
- (47) Baijnath, S.; Shobo, A.; Bester, L. A.; Singh, S. D.; Kruger, G.; Arvidsson, P. I.; Naicker, T.; Govender, T.: Neuroprotective potential of Linezolid: a quantitative and distribution study via mass spectrometry. *Journal of Molecular Histology* **2016**, 429-435.
- (48) Baijnath, S.; Shobo, A.; Bester, L. A.; Singh, S. D.; Kruger, G.; Naicker, T.; Govender, T.: Small molecule distribution in rat lung: a comparison of various cryoprotectants as inflation media and their applicability to MSI. *Journal of Molecular Histology* **2016**, 47, 213-219.
- (49) Chinthakindi, P. K.; Kruger, H. G.; Govender, T.; Naicker, T.; Arvidsson, P. I.: On-Water Synthesis of Biaryl Sulfonyl Fluorides. *Journal of Organic Chemistry* **2016**, 81, 2618-2623.
- (50) Chinthakindi, P. K.; Nandi, G. C.; Govender, T.; Kruger, H. G.; Naicker, T.; Arvidsson, P. I.: An Efficient Protecting-Group-Free Synthesis of Vinylic Sulfoximines via Horner-Wadsworth-Emmons Reaction. *Synlett* **2016**, 27, 1423-1427.
- (51) Chiwunze, T. E.; Azumah, R.; Ramtahal, M.; Somboro, A. M.; Arvidsson, P. I.; Kruger, H. G.; Govender, T.; Naicker, T.: Organocatalyzed Mannich reactions on minocycline: Towards novel tetracycline antibiotics. *South African Journal of Chemistry* **2016**, 69, 72-78.
- (52) Dutta, J.; Chinthakindi, P. K.; Arvidsson, P. I.; De La Torre, B. G.; Kruger, H. G.; Govender, T.; Naicker, T.; Albericio, F.: A Facile Synthesis of NODASA-Functionalized Peptide. *Synlett* **2016**, 27, 1685-1688.
- (53) Govender, T.; Arvidsson, P. I.; Maguire, G. E. M.; Kruger, H. G.; Naicker, T.: Enantioselective Organocatalyzed Transformations of β -Ketoesters. *Chemical Reviews* **2016**, 116, 9375-9437.
- (54) Makhathini, S. S.; Das, S. K.; Singh, T.; Arvidsson, P. I.; Kruger, H. G.; Gunosewoyo, H.; Govender, T.; Naicker, T.: Stereoselective synthesis towards unnatural proline-based amino acids. *Arkivoc* **2016**, 2016, 134-144.
- (55) Makhathini, S. S.; Samipillai, M.; Govender, T.; Naicker, T.: Crystal structure of 2-ethyl-1-tert-butyl-2-((4-fluorophenyl)(tert-butoxycarbonylamino)methyl)-3-oxo-pyrrolidine-1,2-dicarboxylate. *Zeitschrift für Kristallographie - New Crystal Structures* **2016**, 231, 819-821.
- (56) Makhathini, S. S.; Samipillai, M.; Kruger, H. G.; Govender, T.; Naicker, T.: Crystal structure of 2-ethyl-1-tert-butyl 3-oxo-2-[phenyl(tert-butoxycarbonylamino)methyl]-1,2-pyrrolidinedicarboxylate. *Zeitschrift für Kristallographie - New Crystal Structures* **2016**, 231, 725-727.
- (57) Munyeza, C. F.; Shobo, A.; Baijnath, S.; Bratkowska, D.; Naiker, S.; Bester, L. A.; Singh, S. D.; Maguire, G. E. M.; Kruger, H. G.; Naicker, T.; Govender, T.: Development and validation of

a liquid chromatography-tandem mass spectrometry (LC-MS/MS) method for the quantification of tigecycline in rat brain tissues. *Biomedical Chromatography* **2016**, *30*, 837-845.

(58) Munyeza, C. F.; Shobo, A.; Baijnath, S.; Bratkowska, D.; Naicker, S.; Bester, L. A.; Singh, S. D.; Maguire, G. E. M.; Kruger, H. G.; Naicker, T.; Govender, T.: Rapid and widespread distribution of doxycycline in rat brain: A mass spectrometric imaging study. *Xenobiotica* **2016**, *46*, 385-392.

(59) Samipillai, M.; Bhatt, N.; Kruger, H. G.; Govender, T.; Naicker, T.: Diverse supramolecular arrangement of substituted oxopyrrolidine analogues influenced by weak intermolecular interactions (C-H $\cdots$ O/C-H $\cdots$ π /H $\cdots$ H). *Journal of Molecular Structure* **2016**, *1122*, 37-47.

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(63) C.Dlova, N.; Naicker, T.; Naidoo, P.: Soaps and Cleansers for Atopic Eczema, Friends or Foes?: What every South African Paediatrician Should Know about their pH. . *South African Journal of Child Health* **2017**, *Accepted*.

(64) Chinthakindi, P. K.; Govender, K. B.; Kumar, A. S.; Kruger, H. G.; Govender, T.; Naicker, T.; Arvidsson, P. I.: A Synthesis of "Dual Warhead" β -Aryl Ethenesulfonyl Fluorides and One-Pot Reaction to β -Sultams. *Organic Letters* **2017**, 480-483.

(65) Chinthakindi, P. K.; Naicker, T.; Thota, N.; Govender, T.; Kruger, H. G.; Arvidsson, P. I.: Gaining Momentum: Sulfonimidamides in Medicinal- and Agrochemistry. *Angewandte Chemie International Edition* **2017**, 10.1002/anie.201610456.

(66) Dutta, J.; Naicker, T.; Ebenhan, T.; Kruger, H. G.; Arvidsson, P. I.; Govender, T.: Synthetic approaches to radiochemical probes for imaging of bacterial infections. *European Journal of Medicinal Chemistry* **2017**, doi.org/10.1016/j.ejmech.2017.03.060.

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- (71) Samipillai, M.; Kruger, H. G.; Govender, T.; Naicker, T.: (S)-benzyl 3-(benzylcarbamoyl)-3,4-dihydroisoquinoline-2(1H)-carboxylate, C₂₅H₂₄N₂O₃. *Zeitschrift fur Kristallographie - New Crystal Structures* **2017**, 425-426.
- (72) Samipillai, M.; Kruger, H. G.; Govender, T.; Naicker, T.: Crystal structure of 5-acetyl-3-(3-fluoro-4-morpholinophenyl)oxazolidin-2-one, C₁₅H₁₇FN₂O₄. *Zeitschrift fur Kristallographie - New Crystal Structures* **2017**, 427-428.
- (73) Teklezgi, B. G.; Pamreddy, A.; Baijnath, S.; Gopal, N. D.; Naicker, T.; Kruger, H. G.; Govender, T.: Post heroin dose tissue distribution of 6-monoacetylmorphine (6-MAM) with MALDI imaging. *Journal of Molecular Histology* **2017**, 285-292.

Patents

Peters, B.; Kruger, H.G.; Naicker, T.; Arvidsson, P. I.; Govender, T. METALLO-BETA-LACTAMASE INHIBITORS South African provisional patent 2017/03955, June 9, **2017** [Adams and Adams (Ref: P77728ZP00)]

Book Chapters

2012 -Arvidsson, P. I.; Bose, P.; Naicker (2011), T. *In* Comprehensive Chirality Elsevier: Volume 6, pp 239- 317.

2015- Arvidsson P.I., Bose P.P. and Naicker T. (2014), *In* Reedijk, J. (Ed.) Elsevier Reference Module in Chemistry, Molecular Sciences and Chemical Engineering. Waltham, MA: Elsevier: doi:10.1016/B978-0-12-409547-2.11462-3. Update

Professional Bodies

2014 – Editor for South African Journal of Chemistry- Organic Chemistry Division

Grants

Main applicant:

2013 -UKZN for international visiting scientist	R30k
2014 -UKZN RDE	R124k
2015 - NRF Knowledge InterChange Mobility	R80k
2016 -NRF Thuthuka on rating track (3yr)	R260k
2016 -CHSYRG	R100K

2016 -Knowledge, Interchange and Training (KIC) 2016 –	R80K
2016 - Knowledge, Interchange and Collaboration	R35K
2017 -Collaborative Postgraduate Training Call 2016	R830K
2017 -NRF Thuthuka on rating track (3yr)	R364k

Co- applicant:

2014 - NRF Collaborative grant (3yr)	R1.0 Million
2015 -NRF National Equipment Programme	R2.5 Million
2017 -Knut and Alice Wallenberg Foundation (5yr)	USD 3.9 Million
2017 - South Africa (NRF)/ Swedish Cooperation	R300K

Conferences

- 2014** – Invited Lecture at the Binational Organic Conference held 31 Nov- 1 Dec, Stellenborsh, Cape Town.
- 2016** – Invited Lecture at the Bruker User Meeting held 27 Jan- 29 Jan, Cape Town.
- 2017**-Poster presentation at 10th Joint Meeting on Medicinal Chemistry June 25–28 in Srebreno, Croatia

Accolades

- 2007-2008** – National Research Foundation Scare Skills scholarship
- 2009-2011** – National Research Foundation Innovations scholarship
- 2010** - First prize in poster category at UKZN science symposium
- 2011** - Department of Science and Technology Women in science doctoral fellowship award
- 2012** - National Research Foundation Postdoctoral fellowship for abroad
- 2012**- Oppenhiemer Memorial Trust award
- 2012**- Tetrahedron Asymmetry top 25 most cited paper for 2010-2011
- 2017**- Department of Science and Technology Women distinguished young researcher award
- 2017**-UKZN Top 10 young published researchers for 2016

Workshops

- 2013**-UKZN Medical Education Partnership Initiative Grant Writing Programme
- 2014**-NRF Thuthuka Roadshow Initiative
- 2013-2014**- Completed UKZN extended learning University Education Induction Programme
- 2015**-UKZN-College of Health Science Grant Proposal Development.
- 2015**- Curriculum Mapping Using Learning opportunities, objectives and outcomes platform
- 2016**-Pearson Learning catalytics workshop (an interactive student response tool that uses students' mobile devices to engage them in activities and critical thinking)
- 2016**- UKZN-College of Health Science Grant Proposal Development for young reserachers

Postgraduate teaching/supervision/mentorship

- 2007** - 1st year general chemistry demonstrator
2008 - 1st year general chemistry demonstrator, 3rd year organic chemistry demonstrator
2009 - 1st year augmented chemistry demonstrator, 3rd year organic chemistry demonstrator, assisted with supervision of Byron Peters (MSc)
2010 - Assisted in the supervision of Sphelele Sosibo (MSc), Zamani Cele (MSc)
2011 - Assisted in the supervision of Mlungi Sithole (Honours), Madichaba Chelopo (MSc), Sifiso Makhathini (BSc, research assistant)
2009 - 2011 - Introductory training course on Nuclear Magnetic Resonance (Honours)
2012 - Assisted with supervision of Wonder Khumalo (BSc, research assistant)
2013 - Assisted with supervision of Kim Halskov (PhD), Pernille H. Poulsen (PhD), Luca Dell'Amico (PhD) Magnus Jensen (BSc), Thomas Bräuer (MSc).
2013-2014 – Undergraduate research assistants - Siyabonga Maphumulo and Scelo V. Zulu

Below is a list since I started at UKZN as a full time lecturer as main and co-supervisor.

Currently registered:

1. Mzi Khumalo (Msc)
2. Kimberleigh Govender (PhD)
3. Ayanda Hlophe (Msc)
4. Hlengekile Lubanyana (Msc)
5. Hlobisile Nzama (Msc)
6. Sipho Mdanada (PhD)
7. Mbongeni Shungube (PhD)

Students graduated/passed:

8. Jyothi Dutta (PhD) 2017
9. Sooraj Baijnath (PhD) 2017
10. Sipho Mdanada (MSc) 2016
11. Sibusiso Khanyase (MSc) 2014 cum laude
12. Majid Darestani Farahani (MSc) 2014 summa cum laude
13. Chiezda Munyeza (Msc) 2016
14. Sphelele Sosibo (MSc) 2015
15. Sifiso Makhathini (MSc) 2016
16. Tirivashe Chiwunze (MSc) 2016
17. Shobo Adelo (PhD) 2016
18. Mxolisi Sokhela (MSc) 2016
19. Rufaro Razuwika (MSc) 2017 cum laude
20. Zamani Cele (PhD) 2017
21. Kimberleigh Govender (Msc) 2018 summa cum laude

PostDocs

1. Sukant Das (2013-2014)
2. Nilay Bhatt (2014-2015)
3. Mujahid Mohamed (2014-2015)
4. Marivel Sampillai (2015-2016)
5. Niranjana Thota (2015-2016)
6. Praveen Chinthakindi (2014-2017)

7. Byron Peters (2016-2017)

References

Name	Prof. KA Jorgensen (PostDoc supervisor)		
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Contact	per.arvidsson@scilifelab.se or per.arvidsson@orgfarm.uu.se		+46703731483
Name	Prof. HG Kruger (PhD co-supervisor)		
Contact	kruger@ukzn.ac.za	+27312601845	+27837788870
Name	Prof. T Govender (PhD supervisor)		
Contact	govendert@ukzn.ac.za	+27312601845	+27732625616