



MUSHAL ALLAM MOHAMED ELHAJ ALI

PERSONAL DATA

PLACE AND DATE OF BIRTH: Khartoum, Sudan — 17 October 1976
ADDRESS: 1 Modderfontein Road, Sandringham, Johannesburg, South Africa
PHONE: +27 (0) 11 386 6322
CELLPHONE: +27 (0) 714080901
EMAIL: mushala@nicd.ac.za
mushalallam@gmail.com
ORCID: [0000-0002-9875-6716](https://orcid.org/0000-0002-9875-6716)
RESEARCHGATE (RG SCORE): 34.05
GOOGLE SCHOLAR (H-INDEX): 9

EDUCATION

22 MARCH 2013 | **Doctor of Philosophy in Bioinformatics (PhD)**
South Africa National Bioinformatics Institute, University of the Western Cape, Cape Town, South Africa
Thesis: Identification and Characterization of MicroRNAs and Their Putative Target Genes in *Anopheles funestus* s.s (DOI).

13 FEBRUARY 2006 | **Master in Molecular Biology (MSc)**
Institute of Endemic Diseases, University of Khartoum, Khartoum, Sudan
Thesis: Hyperreactive Malarial Splenomegaly (HMS) in Malaria Endemic Area in Eastern Sudan (DOI).

15 JUNE 1999 | **Bachelor of Science (Honours) in Biological Sciences (BSc)**
Faculty of Science and Technology, Al Neelain University, Khartoum, Sudan

WORK EXPERIENCE

OCTOBER 2013- CURRENT | **Senior Bioinformatics Scientist**
Sequencing Core Facility, National Institute for Communicable Diseases, National Health Laboratory Service, Johannesburg, South Africa

MARCH- AUGUST 2013 | **Postdoctoral Research Fellow**
South African National Bioinformatics Institute, University of the Western Cape, South Africa

2008- 2012 | **Undergraduate Students Tutor**
Faculty of Natural Sciences, University of the Western Cape, South Africa

2000- 2008 | **Research Assistant**
Malaria Research Group, Institute of Endemic Diseases, University of Khartoum, Sudan

1999- 2008 | **Teaching Assistant**
Faculty of Science, Al-Neelain University, Sudan

SKILLS AND COMPUTER EXPERIENCE

SEQUENCE DATA MANAGEMENT	Experience in manage and store large sequencing data generated by Illumina (MiSeq and NextSeq), PacBio Sequel, and Oxford Nanopore.
BIOINFORMATICS AND GENOMICS	Analysis of DNA and RNA sequence data, Metagenomics and Metatranscriptomics, including genome sequence assembly, sequence alignment, variant calling, genome annotation, visualization, and inspection of genome assemblies, variants, and rearrangements.
DATA ANALYSIS PIPELINES	Extensive experience in constructing data analysis workflows (CLC and Galaxy), visualization, reporting, and communicating results.
PROGRAMMING AND SCRIPTING LANGUAGES	Shell, C, C++, Perl, Ruby, Python, R, HTML, CSS, PHP, Java, JavaScript.
DATABASE PROGRAMS	MySQL and PostgreSQL.
TYPESETTING TOOLS	Microsoft Office™ and L ^A T _E X.

COURSES, TRAININGS AND WORKSHOPS

- Advance Bioinformatics Training Course, Center for Genomic Epidemiology (CGE), Technical University of Denmark (DTU), Copenhagen, Denmark, 20- 24 January 2020
- H3ABioNet/University of the Witwatersrand and Stanford University Metagenomics Workflow Hackathon 2019, Johannesburg, South Africa, 20- 23 January 2019
- African Centre for Gene Technologies RNASeq Workshop, University of Pretoria, Pretoria, SouthAfrica, 15- 19 May 2017
- Training on the Application of Bioinformatics in Public Health, Public Health England, Colindale, UK, March 2014
- Using Bacterial Isolate Genome Sequence Database (BIGSdb), University of Oxford, Oxford, UK, February 2014
- Working with Pathogen Genomes, Wellcome Trust Sanger Institute, Wellcome Trust Genome Campus, Hinxton, UK, January 2014
- NIAID/NIH Workshop, Microarray Analysis Using R/Bioconductor ,Bamako, Mali, 4- 5 December 2009
- 2nd Southern African Bioinformatics Workshop, organized by University of the Witwatersrand, Johannesburg, SouthAfrica, 11- 12 October 2009
- WHO/TDR Training Course on Bioinformatics Tools for Comparative Genomics of Vectors: Towards an Understanding of Glossina Biology, University of The Western Cape, Cape Town, South Africa, 4- 8 August 2008
- Capacity Building in Malaria with a Focus on e-Learning Course, Tanzanian Training Centre for International Health, Ifakara, Tanzania, October - November 2007
- Advanced Molecular Biology Practical Training Course, held at Division of Medical Biochemistry, Institute for Infectious Disease and Molecular Medicine, University of Cape Town, South Africa, July- September 2007

CONFERENCES

- Young Scientists Symposium, Theme: OneHealth: A focus on Infectious Diseases in Africa, Durban, SouthAfrica, 27- 28 May 2019
- The Young Scientists Conference on Genomics and Human Health in Africa, Khartoum, Sudan, 2- 7 December2018
- PacBio 2018 EMEA User Group Meeting, Lisbon, Portugal,15- 16 November 2018
- 2nd International Conference for Food Safety and Security, Pretoria, South Africa, 15- 17 October 2018
- Next-generation Sequencing Information Day, University of Pretoria, Pretoria, South Africa, 19 September 2018
- PacBio EMEA 2017 User Group Meeting, Barcelona, Spain, 2-3 November 2017
- 2013 ISCB Africa ASBCB Conference on Bioinformatics, Casablanca, Morocco,13-15 March 2013
- Malaria (A8) Meeting, Keystone Symposia, NewOrleans, Louisiana, USA, 20- 25 January 2013
- Molecular Approaches to Malaria 2012 Conference (MAM2012), Lorne, Australia,19- 23 February 2012
- 2011 ISCB Africa ASBCB Conference on Bioinformatics, CapeTown, South Africa, 9- 11 March 2011
- 22nd International Committee on Data for Science and Technology (CODATA), Cape Town, South Africa, 24- 27 October 2010
- 2009 ISCB Africa ASBCB Conference onBioinformatics, Bamako, Mali, 1- 3 December2009
- The Medical Research Council of South Africa (MRC) Research Day, CapeTown, South Africa, 14- 15 September 2009
- International Congress of Parasitology XI Conference (ICOPAXI), Glasgow, Scotland, 6- 11 August 2006
- 4th Annual Meeting of African Society of Human Genetics, held at International Livestock Research Institute, Addis Ababa, Ethiopia, 3- 5 June 2006
- 4th MIM Pan-African Malaria Conference, Yaounde, Cameroon, 13- 18 November 2005

MEMBERSHIPS

- International Society for Computational Biology (ISCB).
- African Society for Bioinformatics and Computational Biology (ASBCB).
- American Society for Microbiology(ASM).
- African Society of Human Genetics (AFSHG).

AWARDED GRANTS

- 2016-2019, South African Medical Research Council Self-initiated Research Grant

OTHER

- South African Identity Document Holder (ID number 7610175777183).
- South African Permanent Residence Permit Holder.

PUBLICATIONS

- [1] R. Owusu-Darko, Allam, M., A. Ismail, C. A. S. Ferreira, S. D. Oliveira, and E. M. Buys. **Comparative Genome Analysis of *Bacillus sporothermodurans* with Its Closest Phylogenetic Neighbor, *Bacillus oleronius*, and *Bacillus cereus* and *Bacillus subtilis* Groups.** *Microorganisms*, 8(8), Aug 2020.
- [2] Allam, M., A. Ismail, Z. T. H. Khumalo, S. Kwenda, P. van Heusden, R. Cloete, C. K. Wibmer, P. S. Mtshali, F. Mnyameni, T. Mohale, K. Subramoney, S. Walaza, W. Ngubane, N. Govender, N. V. Motaze, and J. N. Bhiman. **Genome Sequencing of a Severe Acute Respiratory Syndrome Coronavirus 2 Isolate Obtained from a South African Patient with Coronavirus Disease 2019.** *Microbiology Resource Announcements*, 9(27), Jul 2020.
- [3] R. C. Founou, L. L. Founou, Allam, M., A. Ismail, and S. Y. Essack. **First Report of a Clinical Multi-Drug Resistant *Pseudomonas aeruginosa* ST532 Isolate Harboring Ciprofloxacin-Modifying Enzyme (CrpP) in South Africa.** *Journal of Global Antimicrobial Resistance*, Jun 2020.
- [4] Z. Valley-Omar, A. Cloete, R. Pieterse, S. Walaza, Y. Salie-Bassier, M. Smith, N. Govender, M. Seleka, O. Hellferscee, P. S. Mtshali, Allam, M., A. Ismail, T. Anthony, M. Seutloali, K. McCarthy, L. van Helden, C. Cohen, and F. K. Treurnicht. **Human Surveillance and Phylogeny of Highly Pathogenic Avian Influenza A (H5N8) During an Outbreak in Poultry in South Africa, 2017.** *Influenza and Other Respiratory Viruses*, 14(3):266–273, May 2020.
- [5] R. C. Founou, L. L. Founou, Allam, M., A. Ismail, and S. Y. Essack. **Draft Genome Sequence of a Clinical *Acinetobacter haemolyticus* Isolate from South Africa.** *Journal of Global Antimicrobial Resistance*, 20:16–17, Mar 2020.
- [6] S. B. Mohamed, M. M. Hassan, S. Kambal, A. Munir, N. I. Abdalla, A. Hamad, S. E. Mohammed, F. E. Ahmed, O. Hamid, A. Ismail, and Allam, M. **Genome Sequence of *Escherichia coli* Clone O25:H4 Sequence Type 131, Isolated from a Sudanese Patient with Urinary Tract Infection.** *Microbiology Resource Announcements*, 9(11), Mar 2020.
- [7] T. G. Maphanga, M. Birkhead, J. F. Muñoz, Allam, M., T. G. Zulu, C. A. Cuomo, I. S. Schwartz, A. Ismail, S. D. Naicker, R. S. Mpebe, C. Corcoran, S. de Hoog, C. Kenyon, A. M. Borman, J. A. Frean, and N. P. Govender. **Human Blastomycosis in South Africa Caused by *Blastomyces percursus* and *Blastomyces emzantsi* sp. nov., 1967 to 2014.** *Journal of Clinical Microbiology*, 58(3), Feb 2020.

- [8] J. Thomas, N. Govender, K. M. McCarthy, L. K. Erasmus, T. J. Doyle, Allam, M., A. Ismail, N. Ramalwa, P. Sekwadi, G. Ntshoe, A. Shonhiwa, V. Essel, N. Tau, S. Smouse, H. M. Ngomane, B. Disenyeng, N. A. Page, N. P. Govender, A. G. Duse, R. Stewart, T. Thomas, D. Mahoney, M. Tourdjman, O. Disson, P. Thouvenot, M. M. Maury, A. Leclercq, M. Lecuit, A. M. Smith, and L. H. Blumberg. **Outbreak of Listeriosis in South Africa Associated with Processed Meat.** *The New England Journal of Medicine*, 382(7):632–643, Feb 2020.
- [9] Y. Ramsamy, K. P. Mlisana, D. G. Amoako, Allam, M., A. Ismail, R. Singh, A. L. K. Abia, and S. Y. Essack. **Pathogenomic Analysis of a Novel Extensively Drug-Resistant *Citrobacter freundii* Isolate Carrying a bla_{NDM-1} Carbapenemase in South Africa.** *Pathogens*, 9(2), Jan 2020.
- [10] Y. Ramsamy, K. P. Mlisana, Allam, M., D. G. Amoako, A. L. K. Abia, A. Ismail, R. Singh, T. Kisten, K. S. Han, D. J. J. Muckart, T. Hardcastle, M. Suleman, and S. Y. Essack. **Genomic Analysis of Carbapenemase-Producing Extensively Drug-Resistant *Klebsiella pneumoniae* Isolates Reveals the Horizontal Spread of p18_43.01 Plasmid Encoding bla_{NDM-1} in South Africa.** *Microorganisms*, 8(1), Jan 2020.
- [11] A. Singh-Moodley, Allam, M., H. Ismail, O. Perovic, W. Strasheim, S. Mtshali, and A. Ismail. **Complete Genome Sequence of a *Staphylococcus aureus* Isolate from a Nasopharyngeal Swab from a Mine Worker in South Africa.** *Microbiology Resource Announcements*, 8(50), Dec 2019.
- [12] L. L. Founou, R. C. Founou, Allam, M., A. Ismail, and S. Y. Essack. **Extended-spectrum beta-lactamase-producing *Klebsiella pneumoniae* isolated from an abattoir worker in Cameroon.** *South African Medical Journal*, 109(11):820–821, Nov 2019.
- [13] T. Mohale, N. Wolter, Allam, M., S. A. Nzenze, S. A. Madhi, M. du Plessis, and A. von Gottberg. **Genomic Differences Among Carriage and Invasive Nontypeable *Pneumococci* Circulating in South Africa.** *Microbial Genomics*, 5(10), Oct 2019.
- [14] S. B. Mohamed, S. Kambal, A. Munir, N. I. Abdalla, A. Hamad, S. E. Mohammed, F. E. Ahmed, O. Hamid, M. M. Hassan, A. Ismail, and Allam, M. **Whole-Genome Sequence of High-Risk Clone Sequence Type 111 of *Pseudomonas aeruginosa* Strain NUBRI-P, Isolated from a Wounded Sudanese Patient.** *Microbiology Resource Announcements*, 8(40), Oct 2019.
- [15] D. G. Amoako, A. M. Somboro, A. L. K. Abia, Allam, M., A. Ismail, L. A. Bester, and S. Y. Essack. **Genome Mining and Comparative Pathogenomic Analysis of An Endemic Methicillin-Resistant *Staphylococcus aureus* (MRSA) Clone, ST612-CC8-t1257-SCCmec_IVd(2B), Isolated in South Africa.** *Pathogens*, 8(4), Sep 2019.
- [16] N. Agyepong, U. Govinden, A. Owusu-Ofori, D. G. Amoako, Allam, M., J. Janice, T. Pedersen, A. Sundsfjord, and S. Essack. **Genomic Characterization of Multidrug-resistant ESBL-producing *Klebsiella pneumoniae* Isolated from a Ghanaian Teaching Hospital.** *International Journal of Infectious Diseases*, 85:117–123, Aug 2019.
- [17] N. Agyepong, U. Govinden, A. Owusu-Ofori, Allam, M., A. Ismail, T. Pedersen, A. Sundsfjord, and S. Essack. **Whole-Genome Sequences of Two Multidrug-Resistant *Acinetobacter baumannii* Strains Isolated from Patients with Urinary Tract Infection in Ghana.** *Microbiology Resource Announcements*, 8(31), Aug 2019.
- [18] L. L. Founou, R. C. Founou, Allam, M., A. Ismail, C. Finyom Djoko, and S. Y. Essack. **Genome analysis of methicillin-resistant *Staphylococcus aureus* isolated from pigs: Detection of the clonal lineage ST398 in Cameroon and South Africa.** *Zoonoses and Public Health*, 66(5):512–525, Aug 2019.
- [19] S. B. Mohamed, M. Hassan, A. Munir, S. Kambal, N. I. Abdalla, A. Hamad, S. Mohammed, F. Ahmed, O. Hamid, A. Ismail, and Allam, M. **Whole-Genome Sequence of**

- Acinetobacter baumannii Strain NUBRI-A, Isolated from a Hospitalized Patient in Khartoum, Sudan.** *Microbiology Resource Announcements*, 8(32), Aug 2019.
- [20] S. B. Mohamed, S. Kambal, A. Munir, N. Abdalla, M. Hassan, A. Hamad, S. Mohammed, F. Ahmed, O. Hamid, A. Ismail, and Allam, M. **First Whole-Genome Sequence of a Highly Resistant *Klebsiella pneumoniae* Sequence Type 14 Strain Isolated from Sudan.** *Microbiology Resource Announcements*, 8(32), Aug 2019.
- [21] C. O. Shobo, D. G. Amoako, Allam, M., A. Ismail, S. Y. Essack, and L. A. Bester. **Genome Sequence of a Novel *Enterococcus faecalis* Sequence Type 922 Strain Isolated from a Door Handle in the Intensive Care Unit of a District Hospital in Durban, South Africa.** *Microbiology Resource Announcements*, 8(35), Aug 2019.
- [22] D. G. Amoako, A. M. Somboro, A. L. K. Abia, Allam, M., A. Ismail, L. Bester, and S. Y. Essack. **Genomic analysis of methicillin-resistant *Staphylococcus aureus* isolated from poultry and occupational farm workers in Umgungundlovu District, South Africa.** *Science of the Total Environment*, 670:704–716, Jun 2019.
- [23] D. G. Amoako, A. M. Somboro, A. L. K. Abia, Allam, M., A. Ismail, L. A. Bester, and S. Y. Essack. **Whole-Genome Shotgun Sequence of Drug-Resistant *Staphylococcus aureus* Strain SA9, Isolated from a Slaughterhouse Chicken Carcass in South Africa.** *Microbiology Resource Announcements*, 8(24), Jun 2019.
- [24] A. M. Smith, N. P. Tau, S. L. Smouse, Allam, M., A. Ismail, N. R. Ramalwa, B. Disenyeng, M. Ngomane, and J. Thomas. **Outbreak of *Listeria monocytogenes* in South Africa, 2017-2018: Laboratory Activities and Experiences Associated with Whole-Genome Sequencing Analysis of Isolates.** *Foodborne Pathogens and Disease*, 16(7):524–530, Jun 2019.
- [25] B. M. Mabvakure, B. E. Lambson, K. Ramdayal, L. Masson, D. Kitchin, Allam, M., S. Abdool Karim, C. Williamson, J. A. Passmore, D. P. Martin, C. Scheepers, P. L. Moore, G. W. Harkins, and L. Morris. **Evidence for both Intermittent and Persistent Compartmentalization of HIV-1 in the Female Genital Tract.** *Journal of Virology*, 93(10), May 2019.
- [26] N. B. Ntshobeni, Allam, M., A. Ismail, D. G. Amoako, S. Y. Essack, and H. Y. Chenia. **Draft Genome Sequence of *Providencia rettgeri* APW139.S1, an NDM-18-Producing Clinical Strain Originating from Hospital Effluent in South Africa.** *Microbiology Resource Announcements*, 8(21), May 2019.
- [27] R. Owusu-Darko, Allam, M., S. D. de Oliveira, C. A. S. Ferreira, S. Grover, S. Mtshali, A. Ismail, R. H. Mallappa, F. Tabit, and E. M. Buys. **Genome Sequences of *Bacillus sporothermodurans* Strains Isolated from Ultra-High-Temperature Milk.** *Microbiology Resource Announcements*, 8(22), May 2019.
- [28] R. C. Founou, L. L. Founou, Allam, M., A. Ismail, and S. Y. Essack. **Whole Genome Sequencing of Extended Spectrum β -lactamase (ESBL)-producing *Klebsiella pneumoniae* Isolated from Hospitalized Patients in KwaZulu-Natal, South Africa.** *Scientific Reports*, 9(1):6266, Apr 2019.
- [29] P. Jansen van Vuren, J. T. Ladner, A. A. Grobbelaar, M. R. Wiley, S. Lovett, Allam, M., A. Ismail, C. le Roux, J. Weyer, N. Moolla, N. Storm, J. Kgaladi, M. Sanchez-Lockhart, O. Conteh, G. Palacios, and J. T. Paweska. **Phylogenetic Analysis of Ebola Virus Disease Transmission in Sierra Leone.** *Viruses*, 11(1), Jan 2019.
- [30] L. L. Founou, R. C. Founou, Allam, M., A. Ismail, and S. Y. Essack. **Draft genome sequence of a methicillin-resistant *Staphylococcus epidermidis* isolate from swine.** *Journal of Global Antimicrobial Resistance*, 15:250–251, Dec 2018.
- [31] R. C. Founou, L. L. Founou, Allam, M., A. Ismail, and S. Y. Essack. **Genomic characterisation of *Klebsiella michiganensis* co-producing OXA-181 and NDM-1 carbapen-**

emases isolated from a cancer patient in uMgungundlovu District, KwaZulu-Natal Province, South Africa. *South African Medical Journal*, 109(1):7–8, Dec 2018.

- [32] Y. Ramsamy, K. P. Mlisana, Allam, M., A. Ismail, R. Singh, D. G. Amoako, and S. Y. Essack. **Whole-Genome Sequence of a Novel Sequence Type 3136 Carbapenem-Resistant *Klebsiella pneumoniae* Strain Isolated from a Hospitalized Patient in Durban, South Africa.** *Microbiology Resource Announcements Web result with site links Microbiology Resource Announcements*, 7(23), Dec 2018.
- [33] R. C. Founou, L. L. Founou, Allam, M., A. Ismail, and S. Y. Essack. **Genomic characterisation of *Staphylococcus aureus* ST121 isolated from hospitalised patients in South Africa.** *South African Medical Journal*, 108(12):1007–1008, Nov 2018.
- [34] L. L. Founou, R. C. Founou, Allam, M., A. Ismail, and S. Y. Essack. **Extended-spectrum beta-lactamase-producing *Escherichia coli* harbouring *mcr-1* gene isolated from pigs in South Africa.** *South African Medical Journal*, 108(10):796–797, Oct 2018.
- [35] L. L. Founou, R. C. Founou, Allam, M., A. Ismail, and S. Y. Essack. **Draft genome sequence of an extended-spectrum β -lactamase (CTX-M-15)-producing *Escherichia coli* ST10 isolated from a nasal sample of an abattoir worker in Cameroon.** *Journal of Global Antimicrobial Resistance*, 14:68–69, Sep 2018.
- [36] L. L. Founou, R. C. Founou, Allam, M., A. Ismail, and S. Y. Essack. **Draft genome sequences of extended-spectrum β -Lactamase-producing *Enterobacter aerogenes* isolated from swine and human.** *Journal of Global Antimicrobial Resistance*, 14:70–71, Sep 2018.
- [37] P. Jansen van Vuren, Allam, M., M. R. Wiley, A. Ismail, N. Storm, M. Birkhead, W. Markotter, G. Palacios, and J. T. Paweska. **A novel adenovirus isolated from the Egyptian fruit bat in South Africa is closely related to recent isolates from China.** *Scientific Reports*, 8(1):9584, Jun 2018.
- [38] T. Mogany, F. M. Swalaha, Allam, M., P. S. Mtshali, A. Ismail, S. Kumari, and F. Bux. **Phenotypic and genotypic characterisation of an unique indigenous hypersaline unicellular cyanobacterium, *Euhalothece* sp.nov.** *Microbiological Research*, 211:47–56, Jun 2018.
- [39] Allam, M., N. Tau, S. L. Smouse, P. S. Mtshali, F. Mnyameni, Z. T. H. Khumalo, A. Ismail, N. Govender, J. Thomas, and A. M. Smith. **Whole-Genome Sequences of *Listeria monocytogenes* Sequence Type 6 Isolates Associated with a Large Foodborne Outbreak in South Africa, 2017 to 2018.** *Microbiology Resource Announcements*, 6(25), Jun 2018.
- [40] A. Venter, S. Siebert, N. Rajakaruna, S. Barnard, A. Levanets, A. Ismail, Allam, M., B. Peterson, and T. Sanko. **Biological crusts of serpentine and non-serpentine soils from the Barberton Greenstone Belt of South Africa.** *Ecological Research*, 33(3), May 2018.
- [41] L. L. Founou, R. C. Founou, Allam, M., A. Ismail, C. F. Djoko, and S. Y. Essack. **Genome Sequencing of Extended-Spectrum β -Lactamase (ESBL)-Producing *Klebsiella pneumoniae* Isolated from Pigs and Abattoir Workers in Cameroon.** *Frontiers in Microbiology*, 9:188, Feb 2018.
- [42] K. Ndlangisa, M. du Plessis, Allam, M., N. Wolter, L. de Gouveia, K. P. Klugman, C. Cohen, R. A. Gladstone, and A. von Gottberg. **Invasive Disease Caused Simultaneously by Dual Serotypes of *Streptococcus pneumoniae*.** *Journal of Clinical Microbiology*, 56(1), Jan 2018.
- [43] Allam, M., L. Joseph, F. Ismail, H. Said, N. A. Ismail, A. Ismail, S. Mtshali, F. Mnyameni, P. Goussard, J. C. Pekeur, A. Lourens, and S. V. Omar. **Whole-Genome Sequence of a**

Mycobacterium goodii Isolate from a Pediatric Patient in South Africa. *Microbiology Resource Announcements*, 6(3), Jan 2018.

- [44] A. M. Smith, K. J. Bosco, M. P. Nicol, J. Kleynhans, M. McCulloch, S. T. Duze, A. Ismail, Allam, M., N. P. Tau, and K. H. Keddy. **Genome Sequence for Shiga Toxin-Producing Escherichia coli O26:H11, Associated with a Cluster of Hemolytic-Uremic Syndrome Cases in South Africa, 2017.** *Microbiology Resource Announcements*, 5(38), Sep 2017.
- [45] M. du Plessis, N. Wolter, Allam, M., L. de Gouveia, F. Moosa, G. Ntshoe, L. Blumberg, C. Cohen, M. Smith, P. Mutevedzi, J. Thomas, V. Horne, P. Moodley, M. Archary, Y. Mahabeer, S. Mahomed, W. Kuhn, K. Mlisana, K. McCarthy, and A. von Gottberg. **Molecular Characterization of Corynebacterium diphtheriae Outbreak Isolates, South Africa, March-June 2015.** *Emerging Infectious Diseases*, 23(8):1308–1315, Aug 2017.
- [46] S. V. Omar, Allam, M., L. Joseph, S. Mtshali, N. A. Ismail, and A. Ismail. **Draft Genome Sequence of Mycobacterium peregrinum Isolated from an HIV-Positive Patient in South Africa.** *Microbiology Resource Announcements*, 5(31), Aug 2017.
- [47] R. Owusu-Darko, Allam, M., S. Mtshali, A. Ismail, and E. M. Buys. **Draft genome sequence of Bacillus oleronius DSM 9356 isolated from the termite Reticulitermes santonensis.** *Genomics Data*, 12:76–78, Jun 2017.
- [48] A. Singh-Moodley, O. Perovic, S. Mtshali, A. Ismail, and Allam, M. **Draft Genome Sequence of a Multidrug-Resistant Serratia marcescens Strain, Isolated from a Patient with Peritoneal Cancer in South Africa.** *Microbiology Resource Announcements*, 5(26), Jun 2017.
- [49] K. Ganesh, Allam, M., N. Wolter, H. B. Bratcher, O. B. Harrison, J. Lucidarme, R. Borrow, L. de Gouveia, S. Meiring, M. Birkhead, M. C. Maiden, A. von Gottberg, and M. du Plessis. **Molecular characterization of invasive capsule null Neisseria meningitidis in South Africa.** *BMC Microbiology*, 17(1):40, Feb 2017.
- [50] Allam, M., B. L. Spillings, H. Abdalla, D. Mapiye, L. L. Koekemoer, and A. Christoffels. **Identification and characterization of microRNAs expressed in the African malaria vector Anopheles funestus life stages using high throughput sequencing.** *Malaria Journal*, 15(1):542, Nov 2016.
- [51] T. Mohale, N. Wolter, Allam, M., K. Ndlangisa, P. Crowther-Gibson, M. du Plessis, and A. von Gottberg. **Genomic analysis of nontypeable pneumococci causing invasive pneumococcal disease in South Africa, 2003-2013.** *BMC Genomics*, 17:470, Jun 2016.
- [52] K. M. Ndlangisa, M. du Plessis, Allam, M., N. Wolter, T. Mohale, L. de Gouveia, M. Birkhead, K. P. Klugman, and A. von Gottberg. **Two cases of serotypeable and non-serotypeable variants of Streptococcus pneumoniae detected simultaneously during invasive disease.** *BMC Microbiology*, 16(1):126, Jun 2016.
- [53] M. du Plessis, Allam, M., S. Tempia, N. Wolter, L. de Gouveia, C. von Mollendorf, K. A. Jolley, N. Mbelle, J. Wadula, J. E. Cornick, D. B. Everett, L. McGee, R. F. Breiman, R. A. Gladstone, S. D. Bentley, K. P. Klugman, and A. von Gottberg. **Phylogenetic Analysis of Invasive Serotype 1 Pneumococcus in South Africa, 1989 to 2013.** *Journal of Clinical Microbiology*, 54(5):1326–1334, May 2016.
- [54] Allam, M., T. A. Alkadarou, B. G. Ahmed, I. S. Elkhair, E. H. Alansary, M. E. Ibrahim, A. M. Elhassan, and I. M. Elhassan. **Hyper-reactive Malarial Splenomegaly (HMS) in malaria endemic area in Eastern Sudan.** *Acta Tropica*, 105(2):196–199, Feb 2008.