

Curriculum Vitae



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PhD (University of Nairobi); MSc (University of Nairobi), BSc (Addis Ababa University)

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Personal Details

Date of birth: 19/01/1969

Nationality: Ethiopian

Marital status: Married

Education/Qualifications

2004 Ph.D. (Chemistry), University of Nairobi, Kenya

1997 M.Sc. (Chemistry), University of Nairobi, Kenya

1990 B.Sc. (Chemistry), Addis Ababa University, Ethiopia

Short Term Training/Workshops

- ✓ PACN-INASP Training Workshop on Scientific Writing and Publishing, 20 – 21 November 2015, University of Nairobi, Kenya.
- ✓ Trainers of Trainers (ToT) on Alcohol and Drug Abuse Management, 15-19 June 2015, University of Nairobi, Kenya.
- ✓ KDSA/DAAD Scientific Paper Writing Workshop, 24-27 July 2013, Kenyatta University, Nairobi Kenya.
- ✓ The 2012 Seeding Labs Grant Writing Curriculum, May – August 2012, Massachusetts, USA.
- ✓ Prepare – PhD Project – PhD Supervision Training workshop, 24-28 November 2012, University of Nairobi, Kenya.
- ✓ Pharmacogenetics of Drug Metabolism, University of Nairobi, 22-26 June 2009.
- ✓ Proposal writing for International Projects. Makerere University, Uganda, December 8-12, 2008.
- ✓ Good Laboratory Practice (GLP), University of Nairobi, Kenya, 24-26 October 2007.
- ✓ In-House Training on Pedagogical Skills, University of Nairobi, Kenya, 1-3 October 2007.
- ✓ DAAD Higher Education Forum on Capacity Building and Development Research in Sub-Saharan Africa, Oct 3-6, 2005. Center for Development Research, Zentrum für entwicklungsforschung (ZEF), Bonn, Germany.
- ✓ Summer School for African Networks in the field of Technology and Development (Engineering and Natural Sciences) is organized by the Faculty of Process and Systems Engineering, Otto- von- Guericke University of Magdeburg, Magdeburg, Germany. (Sept 24th - Oct 7th 2005).
- ✓ The 11th NAPRECA Pre-Symposium Workshop on “Bio-assay and NMR Techniques”, IMRA, Antananarivo, Madagascar, 1-6 August 2005.
- ✓ University of Potsdam, Institute of Chemistry, Potsdam, Germany (Oct. 1st 2002 - March 31st 2003).
- ✓ DAAD Scholarship/Fellowship holders seminar on "Skills in Research". Egerton University, Njoro, Kenya (23-25, Jan. 2002).

- ✓ 9th NAPRECA Pre-symposium Workshop on Structural Elucidation and Chromatography, Department of Chemistry, University of Nairobi, Nairobi, Kenya (22-27, Aug. 2001).
- ✓ DAAD Scholarship/Fellowship holder's seminar on scholarly writing, University of Nairobi, Nairobi, Kenya (19-21, Jan. 2000).
- ✓ Second IOCD International Symposium on Chemistry, Biological and Pharmacological Property of African Medicinal Plants and Pre-Symposium workshop on HPLC and Bioassay. Addis Ababa, Ethiopia (28/02 - 03/03 1999).
- ✓ Third Theoretical Chemistry Workshop in Africa and East and Southern Africa Environmental Chemistry Workshop. University of Nairobi, Kenya. (1-6, Nov. 1998).
- ✓ Second Theoretical Chemistry Workshop in Africa. University of Nairobi, Kenya. (26-30, Aug. 1996).
- ✓ First Theoretical Chemistry Workshop in Africa. University of Nairobi, Kenya. (20-24, Feb. 1995).
- ✓ Workshop on "The Operation, Maintenance and Repair of UV/Visible Spectrophotometers and HPLC Equipment", Addis Ababa, Ethiopia. (5-27, May 1993).
- ✓ Chromatography Workshop Organized by NAPRECA, Addis Ababa, Ethiopia. (9-13, Dec. 1991).

External Examiner

Karatina University (2016-)

Masinde Muliro University of Science and Technology (2016 -)

Teaching Experience

Postgraduate

SCH 503; SCH 511; TPS 3100 (QSAR)

Undergraduate

ACH 101/102, SCH 102; SCH 202; SCH 206; UPC 213; SCH 302; SCI 304; SCH 402; SCH 404

Fourth Year Project Coordinator

SCH 412 and SCI 410

Scholarship and Research Grant Management Experience

2015 – Present - Member of the selection committee of [DAAD In country/In region \(German Academic Exchange Service\) postgraduate scholarships](#)

2014 – Present -Member of the selection committee for [Deans Committee research grant of the University of Nairobi, Nairobi, Kenya](#)

2017 – Present - Member of the selection committee of DAAD In country/In region (German Academic Exchange Service) postgraduate scholarships at School of Graduate Studies, University of Nairobi

2009 – 2015

As a Program officer of the Natural Products Research Network for Eastern and Central Africa (NAPRECA), I have been processing and short listing applicant for award of [DAAD/NAPRECA scholarships](#).

2014 – Present

Coordinator [Wandiga-Hull](#) Scholarship. This program enables the best chemistry graduate study for PhD at Binghamton University, New York, USA

2013 - Present

Facilitator – DAAD Proposal Training Workshop in Kenya, Sudan, Rwanda and Tanzania

Supervision

Postgraduate students

s/n	Name of Postgraduate Student (Nationality)	Co-Supervisor(s)	Program	Year of Completion
PhD students who completed their study				
1.	Lois Muiva Mwikali Mutisya (Kenya)	Prof. Abiy Yenesew Dr. Faith Okalembo Dr. Charles Mutai	PhD (UoN)	2017
2.	Irene Chege (Kenyan)	Dr. Faith Okalebo, Prof. Anastasia Guantai, Prof. Simon Karanja	PhD (JKUAT)	2017
3.	Tsegaye Deyou (Ethiopian)	Prof. Abiy Yenesew Prof. Máté Erdélyi	PhD (UoN)	2015
4.	Ivan Gumula (Ugandan)	Prof. Abiy Yenesew Prof. Isaiah Ndiege	PhD (UoN)	2015
5.	Charles Muthaura (Kenyan)	Prof. Joseph Keriko Dr. Charles Mutai	PhD (JKUAT)	2015
6.	Leonidah Kerubo Omosa (Kenyan)	Prof. Jacob Midiwo	PhD (UoN)	2009
Current PhD Students				
7.	James Oyim (Kenyan)	Dr. Edith Amuhaya Dr. Ruth Odhiambo	PhD (UoN)	Current
8.	Daniel Buyinza (Ugandan)	Dr. Albert Ndakala	PhD (UoN)	Current
9.	Souaibou Yaouba (Cameroonian)	Prof. Abiy Yenesew Dr. Eric M. Guantai	PhD (UoN)	Current
10	Moses Andima (Ugandan)	Dr. Albert Ndakala	PhD (UoN)	Current
11	Richard Oriko (Ugandan)	Dr. Albert Ndakala	PhD (UoN)	Current

s/n	Name of Postgraduate Student (Nationality)	Co-Supervisor(s)	Program	Year of Completion
12	Fred Sawenja (Kenyan)	Dr. Edith Amuhaya	PhD (TUK)	Current
MSc students who completed their study				
13	Samuel Gachuhi (Kenyan)	Dr. Albert Ndakala	MSc (UoN)	2017
14	James Oyim (Kenyan)	Dr. Albert Ndakala	MSc (UoN)	2016
15	Michael Rogo (Kenyan)	Dr. Albert Ndakala	MSc (UoN)	2016
16	Scolastica Maynim (Kenyan)	Dr. Albert Ndakala	MSc (UoN)	2016
17	Daisy Nyawira Njru (Kenyan)	Prof. Abiy Yenesew	MSc (UoN)	2015
18	Makungu Marco (Tanzanian)	Prof. Abiy Yenesew	MSc (UoN)	2014
19	Denis Akampurira (Ugandan)	Prof. Abiy Yenesew Prof. Jacob Midiwo	MSc (UoN)	2014
20	Daniel Buyinza (Ugandan)	Prof. Abiy Yenesew Prof. Amir Yusuf Dr. Leonidah Kerubo	MSc (UoN)	2012
21	Bernard Macharia (Kenyan)	Prof. Abiy Yenesew Prof. Amir Yusuf Dr. Leonidah Kerubo	MSc (UoN)	2012
22	Leonard Baraza (Kenyan)	Prof. Abiy Yenesew	MSc (UoN)	2011
23	Meron Gebru (Eritrean)	Prof. Abiy Yenesew Dr Martin Mbugua	MSc (UoN)	2010
24	Immaculate Achieng (Kenyan)	Prof. Abiy Yenesew Prof. Jacob Midiwo	MSc (UoN)	2009
25	Muiva, L.M. (Kenyan)	Prof. Abiy Yenesew Prof. Joseph Keriko Dr. Charles Mutai	MSc (JKUAT)	2009
26	Kiplagat J. Tuwei (Kenyan)	Prof. Abiy Yenesew Prof. Jacques M. Kabaru	MSc (UoN)	2006
Current MSc students				
27	Sebastian Oloo Otieno	Dr. Edith Amuhaya Dr. Ruth Odhiambo	MSc (UoN)	Current
28	Jackie Khisa	Dr. Edith Amuhaya Dr. Ruth Odhiambo	MSc (UoN)	Current
29	Openda Ikala	Dr. Albert Ndakala	MSc (UoN)	Current
30	Hilda Kyomuhimbo	Prof. G. N. Kamau	MSc (UoN)	Current

Undergraduate students

s/n	Name of Undergraduate Student	Year of Completion
31	Elsie Akoth	2018
32	Brenda Okoko Atieno	2018

33	Stephanie G. Kamunya	2016
34	Preston Kyalo Gatombi	2016
35	Sydney Mwasambu Pole	2016
36	John Mutua	2015
37	Michael Mwangi	2015
38	Simon Mutunga	2010
39	Abdallah Labiba Ahmed	2009
40	Omar Faiz Salim	2009
41	Faith Katunge Mwanja	2008
42	Evans Kimega	2008
43	Mwololo B.M.,	2007
44	Mpakany Hilda Kadenyi	2005
45	Waithaka Samuel	2005

Academic Publications

Refereed Journal Articles

2018

1. Yaouba, S., Koch, A., Guantai, E. M., Derese, S., Irungu, B., Heydenreich, M., & Yenesew, A. (2018). Alkenyl cyclohexanone derivatives from *Lannea rivae* and *Lannea schweinfurthii*. *Phytochemistry Letters*, 23, 141–148.

2017

2. Deyou, T., Marco, M., Heydenreich, M., Pan, F., Gruhonjic, A., Fitzpatrick, P. A., Erdélyi, M. (2017). Isoflavones and Rotenoids from the Leaves of *Millettia oblata* ssp. *teitensis*. *Journal of Natural Products*, 80(7), 2060–2066.
3. Muiva-Mutisya, L. M., Atilaw, Y., Heydenreich, M., Koch, A., Akala, H. M., Cheruiyot, A. C. Yenesew, A. (2017). Antiplasmodial prenylated flavanonols from *Tephrosia subtriflora*. *Natural Product Research*, 1–8.
4. Marco M, Deyou T, Gruhonjic A, Holleran JP, Duffy S, Heydenreich M, Fitzpatrick PA, Landberg G, Koch A, Derese S, Pelletier J, Avery VM, Erdélyi Máté, Yenesew A. (2017) Pterocarpan and Isoflavones from the Root Bark of *Millettia micans* and of *Millettia dura*. *Phytochemistry Letters* 21, 216-220.
5. S. Derese, E.M. Guantai, Y. Souaibou, V. Kuete (2017) *Mangifera indica* L. (Anacardiaceae) in *Medicinal Spices and Vegetables from Africa - Therapeutic Potential against Metabolic, Inflammatory, Infectious and Systemic Diseases.*, Edited by Kuete, D.V. Elsevier Academic Press. pp. 451 – 483.
6. Charles N. Muthaura, Joseph M. Keriko, Charles Mutai, Abiy Yenesew, Matthias Heydenreich, Yoseph Atilaw, Jeremiah W. Gathirwa, Beatrice N. Irungu and Solomon Derese (2017) Antiplasmodial, Cytotoxicity and Phytochemical Constituents of Four *Maytenus* Species Used in Traditional Medicine in Kenya" *The Natural Products Journal*,

7(2), 144-152.

2016

7. Omosa LK, Midiwo JO, Mbaveng AT, Tankeo SB, Seukep JA3, Voukeng IK, Dzotam JK, Isemeki J2, Derese S, Omolle RA, Efferth T, Kuete V (2016) Antibacterial activities and structure-activity relationships of a panel of 48 compounds from Kenyan plants against multidrug resistant phenotypes. 5(901), 1-15.
8. Marco M, Deyou T, Gruhonjic A, Holleran JP, Duffy S, Heydenreich M, Fitzpatric PA, Landberg G, Koch A, **Derese S**, Pelletier J, Avery VM, Erdélyi Máté, Yenesew A. (2016) "Pterocarpan and Isoflavones from the Root Bark of *Millettia micans* and of *Millettia dura*." *Advances in Drug Discovery and Development*, pp. 1-8.

2015

9. Tsegaye Deyou, Ivan Gumula, Fangfang Pang, Amra Gruhonjic, Michael Mumo, John Holleran, Sandra Duffy, Paul A Fitzpatrick, Matthias Heydenreich, Göran Landberg, **Solomon Derese**, Vicky Avery, Kari Rissanen, Máté Erdélyi, Abiy Yenesew. (2015). Rotenoids, Flavonoids, and Chalcones from the Root Bark of *Millettia usaramensis*. *J. Nat. Prod.* **78**(12), pp. 2932-9.
10. Muthaura, C. N., Keriko, J. M., Mutai, C., Yenesew, A., Gathirwa, J. W., Irungu, B. N., **Derese, S.** (2015). Antiplasmodial potential of traditional phytotherapy of some remedies used in treatment of malaria in Meru–Tharaka Nithi County of Kenya. *Journal of Ethnopharmacology*, **175**, pp. 315–323.
11. Muthaura CN, Keriko JM, Mutai C, Yenesew A, Gathirwa JW, Irungu BN, Nyangacha R, Mungai GM, **Derese S** (2015). Antiplasmodial potential of traditional antimalarial phytotherapy remedies used by the Kwale community of the Kenyan coast. *Journal of Ethnopharmacology*, **170**, pp. 148–157.
12. Chege, I. N., Okalebo, F. A., Nkatha Guantai, A., Karanja, S., & **Derese, S.** (2015). Management of type 2 diabetes mellitus by traditional medicine practitioners in Kenya-key informant interviews. *Pan African Medical Journal*, **22**(90). Retrieved from <http://www.panafrican-med-journal.com/content/article/22/90/full/>
13. Irene Njeri Chege, Faith Apolot Okalebo, Anastasia Nkatha Guantai, Simon Karanja, **Solomon Derese** (2015). Herbal Product Processing Practices of Traditional Medicine Practitioners in Kenya-Key Informant Interviews. *Journal of Health, Medicine and Nursing*, **16**, pp. 11-23.
14. Whitehead, L., Changamu, E. O., Dudnik, N., McCarren, P., Chopra, R., Fazio, R. R., Qualter, D., Patel, V., Haas, R., Naovarangsy, K., Gami, B., Harwell, C., Jeffry D. Madura, J.D., Burks, H., **Derese, S.**, Hall, M.L., Greenberg, R., Ohlinger, S., Pradon, J., Henry, B. R., Wang, L., Kiruri, L., Dionne, C. and Brigitta Tadmor. (2015). Seed, Foster, Believe, Dream and Act. Capacity Building in Kenya by Novartis Global Discovery Chemistry, Seeding Labs, the International Activities Committee, and the Computers in Chemistry Division of the ACS between 2010–2014. In H. N. Cheng, M. L. Wu, & B. D. Miller (Eds.), *Jobs, Collaborations, and Women Leaders in the Global Chemistry Enterprise* (Vol. 1195, pp. 153–167).

Washington, DC: American Chemical Society. Retrieved from <http://pubs.acs.org/doi/10.1021/bk-2015-1195.ch016>.

2014

15. Derese, S., Barasa, L., Akala, H. M., Yusuf, A. O., Kamau, E., Heydenreich, M., & Yenesew, A. (2014). 4'-Prenyloxyderrone from the stem bark of *Millettia oblata* ssp. *teitensis* and the antiplasmodial activities of isoflavones from some *Millettia* species. *Phytochemistry Letters*, *8*, pp. 69–72.
16. Muiva-Mutisya, L., Macharia, B., Heydenreich, M., Koch, A., Akala, H. M., Derese, S., Leonidah K. Omosa, Amir O. Yusuf, Edwin Kamau, Yenesew, A. (2014). 6 α -Hydroxy- α -toxicarol and (+)-tephrodin with antiplasmodial activities from *Tephrosia* species. *Phytochemistry Letters*, *10*, pp. 179–183.

2013

17. Derese, S. (2013). Antiplasmodial activity of compounds from the surface exudates of *Senecio roseiflorus*. *Natural Product Communications*, *8*(2), pp 175-6.

2012

18. Gumula, I., Heydenreich, M., **Derese, S.**, Ndiege, I. O., & Yenesew, A. (2012). Four isoflavanones from the stem bark of *Platycephalum voëense*. *Phytochemistry Letters*, *5*(1), pp. 150–154. <http://doi.org/10.1016/j.phytol.2011.11.012>.
19. Milkyas Endale, John Patrick Alao, Hoseah M Akala, Nelson K Rono, Fredrick L Eyase, **Solomon Derese**, Albert Ndakala, Martin Mbugua, Douglas S Walsh, Per Sunnerhagen, Mate Erdelyi, Abiy Yenesew. (2012). Antiplasmodial Quinones from *Pentas longiflora* and *Pentas lanceolata*. *Planta Medica*, *78*, pp. 31–35.

2011

20. Muthaura CN, Keriko JM, **Derese S**, Yenesew A, Rukunga GM. (2011). Investigation of some medicinal plants traditionally used for treatment of malaria in Kenya as potential sources of antimalarial drugs. *Experimental Parasitology*, *127*(2), pp. 609–626.

2010

21. Machumi F, Samoylenko V, Yenesew A, **Derese S**, Midiwo JO, Wiggers FT, Jacob MR, Tekwani BL, Khan SI, Walker LA, Muhammad I. (2010). Antimicrobial and antiparasitic abietane diterpenoids from the roots of *Clerodendrum eriophyllum*. *Natural Products Communication*, *5*(6), pp. 853–858.
22. Leonidah K. Omosa, Jacob O. Midiwo, **Solomon Derese**, Abiy Yenesew, Martin G. Peter, Matthias Heydenreich (2010). neo-Clerodane diterpenoids from the leaf exudate of *Dodonaea angustifolia*. *Phytochemistry Letters*, *3*(4), pp. 217–220.

2009

23. Muiva, L. M., Yenesew, A., **Derese, S.**, Heydenreich, M., Peter, M. G., Akala, H. M., Walsh, D. (2009). Antiplasmodial β -hydroxydihydrochalcone from seedpods of *Tephrosia elata*. *Phytochemistry Letters*, **2**(3), pp. 99–102. <http://doi.org/10.1016/j.phytol.2009.01.002>

2006

24. Andrew .W. Andayi, A. Yenesew, **Solomon Derese**, Jacob O. Midiwo, Peter M. Gitu, Ogoche I. Jondiko, Norman Waters, Pamela Liyala, Hosea Akala, Matthias Heydenreich, Martin G Peter (2006). Antiplasmodial activities of flavonoids from *Erythrina saculeuxii*. *Planta Medica*, **72** (2), pp. 187-189.
25. Abiy Yenesew, John T. Kiplagat, Solomon Derese, Jacob O. Midiwo, Jacques M. Kabaru, Matthias Heydenreich, Martin G. Peter (2006). Two unusual rotenoid derivatives, 7-a-O-methyl-12a-hydroxydeguelol and spiro-13-homo-13-oxaelliptone, from the seeds of *Derris trifoliata*. *Phytochemistry*, **67**, pp. pp. 988–991.

2005

26. Abiy Yenesew, Eluid K. Mushibe, Martha Induli, **Solomon Derese**, J.O. Midiwo, Jacques M. Kabaru, Matthias Heydenreich, Andreas Koch , Martin G. Peter. (2005). 7a-O-Methyldeguelol, a modified rotenoid with an open ring-C, from the roots of *Derris trifoliata*. *Phytochemistry*, **66**, pp. 653–657.
27. Yenesew, A; **Solomon Derese**, J.O. Midiwo, Bii, C.C., Heydenreich, M., Peter, M.G. (2005). Antimicrobial flavonoids from the stem bark of *Erythrina burttii*. *Fitoterapia*, **76**(5). pp. 469-472.

2004

28. Abiy Yenesew, Martha Induli, **Solomon Derese**, Jacob O. Midiwo, Matthias Heydenreich, Martin G Peter, Hosea Akala, Julia Wangui, Pamela Liyala, Norman Waters (2004). Antiplasmodial flavonoids from the stem bark of *Erythrina abyssinica*. *Phytochemistry*, **65**(22), pp. 3029-3032.

2003

29. **Solomon Derese**, Abiy Yenesew, J.O. Midiwo, Matthias Heydenreich and Martin G. Peter. (2003). A new isoflavones from the stem bark of *Millettia dura*. *Bull. Chem. Soc. Ethiop.*, **17**(1), pp. 113–115.
30. Abiy Yenesew, **Solomon Derese**, Jacob O. Midiwo, Matthias Heydenreich and Martin G. Peter (2003). Effect of Rotenoids from the seeds of *Millettia dura* on Larvae of *Aedes aegypti*. *Pest Management science*, **59**, pp. 1159-1161.
31. Abiy Yenesew, **Solomon Derese**, B. Irungu, J.O. Midiwo, N.C. Waters, P. Liyala, H. Akala, M. Heydenreich and M.G. Peter (2003). Flavonoids and isoflavonoids with anti-plasmodial activities from the roots of *Erythrina abyssinica*. *Planta medica*, **69**, pp. 658-661.
32. Abiy Yenesew, Beatrice Irungu, **Solomon Derese**, Jacob O. Midiwo, Matthias Heydenreich, and Martin G. Peter. (2003). Two prenylated flavonoids from the stem bark of *Erythrina burttii*. *Phytochemistry*, **63**(4), pp. 445-448.

33. Yenesew, A., **Derese, S.**, Midiwo, J. O., Oketch-Rabah, H. A., Lisgarten, J., Palmer, R., Waters, N. C. (2003). Anti-plasmodial activities and X-ray crystal structures of rotenoids from *Millettia usaramensis* subspecies *usaramensis*. *Phytochemistry*, **64**(3), pp.773–779. [http://doi.org/10.1016/S0031-9422\(03\)00373-X](http://doi.org/10.1016/S0031-9422(03)00373-X)

2002

34. J.O. Midiwo, A. Yenesew, B. F.Juma, **Solomon Derese**, J. A. Ayoo and A. O. Aluoch and S. Guchu. (2002). Bioactive Compounds from Some Kenyan Ethno-medicinal Plants: Myrsinaceae, Polygonaceae and *Psiadia punctulata*. *Phytochemistry Reviews*, 2002, **1**, pp. 311-323.

Publications in Book of Proceedings and Abstracts

1. **Antiplasmodial flavonoids from some Kenyan Papilinoideae species.** Abiy Yenesew, **Solomon Derese**, Jacob O. Midiwo. 6th Kenya Chemical Society and East and Southern Africa Environmental Chemistry and 8th Theoretical Chemistry in Africa Conference, Mombasa, Kenya, October 5-10, 2009.
2. **Antiplasmodial β -hydroxydihydrochalcone from seedpods of *Tephrosia elata*.** Muiva, L.M. Yenesew, A., **Solomon Derese**, Heydenreich, M., Peter, M.G., Akala, H.M., F. Eyase, Waters, N.C., Mutai, C., Keriko, J.M., Walsh, D. The 13th NAPRECA symposium, Kinshasa, D.R. Congo, August 10 -14, 2009.
3. **Phytochemical investigation of surface exudates of *Dodonaea angustifolia* for in vitro Antiplasmodial and mosquito larvicidal activity.** Leonidah K. Omosa, Jacob O. Midiwo, **Solomon Derese**, Abiy Yenesew, Martin G. Peter, Matthias Heydenreich, Akala, H.M., Eyase, F., Waters, N.C. and Kabaru, J. The 13th NAPRECA symposium, Kinshasa, D.R. Congo, August, 10 -14, 2009.
4. **Antiplasmodial flavonoids from *Tephrosia aequilata*.** Mwanja, F.K., **Solomon Derese**, Abiy Yenesew. 5th International Congress of the African Association of Physiological Science, August 2008, Nairobi, Kenya.
5. **Antiplasmodial anthraquinones from the roots of *Kniphophia thomsonii*.** Immaculate Achieng, Abiy Yenesew, **Solomon Derese**, Jacob O. Midiwo, Martin G. Peter, Akala, H., Norman C. Waters. 5th International Congress of the African Association of Physiological Science, August 2008, Nairobi, Kenya.
6. **The search for anti-malarial principles from Kenyan plants.** Jacob O. Midiwo, Abiy Yenesew, **Solomon Derese**. First joint IOCD-ISDNP international symposium on natural products, 25-29th February 2008, Kasane, Botswana.
7. **Bioactive isoflavonoids from Kenyan *Erythrina* species.** Abiy Yenesew, Hannington Twinomuhwezi, **Solomon Derese**, Jacob O. Midiwo, Mathias Heyendreich, Martin G.

- Peter. First joint IOCD-ISDNP international symposium on natural products, 25-29th February 2008, Kasane, Botswana.
8. **Rotenoloids and a spirohomooxarotenoid: new subclasses of isoflavonoids from *Derris trifoliata***. Abiy Yenesew, **Solomon Derese**, John T. Kiplagat, Eluid K. Mushibe, Martha Induli, Jacob O. Midiwo, Jacques M. Kabaru, Matthias Heydenreich, Martin G. Peter. The 12th NAPRECA symposium, Kampala, Uganda, 22-26 July 2007.
 9. **Anti-plasmodial flavonoids from *Erythrina***. Abiy Yenesew, **Solomon Derese**, Martha Induli, Andrew .W. Andayi, Jacob O. Midiwo, Matthias Heydenreich, Martin G Peter, Norman Waters, Hosea Akala, Pamela Liyala. The 12th NAPRECA symposium, Kampala, Uganda, 22-26 July 2007.
 10. **Antiplasmodial flavonoids from the stem bark of *Erythrina abyssinica***. Martha Induli, Abiy Yenesew, **Solomon Derese**, Jacob O. Midiwo, Matthias Heydenreich, Martin G. Peter, Hosea Akala , Julia Wanguie, Pamela Liyala , Norman C. Waters. The 12th NAPRECA symposium, Kampala, Uganda, 22-26 July 2007.
 11. **Unique rotenoids from the seeds of *Derris trifoliata***. John Kiplagat Tuwei, Abiy Yenesew, **Solomon Derese**, Jacob O. Midiwo, Jacques M. Kabaru, Matthias Heydenreich, Martin G. Peter. The 12th NAPRECA symposium, Kampala, Uganda, 22-26 July 2007.
 12. **The search for anti-malarial principles from Kenyan plants**. Midiwo J.O., A. Yenesew and **S. Derese**. AFASSA Symposium. Montevideo, Uruguay, March 2006.
 13. **Bioactive compounds from popular Kenyan medicinal plants**. Midiwo J. O. A. Yenesew, B.F. Juma, **S, Derese**, J. L. Kerubo. 5th ANRAP International Seminar- 22nd MNPS Annual Seminar November 2006, Kuala Lumpur, Malaysia.
 14. **Phytochemical evaluation of Kenyan medicinal plants**. J. O. Midiwo, A. Yenesew, **S. Derese**, Kerubo L. Omosa, D. Mutisya, I. W. Kimiti. (2005). Book of Abstracts of the 11th NAPRECA Symposium, Antananarivo, Madagascar.
 15. **Anti plasmodial flavonoids from the stem and root bark of *Erythrina abyssinica***. **S. Derese**, A. Yenesew, M. Induli, B. Irungua, J.O. Midiwo, M Heydenreich, M.G. Peter, Hoseah Akala , Julia Wangui, Pamela Liyala, and Norman C. Waters (2005). Book of Abstracts of the 11th NAPRECA Symposium, Antananarivo, Madagascar.
 16. **Rotenoids from *Millettia* and *Derris* species as larvicidal agents**. Yenesew, **S. Derese**, E. Mushibe, J.O. Midiwo, M Heydenreich, M.G. Peter (2005). Book of Abstracts of the 11th NAPRECA Symposium, Antananarivo, Madagascar.
 17. **Radical scavenging activities of two pterocarpenes from the root bark of *Erythrina abyssinica***. **Solomon Derese**, Abiy Yenesew, Beatrice Irungu, Jacob

- O. Midiwo, Mathias Heyendreich, Martin G. Peter. 4th International meeting “Dietary antioxidants, trace elements, vitamins and polyphenols-functional and clinical aspects in humans”. 16-20, April 2005, Monastir, Tunisia.
18. Anti-plasmodial flavonoids from the stem and root bark of *Erythrina abyssinica*. The 5th International conference of the Kenya Chemical Society, August 2005, Kenyatta University, Kenya.
 19. **Surface exudate compounds from some Kenyan medicinal plants: Anti-oxidant potential of the non-polar flavonoids.** Jacob O. Midiwo, Yenesew, A., **Derese, S.** and Kerubo, L.
 20. **Anti-plasmodial rotenoids of *Millettia usaramensis*.** August 2002, The Kenya chemical Society 4th International Conference, ARC Hotel, Egerton University, Njoro, Kenya.
 21. **Bioactive Compounds from Kenyan ethno-medicinal Plants.** Midiwo, J. O., Yenesew, Abiy, Juma, B. F., **Derese, S.**, Ayoo, J. A., Aluoch, A.O., Guchu, S. International Symposium of the Phytochemical Society of Europe. Lausanne, Switzerland. September, 2001.
 22. **Bioactive Compounds from Kenyan Ethnomedicinal Plants.** J.O. Midiwo, A. Yenesew, B.F. Juma, **Solomon Derese**, J.A. Ayoo, A.O. Aluoch and S. Guchu (2001). Book of abstract of the “9th NAPRECA symposium on Natural Products” Nairobi, Kenya.
 23. **Two isoflavones from *Millettia dura*.** **Solomon Derese**, J.O. Midiwo and Abiy Yenesew (2001). Book of abstract of the “9th NAPRECA symposium on Natural Products” Nairobi, Kenya.
 24. **Phytochemical Studies on Popular Kenyan Medicinal Plants.** J.O. Midiwo, A. Yenesew, B.F. Juma, **Solomon Derese**, J.A. Ayoo, A.O. Aluoch, Kerubo, L. and S. Guchu (2001). Book of Abstract of the IOCD International Symposium, Bamako, Mali.
 25. **Bioactive compounds from Kenyan Ethno-medicinal plants.** J.O. Midiwo, A. Yenesew, B.F. Juma, **Solomon Derese** and L. M. Arot (1999). Book of Abstract of the 3rd International Conference of the Kenya Chemical Society, JKUAT, Juja.
 26. **Flavonoids of the root and stem bark of *Erythrina burttii* and *Erythrina abyssinica*.** **Solomon Derese**, A. Yenesew and J.O. Midiwo (1999). Book of Abstract of the 3rd International Conference of the Kenya Chemical Society, JKUAT, Juja.
 27. **Flavonoids of the root and stem bark of *Erythrina burttii* and *Erythrina abyssinica*.** A. Yenesew, **Solomon Derese**, and J.O. Midiwo (1999). Book of Abstract of the 8th NAPRECA Symposium on Natural Products, Gaborone, Botswana.
 28. **Chemotaxonomy of some Kenyan *Hypericum* species.** **Solomon Derese**, J.O. Midiwo (1999). Book of abstract of the “Second International Symposium on Chemistry, Biological and Pharmacological Properties of African Medicinal Plants”. Addis Ababa, Ethiopia.

Editor of Symposium Book of Proceedings and Extended Abstracts

1. Derese S. (Editor). Natural Products from African Biodiversity. 14th NAPRECA symposium and AAMPS ethnoveterinary medicine symposium; 2011.
2. J.O. Midiwo, A. Yenesew and S. Derese. (Editors). Natural Products and Drug Discovery. Proceedings of the 11th NAPRECA Symposium on Natural Products (2007).
3. J.O. Midiwo, C. Langat, J.M. Onyari, I.O. Ndiege, A. Yenesew, S. Derese and T.O. Akenga (Editors): Unraveling of the Socio-Economic Potential of African Biodiversity through Natural Product Research: Proceedings of the 9th NAPRECA Symposium on Natural Products, Nairobi, Kenya, August, 2003.

Research grants

- Grand Challenge Canada, Canada, \$ 100,000 for development a database of natural products of Kenya for the design of antiplasmodial compounds using CADD tools.
- Novartis Institute of Biomedical Research, Massachusetts, USA, Equipment and Laboratory supplies worth \$ 10,000.
- Royal Society of Chemistry (RSC), UK, £2,500.
- International Science Foundation (IFS), Sweden, \$ 5,000

Professional Activities

Program officer (2009 – 2014)

The Natural Product Research Network for Eastern and Central Africa (NAPRECA)

Local Management Committee Member (2009 – Present)

The Pan African Chemistry Network (PACN)

Local Management Committee, Secretary (May 2017 – Present)

The Pan African Chemistry Network (PACN)

National Secretary (2010 – 2014)

Kenya DAAD Scholars Association (KDSA)

Treasurer (2015 – Present)

Kenya Chemical Society, Nairobi Chapter

Conferences/Symposia/Workshops Organized

I have organized the following Conferences/Symposia/Workshops together with others:

1. An Introduction to Computational Chemistry and In-silico Visualization, An OpenLab Workshop for Sub-Saharan Africa Scientists, September 9- 11, 2015, Nairobi, Kenya.

2. EDC/DAAD Proposal Writing Workshop, 27-28th May, 2014, Khartoum, Sudan.
3. DAAD – PhD Proposal Training Workshop – 2012 – present.
4. The 15th symposium of the Natural Product Research Network for Eastern and Central Africa (NAPRECA), Khartoum, Sudan, December 7 – 11, 2013.
5. The 14th symposium of the Natural Product Research Network for Eastern and Central Africa (NAPRECA), Nairobi, Kenya, August 8 – 12, 2011.
6. International Year of Chemistry (IYC 2011) Celebrations Launch, March 25th, 2011, University of Nairobi, Central Catering Unit, Nairobi.
7. The 6th Kenya Chemical Society and East and Southern Africa Environmental Chemistry and 8th Theoretical Chemistry in Africa Conference, Mombasa, Kenya, October 5-10, 2009.
8. Pan Africa Chemistry Network (PACN) – Sustainable water conference and pre-conference workshop on green chemistry and sustainability.
9. The 13th symposium of the Natural Product Research Network for Eastern and Central Africa (NAPRECA), Kinshasa, DR Congo, August 10 – 14, 2009.
10. The Impact of post-election crisis on Kenya Higher Education Institutions: Are the ivory towers part of the problem or can they provide direction. Chiromo campus, UoN, August 8th 2008.
11. The 12th symposium of the Natural Product Research Network for Eastern and Central Africa (NAPRECA), Kampala, Uganda, July 22 – 26, 2007.
12. The 11th symposium of the Natural Product Research Network for Eastern and Central Africa (NAPRECA), Antananarivo, Madagascar, August 9 – 12, 2005.
13. The 9th symposium of the Natural Product Research Network for Eastern and Central Africa (NAPRECA), Nairobi, Kenya, August 27 – 31, 2001.

Activities and Interests

- Hiking** Climbed Mount Kenya (2009) and Mount Kilimanjaro (2010) (the two highest peaks in Africa) with Killi Rovers, University of Nairobi
- Marathon** Finished the Standard Half Marathon (2009, 2010, 2014 and 2015)
- Community service** Motivational talk to University and high school students

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