



THE 5TH NAPRECA-ZIMBABWE
RESEARCH SYMPOSIUM
10 DECEMBER 2020 09:00-12.15



COVID-19



NATURAL PRODUCTS RESEARCH
FOR EASTERN AND CENTRAL
AFRICA-ZIMBABWE
(NAPRECA-ZIMBABWE)



Natural Products Remedies: Present and Future Prospects

Topic: UZ NAPRECA-ZIMBABWE INTERNATIONAL RESEARCH
SYMPOSIUM 2020

Time: Dec 10, 2020 09:00 AM Harare, Pretoria

Join Zoom Meeting

<https://universityofzimbabwe.zoom.us/j/91299023164?pwd=L2wreHNXNmt0VnA3U3padmlpeDRsQT09>

Meeting ID: 912 9902 3164

Passcode: 486043

The Natural Products Research Network for Eastern and Central Africa (NAPRECA) is a non-political, non-sectarian, non-governmental and non-profit making scientific body devoted to the study, promotion and development of the science of all aspects of natural products, including their botany, chemistry, biological activity and economic exploitation.

The 5th NAPRECA –ZIMBABWE symposium will focus on the dissemination of results on research of natural products under the theme “**Natural Products Remedies: Present and Future Prospects**” from African and the world biogenetic resources, in the development of pharmaceuticals and other remedy products through chemistry, botany, pharmacology, biotechnology and other sciences

The symposium will cover all areas of research and disciplines related to natural products chemistry including: **Phytochemistry, Bioactivity of Natural Products, Ethnobotany, Drug bio discovery from natural products.**



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10-Dec-20		
THEME: "Natural product remedies: present and future prospects."		
Time	Event	Event Person
8:45-8:55	Registration	Secretary
8:55-9:00	Welcome Remarks	Prof. S. Mukanganyama
9:00-9:30	Plenary Lecture 1	Prof. A. Yenesew
9:30-9:45	Short Presentation 1	Prof. D. Tagwireyi
9:45-10:00	Short Presentation 2	Dr. T. Reid
10:10-10:15	VIRTUAL TEA BREAK	
10:15-10:45	Plenary Lecture 2	Prof. S. Mukanganyama
10:45-11:00	Short Presentation 3	Prof. L. Kerubo
11:00-11:30	Plenary Lecture 3	Dr. N. Mavengere
11:30-11:45	Short Presentation 4	Ms. W. Chipato
11:45-12:15	AGM	Secretary
12:15-12:25	Closing Remarks	Ms. W. Chipato



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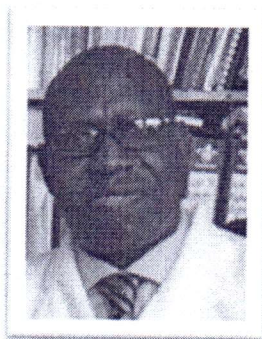
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FOREWORD

On behalf of the NAPRECA-ZIMBABWE Executive committee, I would like to welcome each and every person to the 5th NAPRECA-ZIMBABWE Research Symposium held virtually with the support of the University of Zimbabwe. COVID-19 has changed the way we operate and, therefore, the research symposium has become web-based. Despite that, we are still able to reach out to colleagues far away in their home countries or across Zimbabwe so that they make their contributions. Unlike our 4th meeting of 2018, this year's edition will be scaled down in terms of speakers but I still hope participants can still enjoy the presentations in the comfort of their homes or offices. For those who attending for the first time, be prepared from diverse issues on natural products based on the theme: **"Natural Products Remedies: Present and Future Prospects"**.

Natural Products Research Network for Eastern and Central Africa-Zimbabwe was found in 2010 after Dr. S. Mukanganyama was given a mandate by NAPRECA in Kinshasa DRC (2009) to establish the Zimbabwe Chapter. This is because when NAPRECA was formed in 1984, Zimbabwean Scientists were among the pioneer participants but in the subsequent meetings, there was no representation from Zimbabwe on NAPRECA activities. Local stakeholder meetings were held in 2009- 2010, leading to the establishment of a committee to run the Zimbabwe chapter. Eventually the chapter was established and had Dr. D. Tagwireyi as the inaugural President. Prof. Jacob Midiwo (Department of Chemistry, University of Nairobi), the past NAPRECA President then graced us with his presence in 2013 when a 3-day hands-on training workshop was held at the Department of Chemistry (University of Zimbabwe). Since then, Zimbabwean Scientists have been consistently attending the biannual Main NAPRECA Meetings held in Sudan (2013), Ethiopia (2017) and Egypt (2019) in addition to the Local Chapter Meetings.

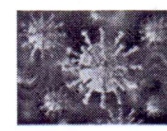
The field of natural products Research has progressed steadily in Zimbabwe and we are pleased and proud to host the 5th NAPRECA-Zimbabwe Research Symposium 2020. We acknowledge the great financial sponsorship from the International Science Programmes (Uppsala University, Sweden) and the University of Zimbabwe, Department of Biochemistry and Biotechnology, where we are currently accommodated. On behalf of the organizing committee, we extend a pleasant and warm welcome to all participants and we hope you will have fruitful and engaging discussions on the theme **"Natural Products Remedies: Present and Future Prospects"**. Stay safe and remember COVID 19 is still with us.



Prof. Stanley Mukanganyama



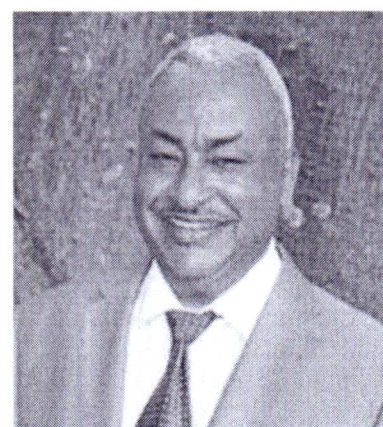
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Prof. Abiy Yenesew has extensive experience in teaching of Organic Chemistry and conducting research in the field of Natural Products. Chemistry at Addis Ababa University and **the University of Nairobi**. His research interest is on investigation of Eastern African plants for bioactive natural products. He has co-authored over 100 articles in peer reviewed journals and three books on medicinal plants of East Africa. He has served as a reviewer for several journals. He is a subject editor of Phytochemistry Letters. He is an Editorial Board member of the Journal of Natural Products and also Journal of Ethnopharmacology. He has established wide collaborative partnership. I have supervised fifteen PhD and thirty five MSc students; currently is supervising five PhD and five MSc students. He has also served as the Programme Officer and later as the Assistant Secretary of the Natural Product Research Network for Eastern and Central Africa (NAPRECA). He is a Fellow of the African Academy of Science as of February 2017.



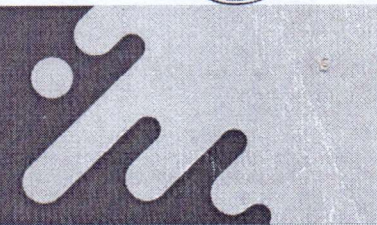
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Dr Natasha Mavengere is a Senior Lecturer in the Biotechnology and Biochemistry department at the University of Zimbabwe (UZ). She received a BSc. Biochemistry and Biology degree as well as a BSc (Hons) Biology degree from the same university. After that, her interest in natural products led her to study actinobacteria for her MSc and PhD Biotechnology degrees at the University of the Western Cape in South Africa. Dr Mavengere identified a novel antibiotic producing actinobacteria for her MSc, and novel nitrile hydrolysing enzymes produced by actinobacteria for her PhD. A portion of the latter work was carried out at the Karlsruhe Institute of Technology in Germany. After a brief postdoctoral fellowship at Stellenbosch University in South Africa, she spent 4 years as the Senior Scientist at Quorus Biotech, a Cape Town based start-up. The lessons she learnt from this led her to represent Zimbabwe with her own biotech start-up at Onebio in 2019, as well as working on a collaborative project with other women Scientists at TechWomen 2020. Her current research interests include actinobacterial antibiotic discovery, enzyme production for the food industry, as well as cost-effective methods for wastewater treatment.