

بسم الله الرحمن الرحيم

CURRICULUM VITAE

Dr. Rashid Ibrahim Mohamed Ahmed Mohukker

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I. PERSONAL DATA

Address: Department of Botany, Faculty of Science, University of Khartoum, P.O. Box: 321, PC: 11115, Khartoum, Sudan.
Gender: Male
Marital status: Married
Nationality: Sudanese
Date of Birth: 1/2/1970
Place of Birth: El Fashir City, Northern Dar Fur State, Western Sudan
Current Position: Lecturer (Assistant Professor)
Language: Arabic (mother tongue), English (excellent), German (Good)

II. EDUCATION

Primary School: Ashamallia School, El Fashir, 1983
Intermediate School: Ashajara School, Khartoum South, Khartoum State, 1986
Secondary School: Al Mogran School, Khartoum State, 1990
University Education: Department of Botany, Faculty of Science, University of Khartoum, Sudan, 1995
Higher Education: Graduate College, University of Khartoum, M.Sc., 2000, Ph.D., 2009

III. QUALIFICATION

1995	B.Sc. In Botany (Honrs.) First Class & University Prize , Department of Botany, Faculty of Science, University of Khartoum.
2000	M.Sc. Microbiology (Plant Pathology), , Graduate College, University of Khartoum Title of Thesis: Studies on the Ecology, Etiology and Pathogenicity of <i>Nattrassia mangiferae</i> (<i>Hendersonula toruloidea</i> Nattrass 1933) on Selected Tree Flora from Central Sudan.
2009	Ph.D. (Plant Pathology), , Graduate College, University of Khartoum Title of Thesis: Potential of Indigenous Fusaria, Rhizobacteria and their metabolites to inhibit <i>Striga</i> -seed Germination.

IV. POSTS HELD

2010-present	Assistant Professor, Department of Botany, Faculty of Science, University of Khartoum, Khartoum, Sudan.
2008-2010	Lecturer, Department of Botany, Faculty of Science, University of Khartoum, Khartoum, Sudan.
2005	Promoted to lecturer at Department of Botany, Faculty of Science, University of Khartoum, while doing research in Germany.
2004-2007	PhD Researcher, Department of Molecular Phytopathology and Mycotoxin Research, University of Goettingen, Goettingen, Germany
2000-2004	Teaching Assistant with Lecturer financial achievements, Department of Botany, Faculty of Science, University of Khartoum, Khartoum, Sudan.
1996-2000	Teaching Assistant, Department of Botany, Faculty of Science, University of Khartoum, Khartoum, Sudan.

V. DEPARTMENTAL & ACADEMIC RESPONSIBILITIES

17-28/8/2014	Trainee at the Training Course for the employee of the Plant Protection Directorate, Plant Quarantine Laboratory of the Ministry of Agriculture, Khartoum, in the field of Fungal Plant Diseases.
2012/2013 2013/2014	Examination Officer (Chairman of Examination Committee), Department of Botany, Faculty of Science, University of Khartoum, Khartoum, Sudan.

VI. UNDERGRADUATE TEACHING RESPONSIBILITIES

1996-2000	Teaching Assistant, Department of Botany, Faculty of Science, University of Khartoum, Khartoum, Sudan.
1996-1998	Teaching Assistant, Faculty of Science, University of El Nilein, Khartoum, Sudan.
1997-1999	Teaching Assistant, Faculty of Science, International Africa University, Khartoum, Sudan.
2000-2004	Teaching Assistant with Lecturer financial achievements, Department of Botany, Faculty of Science, University of Khartoum, Khartoum, Sudan.
2010-present	Lecturer, Department of Botany, Faculty of Science, University of Khartoum, Khartoum, Sudan.
2012/2013 2013/2014	Part-Time Lecturer, 4 th Year, Department of Botany, Faculty of Science, Omdurman Islamic University, Omdurman, Sudan.

VII. SUBJECTS TAUGHT (At Uninversity of Khartoum and Omdurman Islamic University)

Third Year	Mycology
Fourth Year	Basics of Plant Pathology
Fifth Year	Basic and Introduction to Molecular Plant Pathology
Between 1996-2000, practical classes has been demonstrated to students in various disciplines taught in Botany Department, Universities of Khartoum, El Nilein, and International Africa Universities.	

VIII. TRAINING

4 th -15 th /9/2006	Course in "Molecular Genetic Methods in Plant Pathology", Plant Pathology and Plant Protection, Department of Crop Sciences, University of Goettingen, Goettingen, Germany.
2005/2006	Course in "Basic Techniques in Plant Pathology and Agricultural Entomology", Plant Pathology and Plant Protection, Department of Crop Sciences, University of Goettingen, Goettingen, Germany.
22/11/2004-25/3/2005	German Language Course, S.P.E.A.K., Marburg, Germany
1997	Training course in Developing Teaching Skills and Preparation of Principles for Staff Members, Faculty of Education, University of Khartoum, Khartoum, Sudan.
1998	Training course in Computer Sciences, Institute of Developmental Studies, University of Khartoum, Khartoum, Sudan.
12/1995-5/1996	Training Course on Biological Nitrogen Fixation (BNF), BNF Unit, National Research Center, Khartoum, Sudan.

XI. AWARDS, SCHOLARSHIPS AND PRIZES

2005-2007	DAAD (German Academic Exchange Service) Scholarship (Ph.D. Sandwich-program), Molecular Phytopathology and Mycotoxin Research, Department of Crop Sciences, University of Goettingen, Germany. Desk: 413, Codenumber: A/04/38451.
1997-1999	In-Country DAAD Scholarship (for M.Sc. students), Botany Department, Faculty of Science, University of Khartoum, Sudan. Codenumber: A/97/22271.
1995	University Prize for the Best Final Year Student in Botany, University of Khartoum.

X. SUPERVISION OF POST GRADUATE RESEARCH STUDENTS

2013-present	Co-Supervisor to Miss Sarra Mohamed Osman, MSc (Botany, Microbiology), title of thesis Exploration of the Potential of some <i>Pseudomonas</i> Isolates as Biological Control Agents of Brommrape (<i>Orobanche crenata</i> Forsk.) on Faba beans (<i>Vicia faba</i> L.).
2013-present	Co-Supervisor to Miss Muna Asheikh, PhD (Botany, Microbiology), title of thesis Exploration of the Potential of some <i>Pseudomonas</i> Isolates as Biological Control Agents of Brommrape (<i>Orobanche ramosa</i> Forsk.) on Faba beans (<i>Vicia faba</i> L.).
2015-	Co-Supervisor to Mr. Mohammed Elwagia Ali Elwagia, PhD (Crop Protection, Uni. of Khartoum), title of thesis: Molecular Characterization of <i>Alternaria</i> spp. and Mycotoxin Production in main Solanaceous crops in Sudan.
2015-	Main Supervisor to Miss Shoumos Ata Almanan, MSc (Botany, Microbiology), title of thesis: Potential of indigenous <i>Streptomyces</i> to produce metabolites with bioactivity to <i>in vitro</i> and <i>in vivo</i> inhibit <i>Striga</i> seeds germination.

XI. B.Sc. (HONOURS) STUDENTS

2008-2015	About 20 dissertations of Honours Students tackling various topics have been supervised:
2008	Assessment of Phenazine-1-carboxylic acid and Phenazine-1-carboxamide production by <i>Pseudomonas sp.</i> and <i>Streptomyces spp.</i>
2010	Seed-borne Fungi of selected local wheat varieties
2010	Culture Interaction between <i>Nattractia mangiferae</i> Natrass and <i>Streptomyces</i> , <i>Pseudomonas</i> and <i>Bacillus</i> species
2011	Effect of <i>Streptomyces</i> species and their metabolites on <i>in vitro</i> growth of <i>Nattractia mangiferae</i> Natrass
2011	Fungi isolated from naturally diseased <i>Striga hermonthica</i> (Del.) Benth
2011	Biochemical and molecular characteristics of some rhizobia isolated from <i>Medicago sativa</i> L.
2011	Effect of metabolites produced by selected <i>Streptomyces spp.</i> on <i>in vitro</i> germination of <i>Striga</i> -seeds
2012	Characterization of <i>Nattractia mangiferae</i> (Natrass 1933) isolates from different sources
2012	Effect of different media on production of selected <i>Streptomyces</i> metabolites <i>in vitro</i> inhibitory to <i>Striga</i> -seeds germination
2011	Seed-borne fungi of selected sorghum varieties cultivated in the Sudan
2013	Aspergilli associated with Grains of Some Local Varieties of Sorghum
2013	Aspergilli associated with Groundnuts from Selected Areas in Western Sudan
2013	Consistency of inhibitory effect of metabolites produced by selected two isolates of <i>Streptomyces</i> on <i>in vitro</i> <i>Striga hermonthica</i> seed-germination
2014	Effect of one year storage on <i>Aspergillus flavus</i> incidence on Groundnuts from Om Dafoog area in Southern Darfur
2014	Potential of peptone sucrose broth to inhibit <i>Striga hermonthica</i> germination in Pot experiments
2014	Effect of one year storage on <i>Aspergillus flavus</i> incidence on Groundnuts from selected areas in Northern-Kordofan
2015	Presence of <i>Drechslera sp.</i> in stems of faba bean (<i>Vicia faba</i> L.) with wilt and dry root-rot disease in Shambat Farm
2015	<i>Rhizoctonia sp.</i> associated with wilt and dry root-rot of chickpea (<i>Cicer arietinum</i> L.) in Shambat Farm
2015	<i>Fusarium solni</i> associated with wilt symptoms of guar (<i>Cyamopsis tetragonoloba</i> L.) in Eldamazzin area
2015	Association of <i>Rhizoctonia sp.</i> with wilt and dry root-rot of faba bean (<i>Vicia faba</i> L.) in Shambat Farm

XII. PROFESSIONAL EXAMINATION EXPERIENCE

2013	Inter alia examiner of MSc student Heyam Salih Mohamed Title of thesis: Molecular Identification and Phylogenetic Analysis of Viruses Associated with Garlic (<i>Allium sativum</i> L.) and Pumpkin (<i>Cucurbita maxima</i> Duchesne) in Sudan.
2015	Inter alia examiner of MSc student Noura Khalil Ahmed Fagir Title of thesis: Utilization of Morphological and Molecular Markers to Assess the Heritability of Bacterial Leaf Blight Resistance Trait in Sesame (<i>Sesamum indicum</i> L.).

XIII. RESEARCH PROJECTS

2011-2013	Group-Member of Sorghum-Project funded by Ministry of Higher Education and Scientific Research, Sudan. Project title: Biochemical and Molecular Approaches Towards Improving Yield Stability and Nutritive Value of Sorghum in Sudan.
2016-2019	Group-Member of <i>Alternaria</i> -Project funded by Ministry of Higher Education and Scientific Research, Sudan. Project title: Molecular Characterization of <i>Alternaria</i> spp. and biological control of early blight disease in Sudan.

XIV. CONFERENCES/ MEETINGS/ WORKSHOPS

3-4 Feb. 2014	The 3 rd Conference on Pests Management in Sudan, Agricultural Research Corporation, Crop Protection Research Centre, Wad Madani, Sudan.
27 June – 4 July 2010	International meeting for DAAD alumni from developing countries on: MICROALGAE: Sustainable Resource for Energy & Chemical Feedstock Production – Scientific Aspects and Industrial Applications, Technical University of Braunschweig, Braunschweig, Germany.
16-17 March 2006	Tagung des Arbeitskreis Mykologie/Wirt-Parasit-Beziehungen an der BBA Berlin, Berlin, Germany.

XV. RESEARCH INTERESTS

1	Biological control of parasitic weeds (<i>Striga</i> , <i>Orobancha</i> spp.) using microorganisms (Fungi and bacteria) and/or their metabolites.
2	<i>Fusarium</i> mycotoxins: Detection and Analysis
3	Molecular detection of toxinogenic fungi and their toxins in food & feed.

XVI. PUBLICATIONS

1	Mohukker R.I., Hetwer, U., Ahmed, N.E., and Karlovsky, P.2014. <i>Inhibition of Striga-seed germination by phenazine-1-carboxylic acid and phenazine-1-carboxamide</i> .Abstract, The 3 rd Conference on Pests Management in Sudan, Agricultural Research Corporation, Crop Protection Research Centre, Wad Madani, Sudan. P. 98.
2	Mohukker R.I., Hetwer, U., Ahmed, N.E., and Karlovsky, P.2014. <i>Fusarium nygamai and Fusarium abuharaz selected for biocontrol of Striga hermonthica (Del.) Benth in Sudan produce fumonisins</i> .Abstract, The 3 rd Conference on Pests Management in Sudan, Agricultural Research Corporation, Crop Protection Research Centre, Wad Madani, Sudan. P. 97.
3	Mohukker R.I., Hetwer, U., Ahmed, N.E., and Karlovsky, P.2012. Mycotoxins produced by <i>Fusarium</i> spp. isolated from <i>Striga hermonthica</i> (Del.) Benth. in Sudan. <i>Sudan Journal of Sciences</i> 5 : 2-15.
4	Zahrn, E., Sauerborn, J., Abbasher, A.A., Ahmed, E.A., Mohukker, R.I., Karlovsky, P., Mohamed, E.A., and Müller-Stöver, D. 2008. "Pesta" and alginate delivery systems of <i>Fusarium</i> spp. for biological control of <i>Striga hermonthica</i> (Del.) Benth. under Sudanese field conditions. <i>Biol. Control</i> 44 : 160-168.
5	Mohukker, R.I.M. and Yassin, A.M. 2002. Anatomical aspects of branch wilt disease caused by <i>Nattrassia mangiferae</i> Nattrass in <i>Ficus benjamina</i> (L.). <i>Sudan Journal of Basic Sciences</i> 3 : 133-140.
6	Mohukker, R.I.M. and Yassin, A.M. 2001. A note on resistance of four tree species to branch wilt epidemic caused by <i>Nattrassia mangiferae</i> (<i>Hendersonula toruloidea</i> Nattrass) in the Sudan. <i>University of Khartoum Journal of Agricultural Sciences</i> 9 (2): 306-310.

XVII. PAPERS IN PREPARATION FOR SUBMISSION

1	Bioactivity of <i>Fusarium</i> spp. metabolites against selected prokaryotes and eukaryotes.
2	<i>Sphingomonas</i> and <i>Curtobacterium</i> species isolated from naturally diseased <i>Striga hermonthica</i> (Del.) Benth in Sudan.

XVIII. REFERENCES

1	Prof. Dr. Nafisa El Mahi Ahmed, (Plant Pathologist), Crop Protection Center, Agricultural Research Corporation, P.O. Box: 126 Wad Medani, Sudan. Mobile: +249-91-2362002. E.mail: nafisaahmed@yahoo.com , nafahmed@yahoo.com ,
2	Prof. Dr. Adel Ali El Hussein, (Microbiologist), Department of Botany, Faculty of Science, University of Khartoum, P.O. Box: 321 PC: 11115, Khartoum, Sudan. Mobile: + 249-91-232845. E. mail: adilelhussein@hotmail.com
3	Prof. Dr. Sayadat El Tigani Ahmed, (Plant Physiologist), Department of Botany, Faculty of Science, University of Khartoum, P.O. Box: 321 PC: 11115, Khartoum, Sudan. Mobile: + 249-91-2608241. E. mail: alicooooo5@hotmail.com

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