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| AGCO South Africa (Pty) Ltd  16 Pomona Road  Johannesburg, Gauteng, Gauteng 1619  South Africa | benard.ngwene@agcocorp.com  Phone: +27112308648  Mobile: 0027760500471 |

Benard Ngwene, Dr. rer. agr.

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| *Date/place of birth* | 08.12.1970 at Bota – Victoria, Cameroon |
| *Nationality* | German |

Education

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| *Nov 2006 – Jan 2011* | **Humboldt-Universität zu Berlin, Germany**  PhD, Plant Nutrition  Berlin, Germany |
| *Apr 2003 – Feb 2006* | **Humboldt-Universität zu Berlin, Germany**  MSc, Agricultural sciences  Berlin, Germany |
| *Sep 1993 – July 1996* | **University of Buea, Cameroon**  B.Sc (Hons), Biochemistry  Buea, Cameroon |

Job Experience

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| *Jan 2018 – present* | **Agricultural Advisory Manager, Africa**  AGCO Corporation,  Johannesburg, Gauteng, South Africa |
| *Nov 2013 – Dec 2017* | **Scientist Position**  Leibniz-Institute of Vegetable and Ornamental Crops, Quality  Großbeeren, Germany |
| *Jan 2011 – Oct 2013* | **PostDoc Position, Department of plant nutrition**  Leibniz-Institute of Vegetable and Ornamental Crops, Quality / Plant nurition  Großbeeren, Germany |

Awards & Grants

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| *Nov 2006* | Scholarship: Yousef Jameel Scholarships, Humboldt-Universität zu Berlin |

Languages English, French, German

Scientific and Professional Memberships

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|  | * South African Council for Natural Scientific Professionals * German Plant Nutrition Society * African crop science society * American Society of Agricultural and Biological Engineers |

Key panel discussions and invited talks

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|  | * Agribusiness in Africa “Positioning agriculture as a business and economic sector”, SIMA African Summit, Paris France, 26.02.2019, SIMA. * Regional expert consultation on underutilized crops for food and nutrition security in Asia and the Pacific, Bangkok Thailand, 13-15.11.2017, APAARI * Documenting adoption of Natural Resource Management (NRM) practices, Rome Italy, 16-17.12.2015, FAO * Promoting and expanding the use of underutilized fruit and vegetable diversity, Accra Ghana, 26.09.2013, FAO |

Publication Highlights

Book Chapters

Wael Yakti, Diana Rocío Andrade-Linares, Benard Ngwene, Michael Bitterlich, Gábor M Kovács, Philipp Franken: *Phosphate Nutrition in Root–Fungus Interactions*. Endophytes for a growing world, 03/2019: chapter 6; Cambridge University Press., ISBN: 9781108471763, DOI:10.1017/9781108607667.007

Conference Proceedings

Sven Peets, P.A. Misiewicz, S. Woods, B. Ngwene, J. Burbidge, G.R. Barlow: Mechanization of smallholders in Sub-Saharan Africa by agrodealer development 2019 ASABE Annual International Meeting. doi:10.13031/aim.201901285. Boston, Massachusetts, 07/2019

B Ngwene, J Mertens, T Splettstößer, E Gabriel, E George: *Influence of mineral nitrogen sources (NO 3 − -N vs. NH 4 + -N) on arbuscular mycorrhiza development and N transfer in a Rhizophagus irregularis symbiosis*. Eighth International Conference on Mycorrhizas (ICOM8), Northern Arizona University, Flagstaff, Arizona; 08/2015

Selected Journal Publications

Zhifang Li, Benard Ngwene, Ting Hong, Eckhard George: *Effects of nitrogen feeding for extraradical mycelium of Rhizophagus irregularis maize symbiosis incorporated with phosphorus availability*. Journal of Plant Nutrition and Soil Science 05/2019;, DOI:10.1002/jpln.201800674

Grace A. Odongo, Nina Schlotz, Susanne Baldermann, Susanne Neugart, Benard Ngwene, Monika Schreiner, Evelyn Lamy: *Effects of Amaranthus cruentus L. on aflatoxin B1- and oxidative stress-induced DNA damage in human liver (HepG2) cells*. Food Bioscience 09/2018; 26., DOI:10.1016/j.fbio.2018.09.006

Susanne Neugart, Susanne Baldermann, Benard Ngwene, John Wesonga, Monika Schreiner: *Indigenous leafy vegetables of Eastern Africa — A source of extraordinary secondary plant metabolites*. Food Research International 10/2017; 100:411-422., DOI:10.1016/j.foodres.2017.02.014

Benard Ngwene, Susanne Neugart, Susanne Baldermann, Beena Ravi, Monika Schreiner: *Intercropping Induces Changes in Specific Secondary Metabolite Concentration in Ethiopian Kale (Brassica carinata) and African Nightshade (Solanum scabrum) under Controlled Conditions*. Frontiers in Plant Science 09/2017; 08:1700., DOI:10.3389/fpls.2017.01700

A. Noorani, R. Nono-Womdim, S. Padulosi, B. Ngwene: *Interventions for mainstreaming underutilized crop species in developing regions*. Acta horticulturae 11/2016;, DOI:10.17660/ActaHortic.2016.1128.4

S. Baldermann, L. Blagojević, K. Frede, R. Klopsch, S. Neugart, A. Neumann, B. Ngwene, J. Norkeweit, D. Schröter, A. Schröter, F. J. Schweigert, M. Wiesner, M. Schreiner: *Are Neglected Plants the Food for the Future?*. Critical Reviews in Plant Sciences 06/2016;, DOI:10.1080/07352689.2016.1201399

B. Ngwene, S. Boukail, L. Söllner, P. Franken, D. R. Andrade-Linares: *Phosphate utilization by the fungal root endophyte Piriformospora indica*. Plant and Soil 12/2015; 405(1)., DOI:10.1007/s11104-015-2779-8

Benard Ngwene, Elke Gabriel, Eckhard George: *Influence of different mineral nitrogen sources (NO3 --N vs. NH4 +-N) on arbuscular mycorrhiza development and N transfer in a Glomus intraradices-cowpea symbiosis*. Mycorrhiza 07/2012; 23(2)., DOI:10.1007/s00572-012-0453-z

Benard Ngwene, Eckhard George, Winfried Claussen, Elke Neumann: *Phosphorus uptake by cowpea plants from sparingly available or soluble sources as affected by nitrogen form and arbuscular‐mycorrhiza‐fungal inoculation*. Journal of Plant Nutrition and Soil Science 06/2010; 173(3):353 - 359., DOI:10.1002/jpln.200900203