

Dr. Angela Köhler

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Curriculum vitae

Wissenschaftlicher Werdegang

seit 2016	Wissenschaftliche Koordinatorin, Leibniz Institut für Naturstoff-Forschung und Infektionsbiologie - Hans Knöll Institut, Jena
2012 - 2016	Postdoc, University of Neuchâtel, Switzerland: Maize chemical defences, insect herbivores and biocontrol agents
2009 - 2012	Postdoc, University of Pretoria, South Africa: Effects of nectar toxins on honey bees
2007 - 2009	Promotion, University of Pretoria: Energetic challenges of bird pollinators
2002 - 2006	Studium Biologie/Zoologie, Martin-Luther-

Publikationen

Wondraczek L, Pohnert G, Schacher FH, Köhler A, Gottschaldt M, Schubert US, Küsel K, Brakhage AA (2019) Artificial microbial arenas: Materials for observing and manipulating microbial consortia. *Adv Mater* 31(24), e1900284. (Review)

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PAPER

Maag D, Köhler A, Robert CA, Frey M, Wolfender JL, Turlings TC, Glauser G, Erb M (2016) Highly localized and persistent induction of Bx1-dependent herbivore resistance factors in maize. *Plant J* 88(6), 976-991.

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Köhler A, Maag D, Veyrat N, Glauser G, Wolfender JL, Turlings TC, Erb M (2015) Within-plant distribution of 1,4-benzoxazin-3-ones contributes to herbivore niche differentiation in maize. *Plant Cell Environ* 38(6), 1081-1093.

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Archer CR, Köhler A, Pirk CW, Oosthuizen V, Apostolides Z, Nicolson SW (2014) Antioxidant supplementation can reduce the survival costs of excess amino acid intake in honeybees. *J Insect Physiol* 71, 78-86.

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Maag D, Dalvit C, Thevenet D, Köhler A, Wouters FC, Vassão DG, Gershenzon J, Wolfender JL, Turlings TC, Erb M, Glauser G (2014) 3-β-D-Glucopyranosyl-6-methoxy-2-benzoxazolinone (MBOA-N-Glc) is an insect detoxification product of maize 1,4-benzoxazin-3-ones. *Phytochemistry* 102, 97-9105.

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Nicolson SW, de Veer L, Köhler A, Pirk CW (2013) Honeybees prefer warmer nectar and less

viscous nectar, regardless of sugar concentration. *Proc Biol Sci* 280(1767), 20131597.

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Köhler A, Pirk CW, Nicolson SW (2012) Simultaneous stressors: interactive effects of an immune challenge and dietary toxin can be detrimental to honeybees. *J Insect Physiol* 58(7), 918-923.

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Köhler A, Pirk CW, Nicolson SW (2012) Honeybees and nectar nicotine: deterrence and reduced survival versus potential health benefits. *J Insect Physiol* 58(2), 286-292.

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Köhler A, Raubenheimer D, Nicolson SW (2012) Regulation of nutrient intake in nectar-feeding birds: insights from the geometric framework. *J Comp Physiol B* 182(5), 603-611.

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Köhler A, Leseigneur CD, Verburgt L, Nicolson SW (2010) Dilute bird nectars: viscosity constrains food intake by licking in a sunbird. *Am J Physiol Regul Integr Comp Physiol* 299(4), R1068-R1074.

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