

Leipziger Strasse 14
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PD Dr. MOHAMMAD RAHNAMAEIAN

CURRICULUM VITAE

PERSONAL INFORMATION

Born on 05.01.1981
German, married



PROFESSIONAL APPOINTMENTS

- | | |
|-------------------|---|
| since 06.2018 | Resident Representative
<i>Azad University (IAU), Germany</i> <ul style="list-style-type: none">• Representing IAU in Germany• Coordination of international cooperation |
| since 08.2017 | Privatdozent
<i>Justus Liebig University, Giessen, Germany</i>
<i>Venia Legendi: Agrobiotechnology</i> |
| 10.2011 - 05.2018 | Group Leader Antimicrobial Peptides
<i>Department of Bioresources, Fraunhofer Institute for Molecular Biology and Applied Ecology, Giessen, Germany</i> |
| 10.2009 - 09.2011 | Assistant Professor
<i>Department of Plant Biotechnology, Shahid Bahonar University, Kerman, Iran</i> |
| 05.2009 - 09.2009 | Research Associate
<i>Department of Applied Entomology, Justus Liebig University, Giessen, Germany</i> |

ACADEMIC QUALIFICATIONS

- | | |
|-------------------|--|
| since 11.2020 | Pharmacy
<i>Philipps University, Marburg</i> |
| 10.2011 – 07.2017 | Habilitation: Agrobiotechnology
<i>Institute for Insect Biotechnology, Justus Liebig University, Giessen</i>
<i>Venia Legendi: Agrobiotechnology</i> |
| 08.2005 – 04.2009 | Doctor of Philosophy: Plant Biotechnology
<i>Institute for Phytopathology, Justus Liebig University, Giessen</i>
Thesis: Ectopic expression and functional analysis of antimicrobial activity of the fruit fly peptide Metchnikowin in barley |
| 08.2002 – 07.2005 | Master of Science: Agrobiotechnology
<i>University of Mazandaran, Iran</i>
Thesis: Study the aroma controlling locus in domestic and exotic varieties of rice |
| 08.1998 – 02.2002 | Bachelor of Science: Agricultural Engineering – Agronomy and Plant Breeding
<i>University of Mazandaran, Iran</i> |

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TECHNICS (SELECTED)

- **Microbiology:** Culturing, enumerating, identifying, aseptic, antibacterial and antifungal assays, etc.
- **Molecular Biology:** Phylogenetic studies, immobilized metal affinity chromatography, gene transfer using *Agrobacterium*, Southern blot, confocal laser scanning microscopy, gene cloning, sequencing analysis, gene expression study, Northern blotting, quantitate RT-PCR, isolation of antimicrobial peptides, immobilized metal affinity chromatography, protein purification using His6 tag, Western blotting, cytotoxicity assay, hemolysis assay, cloning of dsRNA sequences, gene transfer using protoplast transformation, stress assays, flow cytometry and FACS, Cell culture, Microarrays, Molecular markers, subcloning, TA cloning, Yeast two-hybrid screening, etc.

PUBLICATIONS (SELECTED)

- Bolouri Moghaddam MR, Gross T, Becker A, Vilcinskas A, **Rahnamaeian M**. 2017. The selective antifungal activity of *Drosophila melanogaster* metchnikowin reflects the species-dependent inhibition of succinate–coenzyme Q reductase. *Scientific Reports* 7:8192.
- **Rahnamaeian M**, et al. 2015. Insect antimicrobial peptides show potentiating functional interactions against Gram-negative bacteria. *Proceedings of the Royal Society B* 282(1806), pii: 20150293. DOI: 10.1098/rspb.2015.0293.
- **Rahnamaeian M**, Vilcinskas A. 2015. Short antimicrobial peptides as cosmetic ingredients to deter dermatological pathogens. *Applied Microbiology and Biotechnology* 99(21):8847-55.
- **Rahnamaeian M**, et al. 2009. Insect peptide metchnikowin confers on barley a selective capacity for resistance to ascomycetes fungal pathogens. *Journal of Experimental Botany* 60(14):4105-4114.

➔ Complete list of publications: <https://scholar.google.de/citations?user=tf0f23YAAAAJ&hl=de&oi=ao>

TEACHING EXPERIENCES

Entomology / Molecular Entomology / Insect Biotechnology

Justus Liebig University, Giessen, Germany

Plant Hormones and Tissue Differentiation / Tissue Culture and Micro-propagation / Advanced Genetics / Advanced Plant Breeding / Genetic Engineering

Shahid Bahonar University, Kerman, Iran