

## Faculty Profile

*Joint Research and Education Programme "Palestinian-German Science Bridge PGSB"  
Forschungszentrum Jülich GmbH & Palestine Academy for Science and Technology*

### Personal Details

Title*	Degree	First name*	Surname*
Mr.	DegreePhD	RADWAN	BARAKAT

Home university and faculty/department*	E-mail*
Hebron University, College of Agriculture, Dept. of Plant Production & Protection	radwanb@hebron.edu

### Degrees with date, topics and granting institutions\*

<input type="checkbox"/> BSc	Date: 1985	Topic: Plant Protection	Institution, country: University of Jordan, Amman, JORDAN
<input type="checkbox"/> MSc	Date: 1988	Topic: Plant Protection	Institution, country: University of Jordan, Amman, JORDAN
<input type="checkbox"/> PhD	Date: 1992	Topic: Plant Pathology	Institution, country: Washington Stae University, Pullman, WA, USA
<input type="checkbox"/> other	Date:	Topic:	Institution, country:

### Current position and teaching activities at home university\*

Director, Plant Protection Research Center, Faculty member, Dept. of plant Production & Protection; teaching undergraduate and graduate courses in the fields of mycology and plant pathology.
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### Research/collaboration experience abroad

1- Role of phytohormones in the interaction of phytopathogenic fungi and their host plants in cooperation with the University of Münster in Germany.
2- Plant improvement for resistance to biotic and abiotic stress, using agricultural biotechnology in cooperation with the Max-Planck Institute in Cologne, Germany.
3- Effect of organic amendments on the level of soil suppressiveness to plant diseases: application to integrated control of diseases induced by <i>Fusarium oxysporum</i> and <i>Rhizoctonia solani</i> in cooperation with INRA of Dijon, France.
4- Studying the potential of <i>Trichoderma</i> species native to Palestinian agricultural soil in biocontrol of soilborne plant-pathogenic fungi in cooperation with GEF/SGP of the United Nation Development Program (UNDP/PAPP).
5- Biocontrol of Armyworms with the Entomopathogenic Fungi <i>Nomuraea rileyi</i> and <i>Beauveria bassiana</i> in cooperation with the U.S. Agency for International Development (USAID).
6- Integrated broomrape management in legumes in cooperation with the U.S. Agency for International Development (USAID).
7- Early stages of pathogenesis in plant pathogenic fungi in cooperation with the University of Münster in Germany.

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8- Molecular interaction between mango and *Fusarium mangiferae*: Simultaneous analysis of host and pathogen transcriptomes in cooperation with the University of Frankfurt in Germany.

9- Development of novel tools for modulation of multifactorial plant stress tolerance using key regulators of biotic and abiotic signaling in cooperation with the University of Bonn in Germany.

**Foreign scholarships (e.g. DAAD, ...; also from other nations)**

AMIDEAST scholarship for PhD

**Research fields/topics of interest\***

- 1- Plant-microbe interactions
- 2- Biological control of plant pests, pathogens, and weeds
- 3- Soil solarization as a safe method for control of soilborne plant pathogens
- 4- Entomopathogenic fungi
- 5- Early events of pathogenesis

**Collaboration interest in Jülich**

Relevant institute/group in Jülich (starting from [http://www.fz-juelich.de/portal/EN/Research/\\_node.html](http://www.fz-juelich.de/portal/EN/Research/_node.html) or [http://www.fz-juelich.de/portal/EN/AboutUs/organizational\\_structure/Institutes/\\_node.html](http://www.fz-juelich.de/portal/EN/AboutUs/organizational_structure/Institutes/_node.html) if you have no personal contacts yet)\*

Institute of Bio- and Giosciences (IBG 1 and 2)

Number and background of potential candidates for thesis projects

**Date\***

**Signature\***

October 16,  
2016

Radwan Barakat

\* required field

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