

Dr. Rabia Ghaffar
Assistant Professor,
Department of Botany,
University of the Punjab, Lahore, Pakistan.
e mail:;, rabia.ghaffar@outlook.com
Phone office: +92-42-99231152/0333 8087672

Education:

2015 PhD in Plant Sciences, (University of Vienna-Austria)
2009 Master of Philosophy, Industrial Biotechnology (GC University Lahore)
2001 Master of Science, Botany (Government College Lahore)
1999 Bachelor of Science, Life Sciences (Queen Mary College Lahore)
1997 Faculty of Science, Life Sciences (Queen Mary College Lahore)
1995 Matriculation, Science (Queen Mary School Lahore)

Theses:

PhD: Chloroplasts Adapted to Shade: Correlative Microscopy of Exceptionally Specialized Plastids in *Selaginella erythropus*

MPhil: Ethanol fermentation of apple juice for the production of cider vinegar

MSc: Optimization of the Cultural Conditions for the Production of Amyloglucosidase by the mutant strain of *Aspergillus niger*

Teaching and Research:

Assistant Professor (IPFP-HEC): Assistant professor on IPFP by HEC in the Department of Botany at University of The Punjab (Dec 2015- Dec 2016).

Assistant Professor: Department of Botany at University of The Punjab (Dec 2016 to date).

Responsibilities in University of the Punjab:

Member of scholarship committee

Member of Botanical Garden Committee

-ii-

Member of Herbarium Committee

Member of Employees' Affairs Committee

Guided Study tours

Faculty Assistant at the University of Vienna:

1. Ecology and Physiology of cells. (2013-14), CIUS, University of Vienna
 2. Ecology of organisms from heavy metal sites. (2013-14), CIUS, University of Vienna
 3. Teaching at International Summer Schools;
 - Bio Remediation of Heavy Metals (BIOREM) University of Vienna, Austria
 - Microscopy School University of Vienna, Austria
 - European Student School University of South Bohemia Nove Hradky, Czech Republic
- AND in Pakistan
Sacred Heart Cathedral Girls High School, Lahore (2001-2007)

Participation in Schools & Advanced Courses

1. "Microscopy Winter School: Practical Course in Advanced Microscopy" January 17-21, 2011. Swiss Federal Institute of Technology Zurich (ETH), University Zurich (Switzerland).
2. "Cryo-techniques for electron and light microscopy" December 2012. Core Facility of Cell Imaging & Ultrastructure Research, University of Vienna (Austria).

Presentations of the research work:

Talks:

1. “Microanatomy of chloroplasts: the photosynthetic tools from deep shade plants” March 12, 2012, Science Day (2012), University of Vienna (Austria)
- iii-
2. “Microanatomy of chloroplasts: the photosynthetic tools from deep shade plants” June 7-10, 2012, 19. Tagung der Austrian Society of Plant Biology (ATSPB), Lienz, Osttirol (Austria)
 3. “Correlative microscopy of unique chloroplasts from *Selaginella erythropus*” January 18, 2011, Swiss Federal Institute of Technology Zurich (ETH), University Zurich (Switzerland)

Posters:

1. “Correlative microscopy of chloroplasts from the deep shade plant *Selaginella erythropus*” Tagung der Austrian Society of Plant Biology (ATSPB), June 03-05, 2010, Illmitz, (Austria)
2. “3D analysis of chloroplasts *in vivo* from the deep shade plant *Selaginella erythropus*” June 29-01 July, The Microscience International Conference, Royal Microscopy Society 2010, London (UK)
3. “Correlative microscopy of chloroplasts from the deep shade plant *Selaginella erythropus*” June 29-01 July, The Microscience International Conference, Royal Microscopy Society 2010, London (UK)
4. “Imaging and Processing of Live Cells” The 9th Botanical Microscopy Meeting, April 16-21, 2011, Wageningen University (Netherlands)

Research Facilities Visited:

- Swiss Federal Institute of Technology Zurich (ETH), University of Zurich, Switzerland (2011) for Advanced Microscopy
- November 14 – December 2, 2011, Vienna Bio-Center (Austria) “Practical Course Hands-On Cryo-Preparation Techniques for Immuno-EM and Tissue-ISH”
- The Institute for Chemical and Physical Processes (IPCF), International Research Council, Pisa, Italy (CNR)

-iv-

Partial Fundings:

- Scholarship “Hochschuljubiläumsstiftung Der Stadt Wien, Austria (2010/2011)”
- “Partial Support for PhD Studies Abroad, by HEC-Pakistan (2011)”
- Scholarship “Förderungsstipendium Universität Wien (2012)”

Research Skills:

- Plant and cell biology
- Light microscopy
- Electron microscopy
- Correlative microscopy
- Super-resolution microscopy
- Development of quantification of size and form of various cells and their organelles
- Scientific reports and technical presentations

Experimental Techniques & Computational Tools:

- Plant cells preparation protocols for chemical and cryo-electron microscopy
- Cell and tissue preparation for confocal microscopy
- Scanning electron microscopy
- Environmental scanning electron microscopy
- Transmission electron microscopy
- Laser confocal imaging for fixed and living cells
- Fluorescence *in situ* hybridization techniques
- DAIME: Digital analysis and image processing software
- 3D volume calculator
- Adobe Photoshop professional

- Adobe premiere video editing
- Including all microscope operational software
- Etc.

-v-

Personal Information:

- Father name: Khalid Waheed
- Date of birth: December 20, 1979 (Lahore-Pakistan)
- Nationality: Pakistani
- Marital status: Married, one daughter
- Languages: English, Urdu, Punjabi, German

Contact:

- Postal address: House 146, Street 2, GS-I Larex Colony, Garhi Shahu Lahore