

Dr. Nadir Zaman

Personal Information

Born: 12/04 1982

Nationality: Pakistani

Sex: Male

Address (work): Department of Biotechnology, University of Malakand, Dir (Lower), KPK, Pakistan.

Address (home): 62, Street 5, Sector A, Gulberg Model Town, Mohabbat Abad, Mardan, KPK, Pakistan.

E-mail: nadir.zaman@uom.edu.pk, agrarian82@gmail.com

Phone: +92335-0012196

Education

- 2013 PhD in plant molecular biology from the Department of Biological and Environmental Sciences, University of Gothenburg, Sweden. Thesis on "Vesicle transport with emphasis on chloroplasts". ISBN: 978-91-85529-52-0. <http://hdl.handle.net/2077/32126>.
- 2007 M.Phil degree in Biotechnology and Genetic Engineering with 82% Marks from Institute of Biotechnology and Genetic Engineering (IBGE), University of Agriculture Peshawar, Pakistan. Thesis on "To Study Ionic Specificity in Rice Response to Salt Stress".
- 2005 B.Sc (Hons) degree in agriculture (specialization in Plant Breeding and Genetics) with 83.9% Marks from NWFP University of Agriculture Peshawar, Pakistan. Special problem on "Performance of Maize hybrids for yield and yield components".
- 2000 Higher Secondary School Certificate (Biology, Physics, Chemistry) with 67% Marks from Board of Intermediate and Secondary Education (BISE) Peshawar Pakistan.
- 1998 Secondary School Certificate (Science) with 77% Marks from Board of Intermediate and Secondary Education (BISE) Peshawar Pakistan.

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Work Experience

- 27/05/2013
till
present Working as Assistant professor at the Department of Biotechnology, University of Malakand.
- 03/04/2013
till
26/05/26 Worked as Assistant professor on contract at the Department of Biotechnology, University of Malakand.
- 01/01/2006
till
31/12/2006 Worked in a project on "Cross Adaptation and Invitro Development of Salt Tolerant Lines of Rice" at Institute of Biotechnology and Genetic Engineering (IBGE), NWFP Agricultural University Peshawar, Pakistan.
- 19/08/2013 Selected as "approved PhD supervisor" by Higher Education Commission.

Language

- Pashto Native language
- Urdu Fluent, in speaking, reading and in writing
- English Fluent, in speaking, reading and in writing
- Swedish Limited understanding

Research interest

Plant cell and molecular biology, Chloroplast import , vesicular transport, Plant Physiology, Biotic and abiotic stress, Bioinformatics, plant biotechnology etc.

Technical Proficiency

Electroporation of cDNA into bacteria, growth of bacterial cell cultures, Cloning, Agrobacterium mediated transformation, Gel electrophoreses, western blot, PCR, protein purification, protein over expression, plasmid DNA Isolation and purification, chloroplast isolation and fractionation, in vitro transcription/translation, protein import into chloroplasts, determination of protein localization, protein-protein interaction, bioinformatics, etc. I have worked on Arabidopsis, Spinach Wheat and rice plants

Other skills

Practical knowledge of various computer software programs such as word processing, data analysis, graphical presentation of data, preparation of images for publications and home page productions.

Conferences and workshop attended

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|------------------------------------|--|
| 6-9 th May, 2009 | Poster Presentation in EMBO international conference on Plant Molecular Biology, Cadiz, Spain |
| 9-12 th June, 2009 | Poster Presentation in workshop on “Chloroplasts- its interaction with environment” in Gothenburg University, Sweden. |
| 26 June-1 st July, 2010 | Poster presentation in international research conference on Molecular of life arranged by FEBS in Gothenburg, Sweden. |
| 6-9 th June, 2012 | Poster Presentation in workshop on “Interaction, modulation and analysis” at Roscoff, France. |
| 29-31 st August, 2012 | Poster Presentation in workshop attended arranged by ENPER |
| 7 th May 2014 | Participated in one day Seminar on ‘Raising Awareness on Zoonotic and Environmentally transmitted diseases’, University of Malakand, Pakistan. |
| 19-22 August 2014 | Participated in National Conference on ‘Innovative Technologies and Sustainable Development in Agriculture’, Summer Campus, Bara Gali, University of Peshawar, Pakistan. |
| 25 th April 2016 | Participated in one day seminar on ‘International DNA Day Celebrations’ at University of Malakand, Pakistan. |
| 23-27 may 2016 | Participated in workshop on ‘Teaching and Research’ at University of Malakand. |
| 22-25 August 2016 | Participated in 15 th international Chemistry Conference at University of Malakand, Pakistan. |
| 28-30 November 2016 | Participated in National Conference ‘THINK-ADAPT’ at the University of Agriculture Peshawar |
| 16-17 November 2016 | Participated in 2 nd Invention to innovation Summit, KPK, Organized by University of Engineering and Technology, Peshawar, Pakistan |
| 17 th December | Participated in 4th International Conference on |

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- 2016 Biological and computer Sciences at Capital University of Science and Technology, Islamabad, Pakistan
- 03-07 April 2017 Participated in training Workshop on English for Academic Purposes at university of Malakand, Pakistan.
- 5-6 April 2017 Organizing an International Conference on 'Causes and Consequences of HIV/AIDS in Rural and Urban Communities in Pakistan' at university of Malakand, Pakistan
- 27-29 September 2017 Participated in 4th National Conference on 'Computational Biology and Genomics' at Hazara University Mansehra, Pakistan.
- 01-02 November 2017 Participated in training workshop on "Quantitative data analysis using SPSS, AMOS and EVIEWS" at University of Malakand, Pakistan
- 15 November 2017 Participated and organized training workshop on "Biosafety and Biosecurity for Scientists" at University of Malakand, Pakistan.

Research Projects

Received Competitive research grant of 4,5 million under the Scheme of National research program for universities (NRPU) from Higher Education Commission in 2017 (Ongoing)

Publications

Garcia, Christel, **Nadir Zaman Khan**, Ulf Nannmark, and Henrik Aronsson. "The chloroplast protein CPSAR1, dually localized in the stroma and the inner envelope membrane, is involved in thylakoid biogenesis." *The Plant Journal* 63, no. 1 (2010): 73-85. (IF: 6.94)

Nadir Zaman Khan Christel Garcia, and Henrik Aronsson. "Genes co-expressed with CPSAR1 identified using ATTED-II." *Plant signaling & behavior* 5, no. 9 (2010): 1141-1143.

Nadir Zaman Khan Emelie Lindquist, and Henrik Aronsson. "New putative chloroplast vesicle transport components and cargo proteins revealed using a bioinformatics approach: an Arabidopsis model." *PLoS One* 8, no. 4 (2013): e59898. (IF: 3.534)

Kasmati, Ali Reza, Mats Töpel, **Nadir Zaman Khan**, Ramesh Patel, Qihua Ling, Sazzad Karim, Henrik Aronsson, and Paul Jarvis. "Evolutionary, molecular and

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genetic analyses of Tic22 homologues in Arabidopsis thaliana chloroplasts." *PloS one* 8, no. 5 (2013): e63863. (IF: 3.534)

Karim, Sazzad, Mohamed Alezzawi, Christel Garcia-Petit, Katalin Solymosi, **Nadir Zaman Khan**, Emelie Lindquist, Peter Dahl, Stefan Hohmann, and Henrik Aronsson. "A novel chloroplast localized Rab GTPase protein CPRabA5e is involved in stress, development, thylakoid biogenesis and vesicle transport in Arabidopsis." *Plant molecular biology* 84, no. 6 (2014): 675-692. (IF: 4.257)

Sjögren, Lars LE, Noriaki Tanabe, Panagiotis Lymperopoulos, **Nadir Zaman Khan**, Steven R. Rodermeil, Henrik Aronsson, and Adrian K. Clarke. "Quantitative analysis of the chloroplast molecular chaperone ClpC/Hsp93 in Arabidopsis reveals new insights into its localization, interaction with the Clp proteolytic core, and functional importance." *Journal of Biological Chemistry* 289, no. 16 (2014): 11318-11330. (IF: 4.573)

Alezzawi, Mohamed, Sazzad Karim, **Nadir Zaman Khan**, and Henrik Aronsson. "Gene expression pattern for putative chloroplast localized COPII related proteins with emphasis on Rab related proteins." *Plant signaling & behavior* 9, no. 3 (2014): e59898.

Nadir Zaman Khan Emelie Lindquist, Mohamed Alezzawi, Henrik Aronsson. "What human medicine may benefit from plastid vesicle transport in the future." *Mini Reviews in Medicinal Chemistry* 17, (2017): 1128-1139. (IF: 2.66)

Mohammad Aasim, Muhammad Hidayatullah Khan, Noor Shad Bibi, **Nadir Zaman Khan**. "Protein adsorption onto Monoliths- A surface energetic study". *Engineering in Life Sciences* (2018). 16: 179-186 (IF: 1.698)

Ruven Jilly, **Nadir Zaman Khan**, Henrik Aronsson and Dirk Schneider. "Dynammin-like proteins are potentially involved in inner membrane dynamics in Chloroplasts and Cyanobacteria". *Frontiers in Life Sciences* (2018) (09) 206 (IF: 4.298)