



CV

Dr. Nadir Ali Rind

Department of Molecular Biology and Genetics
Shaheed Benazir Bhutto University, Shaheed Benazir Abad
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EDUCATION

Doctor of Philosophy (Ph.D.)

“Genetics”

Institute of Biotechnology & Genetic Engineering, University of Sindh, Jamshoro, Pakistan

Research Topic: “Study of Genetic Variability and Production of Limonoids through *In-vitro* Culture of Chinaberry (*Melia Azedarach L*)”

BS (H) 4 Years.

“Genetics”

Institute of Biotechnology & Genetic Engineering, University of Sindh, Jamshoro, Pakistan

Obtained PercentageCGP: 3.40 (73.76%).

Research Topic:Anti-diabetic Effect of Medicinal Plants (Cinnamon, Garlic and Ginger) used to Control Diabetes Mellitus in Alloxan-Induced Diabetic ale Rabbits.

Higher Secondary School (Pre-Medical)

Mazhar Muslim Model Higher Secondary School Ranipur,
Board of Intermediate & Secondary Education Sukkur, Sindh

Obtained Percentage 72.29%

Secondary School Certificate (Biological Sciences)

High School Wali Dad Khan Lund,
Secondary School Certificate Education Sukkur, Sindh

Obtained Percentage 72.7%

PROFESSIONAL EXPERIENCE

1. Currently working as an **Assistant Professor-Genetics** at Department of Molecular Biology and Genetics Shaheed Benazir Bhutto University, Shaheed Benazir Abad, Pakistan. February 18, 2019 up to date.
Job Description: Teaching of various courses to B.S Genetics classes. Guide the B.S Genetics students’ in their Research.
2. ORIC (Office of Research Innovation and Commercialization) Manager, Sindh Madressatul Islam University, Karachi, Pakistan August 1, 2018 to February 16, 2019.
Job Description: Managed the portion of Executive Development of ORIC where arranged many workshops and conferences and guest lectures at SMIU, Karachi, Pakistan.
3. ‘Teaching Assistant’ at Institute of Biotechnology and Genetic Engineering, University of Sindh, Jamshoro, Pakistan, January 01, 2013 to May 30, 2017 and December 22, 2017 to May 31, 2018.
Job Description: Teaching of various courses to B.S Biotechnology & Genetics, BS/MSc. Biotechnology classes. Supervision and Co- Supervision of B.S Genetics, M. Sc. Biotechnology and Genetics research scholars.
4. ‘**Research Associate**’ HEC Research Project, 05-August-2010-28-December-2012, sponsored by Higher Education Commission (HEC), Islamabad, Pakistan Institute of Biotechnology and Genetic Engineering (IBGE) Genetics, University of Sindh
Job Description: Completed Research work on “Production, Isolation and Purification of limonoids Through *In-Vitro* Culture of *Azadirachta indica A. Juss* and *Melia azadirach L*” at IBGE Genetics, University of Sindh.

5. **‘Research Fellow’** ‘TUBITAK (Türkiye Bilimsel ve Teknolojik Araştırma Kurumu) Project-2216’. Faculty Arts and Sciences, Kocaeli University Turkey. October-14-2014 to October-14-2015
Job Description: Completed the project “Study of Genetic variability and production of limonoids through in vitro culture of Chinaberry (*Melia azedarach* L)” at Faculty Arts and Sciences, Kocaeli University Turkey.
6. **Teacher:** Government Degree College Thari Mirwah on honorary bases. 01-February-2009 to 31-December-2009

RESEARCH INTEREST

Plant Molecular Genetics for the Study of Polymorphism and environmental effect on plants genome.

Study of Plant cell and tissue culture for the production of bioactive pharmaceutical compounds and their characterization and Purification DNA isolation

Study of the different cytotoxic effect of different chemicals on plants cell and genome

Genetic transformation through electroporation, PCR, ELISA, Western blotting techniques

LIST OF PUBLICATIONS

1. Rafiq, M. N. Ali, M. Malhi, S. H.A. Naqvi, M. U. Dahot (2017). Production of Azadirachtin Contents from Immature Flowers Derived *In Vitro* Cultures of *Azadirachta indica* A. Juss, *Fresenius Environmental Bulletin*, 26(3): 2056-2065. [IF: 0.38]
2. Francesco Fazio , Syed Sikandar Habib , Saira Naz , Francesco Filiciotto , Nicola Cicero , Hameed Ur Rehman , Shagufta Saddozai , Khalid Hussain Rind , **Nadir Ali Rind** & Akhtar Hussain Shar (2021). Effect of fortified feed with olive leaves extract on the haematological and biochemical parameters of *Oreochromis niloticus* (Nile tilapia). *Natural Product Research* (Taylor and Fransics). 1-6. DOI: 10.1080/14786419.1883606. [IF:1.8]
3. Javed Ali Lakho, Aneela Taj, **Nadir Ali Rind** , Syed Habib Ahmed Naqvi1. Phytochemical Analysis of *Salvadora oleoides* and *Withania somnifera* (2021): An Insight into Their Antioxidant and Antimicrobial Capabilities. *Journal of Drug Design and Medicinal Chemistry*. 7(1): 5-11
4. Salih Dikilitas, Burçak Tütünoğlu, Özlem Aksoy, **Nadir Ali Rind** (2018). The Cytotoxic Effects of Benzoic Acid and Coumarin on *Allium cepa* var. *cepa*. *Journal of Functional And Environmental Botany*, 1(2):1-6.
5. Mangrio, A.M., M. Rafiq, S.H.A.Naqvi, S.A. Junejo, S.M. Mangrio and **N.A. Rind** (2016) Evaluation of phytochemical constituents and antibacterial potential of *Avicennia marina* and *Rhizophoramucronata* from Indus delta of Pakistan, *Pak J of Biotechnol* 13(4): 259-265.
6. **Rind, N.A.**, O. Aksoy, M. U. Dahot, S. Dikilitaş, M. Rafiq, B. Tutunoglu (2016) Evaluation of genetic diversity through RAPD markers among *Melia azedarach* L (Chinabery). *Fresenius Environmental Bulletin* 25(7): 2374-2382. [IF: 0.38]
7. **Rind, N.A.**, M.U Dahot, S.A Malik, M Kumar (2010) Antidiabetic effect of Cinnamon (*Cinnamomum zeylanicum*) used to control diabetes mellitus in alloxan induced diabetic male rabbits. *Pakistan Journal of Biotechnology* 7 (1/2), 81-90
8. **Rind, N.A.**, M.U.Dahot, S.A Malik, M Kumar, M Bhutto, M Rafiq (2013). Comparative Antihyperglycemic activity of Aqueous Extracts of Garlic (*Allium Sativum*) and Genger (*Zingiber Officinale*) in Alloxin Induced Male Rabbits. *Pakistan Journal of Biotechnology* 10(2): 53-62.
9. Rafiq, M., M.U.Dahot, S.H.A. Naqvi and **N. Ali** (2013) Insecticidal Activity of Azadirachtin related Limonoids from Callus and Cells Suspension Extracts of Neem against Jassids, Whitefly and Thrips. *Pak J. Biotechnol* 10(1):11-20.
10. Rafiq, M., M. U. Dahot, S. H. Naqvi, M. Mali and **N. Ali** (2012) Efficacy of Neem callus and cells suspension extracts against three lepidopteron insects of cotton. *Journal of Medicinal Plant Research* 6(40): 5344-5349. [0.89]
11. **Nadir Ali Rind**, Muhammad Rafiq , Muhammad Umar Dahot , Özlem Aksoy , Hafiza Faiza , Khalid Hussain Rind , Abdul Majeed Mangrio (2020). Genetic diversity study of chinaberry plants with the use of molecular markers. *Journal of Biodiversity and Environmental Sciences* (JBES). 16(01):91-98.
12. Piar Ali Shar, Jay Kumar Sootaher, Zahoor Ahmed Soomro, Tanweer Fatah Abro, Akhtar Hussain Shar, Muhammad Saleem Chang, Ayaz Ali Soomro, **Nadir Ali Rind**, Khalid Hussain Rind (2020). 32. Interrelationship for yield and yield associated traits in mustard (*Brassica juncea* L.). *Pure and Applied Biology (PAB)*. Volume 9(3): 1988-1994. <http://dx.doi.org/10.19045/bspab.2020.90212>.

13. Hafiza Faiza, **Nadir Ali Rind**, Muhammad Rafiq, , Muhammad Umar Dahot (2020). Study of genetic variability of local Oregano (*Origanum vulgare*) through RAPD markers. *Journal of Biodiversity and Environmental Sciences (JBES)*. (16(3): 48-55.
14. Naseem Khatoon ,Beena Naqvi , Najum-u-Sahar, **Nadir Ali Rind** , Muhammad Rafiq , M Umar Dahot (2020). Study of biochemical and phytochemical parameters in local variety of barley (*Hordeum vulgare*) under saline conditions. *International Journal of Biosciences | IJB* |16 (1).427-434.<https://dx.doi.org/10.12692/ijb/16.1.427-434>.
15. Habib-Ur-Rehman, , Muhammad Nasir, Makhdoom Abdul Jabbar,, Muhammad Ayaz, Muhammad Asif Ali, Muhammad Imran, Tanweer Aslam Gondal,, TabussamTufail,, Farhan Aslam1, Sham Lal, **Nadir Ali Rind**, BahareSalehi, Natália Martins, JavadSharifi-Rad (2020). Effects of galacto-oligosaccharide prebiotics in blood profile of severely acute malnourished children. *Cellular and Molecular Biology*. 66(4):37-44. Doi: <http://dx.doi.org/10.14715/cmb/2020.66.4.7> [1.3]
16. Abdul Majeed Mangrio , Muhammad Rafiq , Zhanwu Sheng , **Nadir Ali Rind** , Mai Farzana Bibi Korejo , Syed Habib Ahmed Naqvi and Sher Muhammad Mangrio (2021). Comparative Study Of Growth And Biochemical Attributes of *Avicennia Marina* (Forssk.) Vierh of Indus Delta and In Vitro Raised Plants Established At Jamshoro, Sindh Pakistan. *Pak. J. Bot.*, 53(3) pages 1-9. DOI: 10.30848/PJB-3(3). [0.8]
17. Masood Sadiq Butt, Muhammad Imran, Ali Imran, Muhammad Sajid Arshad, Farhan Saeed, Tanweer Aslam Gondal, Mohammad Ali Shariati, Syed Amir Gilani, Tabussam Tufail, Ishtiaque Ahmad, **Nadir Ali Rind**, Mohamad Fawzi Mahomoodally, Saiful Islam, Zaffar Mehmood (2020). Therapeutic perspective of thymoquinone: A mechanistic treatise. *Food Science and Nutrition*. 1-18. DOI: 10.1002/fsn3.2070. [1.7]
18. Sharaf Ali Rind , Mahboob Ali Dahraj , Insaf Ali Siming , Khalid Hussain Rind , **Nadir Ali Rind** , Allah Ditto Rind. 2019 The level of male and female private school teachers regarding job satisfaction in Sindh. *WALIA journal* 35(1): 90-93.
19. Muhammad Mithal Rind Samy Sayed Hakim Ali Sahito Khalid Hussain Rind **Nadir Ali Rind** Akhtar Hussain Shar Hidayat Ullah Peter Ondrisike Jana Ivani Porhajsova, ZihuGUO, Mohamed Shahan (2021). Effects of seasonal variation on the biology and morphology of the dusky cotton bug, *Oxcarenus laetus* (Kirby). *Saudi Journal of Biological Sciences* Volume 28, Issue 6, June 2021, Pages 3186-3192.[2.8]
20. Piar Ali Shar , Akhtar Hussain Shar, Shabana Memon, Ayaz Ali Soomro, Saleem Ahmed Naich, **Nadir Ali Rind**, Asadullah Laghari, Khalid Hussain Rind, Parkash Meghwar , Sohail Ahmed Otho (2021). Morpho-physiological responses in wheat (*Triticum aestivum* L) influenced by normal and water stress conditions. *Journal of Agriculture and Applied Biology*. Vol. 2, No. 1, 118 – 127
21. H. Faiza, M. Khan, M. Rafiq, A. Ali Khan, **N. Ali Rind**, S. Habib Ahmed Naqvi (2021). Two novel mutations in exon 2 of Bone Morphogenetic Protein (BMP) 15 gene in Pakistani infertile females, *Saudi Journal of Biological Sciences*, doi: <https://doi.org/10.1016/j.sjbs.2021.05.061>. [2.8]
22. Farheen Shaikh, Tazeen shah, Shafaq Ansari, Sanum Ali, Mahammad Saleh Khaskhali, Muhammad Rafiq, **Nadir Ali Rind**, Khalid Hussain Rind. Akhtar Hussain Shar. Frequency distribution and association of Fat-mass and obesity (FTO) gene SNP rs-9939609 variant with Diabetes Mellitus Type-II Population of Hyderabad, Sindh, Pakistan”, *Saudi Journal of Biological Sciences*. IF:[2.8]
23. Syed Sikandar Habib , Francesco Fazio, Saira Naz , Francesca Arfuso , Giuseppe Piccione , Hameed Ur Rehman , Wali Muhammad Achakzai , Muhammad Nazir Uddin , Khalid Hussain Rind, **Nadir Ali Rind** (20210). Seasonal Variations in Haematological Parameters and Body Composition of *Labeo rohita* (Rohu) and *Cirrhinus mrigala* (Mrigal Carp) in River Indus, District Dera Ismail Khan, Pakistan. *Turk. J. Fish.& Aquat. Sci.* 21(9), 435-441 http://doi.org/10.4194/1303-2712-v21_9_02 [0.8].
24. Muhammad Saleem Kubar, Akhtar Hussain Shar, Kashif Ali Kubar, **Nadir Ali Rind**, Hidayat Ullah, Shahmir Ali Kalhoro, Chao Wang, Meichen Feng, Asadullah Gujar, Hui Sun, Wude Yang. Optimizing nitrogen supply promotes biomass, physiological characteristics and yield components of soybean (*Glycine max* L. Merr.). **Accepted**. *Saudi Journal of Biological Sciences*. IF:[2.8]
25. **Nadir Ali Rind** ,Muhammad Rafiq, Muhammad Umar Dahot, Faiza Ubaid, Özlem Aksoy, Khalid Hussain Rind, Akhtar Hussain Shar, Hidayat Ullah, Ashique Hussain Jatoi (2020). Production of Limonoids through Callus and Cell Suspension Cultures of Chinaberry (*Melia Azedarach* L). *Bangladesh Journal of Botany (Accepted)*. [0.15]
26. Naseem Khatoon, Najam-Ul Sahar, Beena Naqvi, **Nadir Ali Rind**, Muhammad Rafiq, Muhammad Ashraf and Muhammad Umar Dahot. Study of Genetic Variation in KCl and Mgcl2 Treated Local Barley (*Hordeum Vulgare* L) With the Use of SSR and RAPD Markers. **Accepted**: *Fresenius Environmental Bulletin*. [0.38]

PARTICIPANT AND PAPERS PRESENTATION IN CONFERENCES/ SYMPOSIA

1. **Poster Presentation:** *In-vitro* Production of Limonoids through Callus cell suspension cultures of *Melia Azedarach L*” International Conference on Biochemistry and Molecular Biology (ICBMB) 22-23 April 2015, Cite International University de Paris, France
2. **Oral presentation:** Antidiabetic effect of medicinal plants (Cinnamon, Garlic and Ginger) used to control diabetes mellitus in alloxan-induced diabetic male rabbits. *New Trends & Advancement in Microbiology*” Department of Microbiology University of Sindh, Jamshoro, Pakistan 18-20-March-2010.
3. Participated in 3rd International Symposium on Biotechnology. Institute of Biotechnology & Genetic Engineering, University of Sindh, Jamshoro, Pakistan 15-18-December 2005.
4. Participated in 1st Pakistan-China-Iran International Conference on Biotechnology-Bioengineering-Biophysical Chemistry. Institute of Biotechnology & Genetic Engineering, University of Sindh, Jamshoro, Pakistan. 06-08-March-2009.
5. Training course on Medical Technology at Punjwani Chemical and Molecular Diagnostic Laboratory (PCMD). University of Karachi, Pakistan. 20-February 2009 to 28-May-2009
6. Internship program at National Institute for Biotechnology and Genetic Engineering (NIBGE) Faisalabad, Pakistan 01-July-2008 to 31-July-2008

RESEARCH AND TRAINING EXPERIENCES

1. Participated in 3 Day KIBGE-PBSA-HSP Workshop for Biosafety and Biosecurity an Advance Biological Risk Mitigation Training Program held August 4-6 2017 at Dr. A. Q Khan Institute of Biotechnology and Genetic Engineering (KIBGE) University of Karachi.
2. Training on International Center for Genetic Engineering and Biotechnology National Academy of Young Scientists (NAYS), Dow Research Institute of Biotechnology and Biomedical Sciences (DRIBBS) and Dow University of Health Sciences. (ICGEB) course on ‘ Basic Biotechnology Techniques’ 28-30-March 2016.
3. Participated in Natural Product-based Drugs and Other Botanicals-present status and future prospects. British Council in HEJ University of Karachi, Sindh, Pakistan. May-16-2009.
4. 1st National training course on Biochemical Techniques. Shah Abdul Latif University Khairpur Mirs, Sindh, Pakistan. 17- 22-March 2008.
5. National Cotton IPM (Integrated Pest Management) program Islamabad. Training 01-05-2004 to 31-10-2004.

COURSES TAUGHT TO BS AND M.Sc. Students

1. Molecular Genetics
2. Medical Genetics
3. Fundamentals of Genetics
4. Cytogenetics
5. Induced Mutagenesis
6. Advance Genetics
7. DNA Synthesis and Mutations
8. Cell and Molecular biology

PERSONAL INFORMATION

Full Name: Dr. Nadir Ali
Father’s Name: Muhammad Yaseen Rind
Present Position: Teaching Assistant (IBGE)
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Place of Birth: Khairpur Mirs, Sindh
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REFERENCES**1.Prof. (R) Dr. Muhammad Umar Dahot**

Professor and Ex-Director & Founder
Institute of Biotechnology and Genetic

M. Sc. /BS Students under Supervision/Co-supervision

S. No	Scholar's Name	Research Topic	Degree	Role	Status
1	Mr. NaimatullahKhokhar	Phytochemical analysis and antimicrobial activity of fruit "Bitter Gourd" (karalla)	BS Genetics	Supervisor	2017
2	Miss RehanaMahar	The phytochemical analyses of EUPHORBIA MILII medicinal plant extracts and their anti-microbial activity with anti-fungal activity	MSc Biot	Supervisor	2017
3	Miss ChandaBakhtawarBaloch	The phytochemical analyses of some medicinal plants extract and their antimicrobial activity with antibiotic drug.	BS Genetics	Supervisor	2017
4	Miss AsmaMoin	Antimicrobial Antioxidant Properties and Biochemical Analysis of Luffa (Torai) In Ethanol, Acetone and Distilled water	BS Genetics	Supervisor	2017
5	Mr. Javed Ali Lakho	Phytochemical analysis and antimicrobial Activity of plants (<i>SalvadoraOleoides</i> and <i>Withaniasomnifera</i>)	BS Genetics	Supervisor	2016
6	Miss. Saima Ali	Phytochemical and Antimicrobial activity of Plants (Coriander, Cardamom, Black paper, Cumin, Fennel, Cinnamon	BS Genetics	Supervisor	2016
7	Miss. NailaGhulamRasool	Biochemical and Antimicrobial Study of Plant Species <i>CordiaMyxa</i> (Lasura) and <i>CordiaGharaf</i> (Liyaar).	BS Genetics	Supervisor	2016
8	Miss. KanwalAsif Khan	Study of Mutagenic effect of Sodium Azide on Phytochemical Aspects and Genetic Polymorphism of (<i>LagenariaSiceraria</i> and <i>CucurbitaPepol</i>)	BS Genetics	Co-Supervisor	2015
9	Miss. SumbulSaeed	In-vitro production, Isolation and quantification of some secondary metabolites from <i>Melia Azedarach</i> L Biotransformation of L. tyrosine in to L.DOPA and determination of secondary metabolites in <i>Melai Azedarach</i> .L Callus cell suspension culture	BS Genetics	Co-Supervisor	2013
10	Miss. Hina Fatima	Determination of Biochemicals and phenolic compounds from <i>in-vitro</i> cultures of Neem (<i>Azadirachta Indica</i> A Jus)	BS Genetics	Co-Supervisor	2013
11	Miss. SamraAfaque		BS Genetics	Co-Supervisor	2013

- 12 Miss. Rahila Imam Bio-transformation of Phenol in to Catechol and Gallic acid in to Pyragalol in *Melia Indica* callus Isolation and Quantification of Some Phytochemicals and Enzyme Activity of different parts of *CaricaPapayaL* M. Sc. Biot Co-Supervisor 2013
- 13 Miss. Alia KazimRizvi Engineering, University of Sindh, Jamshoro, Pakistan Ph.no. +92-22-9239024, +92-345-3557795 E. mail: udahot07@yahoo.com, udahot@usindh.edu.pk BS Genetics Co-Supervisor 2013
2. **Prof. Dr. Muhammad Rafiq.**
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