Dr. Abhishek Vashishtha
Assistant Professor
Department of Microbiology
Maharaja Ganga Singh University,
(Erstwhile; University of Bikaner)
Bikaner-334004

***General Information*:**

Date of birth	:	24-07-1980
Date of joining the present service	:	7-06-2011
Qualifications	:	M.Sc. (Microbiology), Ph.D.
Area of Interest	:	Bioremediation studies, Plant growth promotion
Pay Scale	:	15600-39100 GP 7000 (UGC L-11)
Official Address	:	Department of Microbiology, NH-15, Maharaja Ganga Singh University, Jaisalmer Road, Bikaner -334004 (Rajasthan)
Residential Address	:	C-55/III/16, CAD Quarters, Sector-V, Jai Narayan Vyas Colony, Bikaner-334001 (Rajasthan)
Mobile	:	9829068004
Email	:	abhiv24@gmail.com; drabhishek@mgsubikaner.ac.in

Teaching experience:

Total experience: 16 years P.G. Teaching and 8 years U.G. Teaching (up to year 2020)

Details of Employment

S. No.	Post	Institution	Tenure
1	Assistant Professor (Senior Scale)	Department of Microbiology, Maharaja Ganga Singh University, Bikaner	07-06-2015 to till date
2.	Assistant Professor	Department of Microbiology, Maharaja Ganga Singh University, Bikaner	7-06-2011 to 06-06-2015
3.	Assistant Professor and Incharge, of the Department	Department of Microbiology, Mahatma Gandhi Institute of Applied Sciences, Jaipur	27-8-2003 to 06-06-2011

***Awards*:**

1. Young Scientist Gold Medal Award by Indian Academy of Environmental Sciences
2. Young Scientist Award (II position) in an National Conference on Environmental issues, Toxicology and exposure science" held at Jaipur on 20-21 September 2013

***Administrative and other responsibilities in the University*:**

1. Dean Students' Welfare (Since 2017)
2. Member, Academic Counsel (Vice Chancellor's Nominee since 2018)
3. Member, Board of studies in Microbiology (Since 2012)
4. In- charge, National Service Scheme
5. Chief Election officer for Students Union Elections (Since 2017)
6. Coordinator, P.G. Diploma in Pharmaceutical Microbiology
7. Director, Students Grievance Redressal Cell
8. Co-Coordinator, M.Phil.-Ph.D. Common Entrance Examination (MPCET) – 2016 and 2018) of the University
9. Co-Coordinator, Ph.D. Course work and course work Examination 2014 till date.
10. Co-Coordinator, Question Paper Grievance and Redressal Cell
11. Co-Coordinator, Flying Squad Constitution Committee (2013-2015, 2017-2019)
12. Member, IQAC.
13. Member, Anti Ragging Squad
14. Member, Library Management Committee

***Other important responsibilities held*:**

1. Member, Governing Counsel, Rajasthan Hindi Granth Academy (2018-2019)
2. Board Representative, Rajasthan Eligibility Examination for Teachers-2018 (Bikaner)
3. Special District Observer, Rajasthan Pre Teacher Eligibility Test-2018 (Bikaner)
4. District Coordinator, Basic School Teaching Certificate Pre Entrance Test-2018
5. Member, Committee of Course Book Writers (Science) for 10^{th} class, Board of Secondary Examination, Ajmer.

Books published	:	**02**
Research Publications	:	**23**
Text Book Chapters	:	**09**
Conference attended	:	**28**
Orientation and refresher Courses	:	**1+3**
Research Guidance	:	**02 (Ongoing)**
Invited / Special lectures	:	**11**
Conferences attended	:	**26**

Publications:

Research Papers/Reviews Published:

1. Meghwanshi, G.K., Kaur, N., Verma, S., Dabi, N.K., Vashishtha, A., Charan, P.D., Purohit, P., Bhandari, H., Bhojak, N. and Kumar, R. (2020), Enzymes for pharmaceutical and therapeutic applications. Biotechnology and Applied Biochemistry. doi:10.1002/bab.1919
2. Vashishtha, A. and Meghwanshi, G.K. (2018). Fungi inhabiting in hypersaline conditions: an insight. *In* Fungi and their Role in Sustainable Development: Current Perspectives. Springer Nature Singapore Pvt Ltd, PP. 449-465. https://doi.org/10.1007/978-981-13-0393-7_25, Print ISBN: 9789811303920, eText ISBN: 9789811303937.
3. Meghwanshi, G. K. and Vashishtha, A. (2018). Biotechnology of Fungal Lipases. *In* Fungi and their Role in Sustainable Development: Current Perspectives. Springer Nature Singapore Pvt. Ltd, PP 383-411. https://doi.org/10.1007/978-981-13-0393-7_22, Print ISBN: 9789811303920, eText ISBN: 9789811303937
4. Vashishtha A. and Meghwanshi G. K. (2018). Quorum Sensing and Bacterial Pheromones: A Road to Influence the Local Microbial Environment. *In* Katiyar V and Joshi V. Microbial Research An Overview. PP 89-108. I.K. International Publishing House Pvt. Ltd., New Delhi. ISBN No.: 9789385909443. https://www.ikbooks.com/books/book/life-sciences/microbiology/microbial-research/9789385909443/.

5. Meghwanshi G. K. and Vashishtha A. (2018). Industrial Biocatalysis: A Green Solution to Environmental Safety and Sustainability. *In* Katiyar V and Joshi V. Microbial Research An Overview. PP 153-176. I.K. International Publishing House Pvt. Ltd., New Delhi. ISBN No. : 9789385909443. https://www.ikbooks.com/books/book/life-sciences/microbiology/microbial-research/9789385909443/
6. Vashishtha A. and Meghwanshi G. K. (2018). Hydrocarbon Pollution and factors affecting its Bioremediation. *In* Joshi S.C. and Sharma P. Environmental Toxicology. PP 75-85. Pointer Publishers, Jaipur. ISBN No.: 978-81-7132-883-3. http://www.pointerpublishers.com/details.asp?id=1517.
7. Vashishtha A., Meghwanshi G. K., Lowry M. and Jaroli D.P. (2017). Impact of Petroleum Hydrocarbons on Physico-Chemical Properties and Bacterial Population in Contaminated Soils. *J. Phytol. Res.* 30 (1): 69-81. ISSN 0970-5767. http://www.jphytolres.org/archive/2017.
8. Baid S., Vashishtha A., Ahmed A., Verma S., and Meghwanshi G. K. (2016). Bacterial Keratinase catalyzed Bioremediation of Keratin rich wastes for potential Agricultural and other applications. *J. Phytol. Res.* 29 (1-2): 17-30. ISSN 0970-5767. http://www.jphytolres.org/archive/2016.
9. Vashishtha A., Charan P.D., Meghwanshi G. K. (2015). An Overview of Trichodermal interactions with Pathogens and plants. *J. Phytol. Res.* 28 (1-2) : 15-23. ISSN 0970-5767. http://www.jphytolres.org/archive/2015.
10. Vashishtha A. and Dhawal P.K. (2015). Microbial Osmoadaptation – A Road Towards Sustainability in Extreme Conditions. *In* Singh J. and Gehlot P. Microbes in Action. PP 95-108. Agrobios (India), Jodhpur. ISBN no. : 978-81-7754-537-1. http://agrobiosonline.com/booklist.php?sdx===AUVZ0cW5mTHNlRaNVTWJVU.
11. Vashishtha A. and Meghwanshi G. K. (2015). Biodegradation of Polycyclic aromatic hydrocarbons with special reference to Naphthalene. *In* Singh J. and Gehlot P. Microbes in Action. PP 145-166. Agrobios (India), Jodhpur. ISBN no. : 978-81-7754-537-1. http://agrobiosonline.com/booklist.php?sdx===AUVZ0cW5mTHNlRaNVTWJVU.
12. Meghwanshi G. K. and Vashishtha A. (2015). Application of Enzymes in Food Processing. *In* Singh J. and Gehlot P. Microbes in Action. PP 281-302. Agrobios (India), Jodhpur. ISBN no. : 978-81-7754-537-1.

http://agrobiosonline.com/booklist.php?sdx===AUVZ0cW5mTHNlRaNVTWJVU.

13. Pareek A., Vashishtha A., Moin S. and Menghani E. (2014) Bioreduction of Fluoride in Affected Water Samples of Jaipur by *Oscillatoria* (*Cyanophyta*) Species. *International Journal on Alga.* 16(1): 86–94. ISSN 1521-9429. http://www.dl.begellhouse.com/ru/journals/7dd4467e7de5b7ef,1b3ba09e1acfc644.html.
14. Meghwanshi G.K. and Vashishtha A. (2014). Microalgae as Potential Sources of Biofuels. *J. Phytol. Res.* 27 (1-2): 41-56. ISSN 0970-5767. http://www.jphytolres.org/archive/2014.
15. Vashishtha A. and Meghwanshi G. K. (2014). Approaches towards Biological restoration of Hydrocarbon polluted sites: Bioremediation and phytoremediation. *In* Khan J.B. Environmental Management: challenges and conservation. PP 89-104. Lap Lambert Publishing House, Ag & Co. KG, Dudweller Landstr, Germany. ISBN No.: 978-3-659-57593-8.https://www.lap-publishing.com/catalog/details/store/gb/book/978-3-659-57593-8/environment-management?search=978-3-659-57593-8.
16. Kumari N., Vashishtha A., Saini P. and Menghani E. (2013).Isolation, Identification and Characterization of Oil Degrading Bacteria Isolated from the Contaminated Sites of Barmer, Rajasthan. *Inter. J. Biotechnol. Bioeng. Res.* 4 (5): 429-436. ISSN 2231-1238. http://www.ripublication.com/ ijbbr.htm.
17. Meghwanshi G.K. and Vashishtha A. (2012). Microbial Enzymes: Productions and Applications. *In* 'Recent Trends in Microbiology *Eds* Kapoor B.B.S. and Arora A.83-100.Madhu Publications, Bikaner. ISSN/ ISBN. 81-86644-23-7.
18. Lowry M., Vashishtha A. and Jaroli. D.P. (2012). Adding Available Carbonates-An Inexpensive Method of Recovery of Soil Parameters in Petroleum Hydrocarbon Contaminated Soils. Proceedings of the 3rd International Biotechnology and Biodiversity Conference & Exhibition Harnessing Microbes For A Sustainable Future (ISBN 978-983-44324-2-9) (BIOJOHOR 2012), June 9-11, 2012, Johor Biotechnology & Biodiversity Corporation, Universiti Teknologi Malaysia (UTM).
19. Vashishtha A., Lowry M. and Jaroli D.P. (2011). 'Hydrocarbon Bioremediation: Biotic and abiotic factors'. In 'Recent Advances in Environmental Biotechnology' Eds Jain P. et al, PP 112-145. Lap Lambert Academic Publishing Ag & Co. KG, Dudweller Landstr, Germany. ISBN- 978-3-8443-0687-3. https://www.lap-publishing.com/catalog/details/

/es/book/978-3-8443-0687-3/recent-advances-in-environmental biotechnology?search= -3-8443-0687-3

20. Vashishtha A. (2008). Indian Agriculture Market and its Vulnerability for an Agroterrorist Attack. In 'Bioterrorism and Biological Warfare' Eds Bhatia A.L and Kulshrestha S.K., PP 09-31. Pointer Publishers. India. ISBN 978-81-7132-587-0
21. Pathak H., Vashishtha A., Jain P. K., A. Nagmani, Jaroli D.P. and Lowry M. (2010). Physico-Chemical properties of Petroleum contaminated soil collected from coastal areas of Mumbai. *Asian J.Exp.Sci.*,24 (1):175-178. ISSN: 0971-5444. http://ajesjournal.com/ajes_archives_2010-1.html
22. Vashishtha. A., Lowry M. and Jaroli D.P. (2006). Protein Profile Variations in Halophilic Bacteria in Response to Variations in Salt and Temperature. *Asian J.Exp.Sci.*20(1):35-40. ISSN: 0971-5444. http://ajesjournal.com/ajes_archives_2006-1.html
23. Pareek.A., Vashishtha A. and Sharma P. (2004). Chlorophycean Microalgal Flora of Keoladeo National Park, Bharatpur (Rajasthan). *J.Phytol.Res.* 17(2): 187-189. ISSN: 0970-5764. http://www.jphytolres.org/archive/2004.

Text Books Authored

1. Vigyan (2017) - Class tenth. Published by Rajasthan Pathya Pustak Mandal for Board of Secondary Education, Rajasthan. ISBN no. 978-93-87089-63-1.
2. Science (2018) Class tenth. Class tenth. Published by Rajasthan Pathya Pustak Mandal for Board of Secondary Education, Rajasthan. ISBN no. 978-93-87089-94-5.

Text Book Chapters:

1. Vashishtha A. (2009). Bacteria of Medical Importance. In Microbiology and Biotechnology (Zoology ZO-07). Vardhman Mahaveer Open University, Kota. PP-82-130. ISBN: 13/978-81-8496-009-9.
2. Vashishtha A. (2009). Viruses. In Microbiology and Biotechnology (Zoology ZO-07). Vardhman Mahaveer Open University, Kota. PP-131-152. ISBN: 13/978-81-8496-009-9.
3. Vashishtha A. (2009). Industrial products II. In Microbial Biotechnology (Biotech BT-07). Vardhman Mahaveer Open University, Kota. PP-258-267.
4. Vashishtha A. (2009). Industrial products III. In Microbial Biotechnology (Biotech BT-07). Vardhman Mahaveer Open University, Kota. PP-268-279.

5. Vashishtha A. (2015). Biotechnology in Medicine. In Cell, Molecular Biology and Biotechnology (MZO-02). Vardhman Mahaveer Open University, Kota. PP-272-315. ISBN: 978-81-8496-549-0.

6. Vashishtha A. (2015). Tolerance, Hypersensitivity and Immunity against Infections. In Biochemistry, Physiology and Immunology (MZO-03). Vardhman Mahaveer Open University, Kota. PP-353-414. ISBN: 978-81-8496-550-6.

7. Vashishtha A. (2015). Cell Biology. In Practical Zoology - I (MZO-05). Vardhman Mahaveer Open University, Kota. PP-108-119. ISBN: 978-81-8496-552-0.

8. Vashishtha A. (2015). Immunology. In Practical Zoology - I (MZO-05). Vardhman Mahaveer Open University, Kota. PP-120-129. ISBN: 978-81-8496-552-0.

9. Vashishtha A. (2015). Biochemistry. In Practical Zoology - I (MZO-05). Vardhman Mahaveer Open University, Kota. PP-130-142. ISBN: 978-81-8496-552-0.