<u>Biodata</u>

Name: Dr. Gautam Kumar Meghwanshi			
Date of Birth:	05-01-1978		
Date of joining:	10-06-2011		
Present Position:	Assistant Professor		
Department:	Microbiology		
Pay scale + Grade pay	15600-39100 (7000)		
Mailing Address:	Mailing Address:		
Office:Residence:Deptt. of MicrobiologyGuru Kripa 392, Opp Military Gate, Virat Nagar,Academic Block-IUdasar Road, BikanerMaharaja Ganga Singh UniversityUdasar Road, BikanerN.H. 15, Jaisalmer Road,Bikaner- 334004			
Felephone No.: Mobile No.: 9680640708 Fax No.: E-mail: drgkm_biotech@yahoo.com drgkm@mgsubikaner.ac.in			
Qualifications:			
M.Sc. Microbiology from Deptt. of Microbiology, M.D.S University Ajmer in 2001Ph.D. Microbiology from Deptt. of Microbiology, University of Delhi South Campus in 2008			

Specialization: Microbial Biotechnology (Fermentation, Scale-up, Downstream processing and Biocatalysis)

Research and Teaching Experience(Ph.D. onwards):		
CSIR-Research Associate , Dept. of Microbiology, University of Delhi South Campus, New Delhi-21	1 st May 2008	20 th November 2008
Lecturer, ARIBAS, New V.V. Nagar, Gujarat-388121	5 th Dec 2008	10 th Oct 2009
Executive Biotechnology, Biotechnology Centre,	28 th Oct 2009	8 th June 2011

Unimark Remedies Ltd., Bavla, Ahmedabad, Gujarat.		
INDIA		
Assist. Professor, Deptt. of Microbiology, Maharaja	10 th June, 2011	Continue
Ganga Singh University, NH-15, Jaisalmer Road,		
Bikaner, Rajasthan, INDIA		

Research Projects, Grants and Fellowships:

S. No.	T	tle	Grant Period	Cost (lacs)	In	Funding Agency
1	Bio-Prospecting for Novel Microbial Lipases from Desert Ecosystem of Rajasthan: The Thar desert		3 Years	22.72		SERB, New Delhi
2	 A highly alkaline 1,3- regiospecific lipase from <i>Pseudomonas aeruginosa</i>: process optimization, purification, characterization and its potential industrial applications (CSIR- Fellowships) 		5 Years	5		CSIR
 Screening, production, characterization and application of protease (keratinase) activity from indigenously isolated bacterial strain 		1 Year	0.10		DST-Rajasthan	
Membership Life Membershi		rship of AN	MI, MSI &	Inc	dian Science Congress	
Awar	ds & Recognitions	Sr. Scient	tist Award	(MSI)- 201	9-2	2020
		SERB Yo	oung Scient	tist Award-	- 20)15
		CSIR- JR	F			

NET/SET	UGC-NET (Life Sciences)- 2001
	Judge for Research Project Evaluation - National Children's
	Peer Reviewer for Bioscience, Biotechnology Research Asia
	Best Poster Awards (two)
	CSIR- Research Associate
	CSIR- SRF

Publications:

II. Research Papers Published:	
A. International Journals:	(1) Kumar R, Meghwanshi GK, Marcianò D, Ullah SF, Bulone V,
	Toffolatti SL, Srivastava V. Sequence, structure and
	functionality of pectin methylesterases and their use in
	sustainable carbohydrate bioproducts: A review. Int J Biol
	Macromol. 2023 Jul 31;244:125385. doi:
	10.1016/j.ijbiomac.2023.125385. Epub 2023 Jun 15. PMID:
	37330097.
	(2) Chinnadurai RK, Khan N, Meghwanshi GK, Ponne S, Althobiti
	M, Kumar R. Current research status of anti-cancer peptides:
	Mechanism of action, production, and clinical applications.
	Biomed Pharmacother. 2023 Aug;164:114996. doi:
	10.1016/j.biopha.2023.114996. Epub 2023 Jun 11. PMID:
	37311281.
	(3) Ahmed, A., Dabi, N.K., Verma, S. Gehlot, P., Purohit, P.,
	Kumar, R., Meghwanshi, G.K., 2023. Evaluation of Thar Desert
	bacterial lipases for catalytic efficiencies and biodiesel
	production potentials. <i>Biologia</i> , 78 :1187–1197.
	https://doi.org/10.1007/s11756-023-01340-7
	(4) Ahmed, A., Meghwanshi, G.K. 2022. Production of biodiesel &
	qualitative screening on thin layer chromatography, Bulletin of
	Environment, Pharmacology and Life Sciences, 3(SPL-2022).
	(5) Ahmed, A., Dabi, N.K., Meghwanshi, G.K. 2022. Bacillus
	<i>tequilensis</i> lipase catalyzed synthesis of different esters for food industry Journal of the Judice Detarical Society 102 (4)
	(6) Maghwanshi G K. Varma S. Srivestava V. Kumar P. 2022
	(0) Megnwanshi G.K., Verma S., Srivastava V., Kumar K., 2022.
	prospects Biotechnology Advances 61: 108054 ISSN 0734
	9750 https://doi.org/10.1016/j biotechady 2022.108054
	(7) Dabi NK Ahmed A Meghwanshi $C K$ (2022)
	Optimization, application and some properties of extracellular
	kerating from chicken feather degrading <i>Bacillus tequilensis</i> S-
	interest and the second s

5. Bull. Env. Pharmacol. Life Sci., Special Issue [1]2022 : 1188- 1197.
(8) Charan P.D. Meghwanshi G.K. Vashishtha A (2022)
Environmental Impacts of Covid19 with Special Reference to Plastic
Waste, J. Environ, Science & Engg, 61(2): 708-713, April 2019.
(9) Dabi, N.K., Vashishtha A., Ahmed A., Meghwanshi G.K.
(2021) Screening of native bacterial isolates for keratinase
production and its application in detergent formulation and wash
performance I Phytol Res 34 (2): 159-168 2021 ISSN 0970-
5767.
(10) Verma S, Meghwanshi GK, Kumar R. Current Perspectives
for Microbial Lipases from Extremophiles and Metagenomics.
Biochimie, 182 (2021) 23-36. <u>10.1016/j.biochi.2020.12.027</u>
(11) 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, 67: 586-601. https://doi.org/10.1002/bab.1919
(12) Swati Verma, Rajender Kumar, Pradeep Kumar, Deepak
Sharma, Hukam Gahlot, Pushpender Kumar Sharma & Gautam
Kumar Meghwanshi. (2020). Cloning, Characterization, and
Structural Modeling of an Extremophilic Bacterial Lipase
Isolated from Saline Habitats of the Thar Desert, Appl Biochem
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(13) Khatri V Kumar H Singh VB Meghwanshi GK
(2020) To study the isolation and identification of fungi from
oral cancer after radiotherany Biomed Biotechnol Res I 4.65-
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Meghwanshi G K Kannan R Kumar N S Negi V Jacob J
Bhattacharvya S. Sahoo K.C. Mahadik V.K. Diwan V. Sharma
M Pathak A Khedkar SU Avhad D Savena S Nerkar S
Venu V Kumar S Shandeenan G Singh K R Gashnga R and
Kumar A (2019) Characteristics of a Nationwide Voluntary
Antibiotic Resistance Awareness Campaign in India: Future
Paths and Pointers for Resource Limited Settings/Low and
Middle Income Countries Int I Environ Res Public Health
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(15) Vorma S. Kumar D. & Maghwanshi C. K. (2010)
(15) Verma S., Kumar K, & Wegnwansin G. K. (2017).
and matagenemic database using reconstruction of exception
and inclagenome database using reconstruction of ancestral sequences 3 <i>Biotach</i> 9(5): 265 10 1007/s12205 010 1602 0
(16) Vorma S Maghwanghi C K k Varmag D (2019) Statistical
homogonaity in microhial linggon Microhial Course Day 2001 12
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(2017). Impact of petroleum hydrocarbons on physicochemical
properties and bacterial population in contaminated soils. J.
Phytol. Res. 30 (1): 69-81. ISSN 0970-5767.
(18) Meghwanshi, G. K., S. Kumar, D. S. Solanki, K. Parihar,
K. Sharma, P. Gehlot, S.K. Singh and R. Pathak (2017).
Isolation and enzymatic characterization of Streptomyces isolates
from western Rajasthan. Plant Archives Vol. 17 No. 2, pp. 929- 934. ISSN 0972-5210.
(19) Susheela, Chawlal G., Barupal G. K. and Meghwanshi G.
K. (2017). Antimicrobial screening of doped ho(iii) metal ion
systems with various 'n' & 'o' donor atom ligands against gram
positive Cocci and gram negative Bacilli. International Research
Journal of Natural and Applied Sciences. 4(12): 194-200. ISSN:
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(20) Susheela, Chawla G., Nieghwanshi G. K. and Barupai G. K.
(2017). Sensitivity studies of complexes of heavy falle earth metal ion with sulphonanilides against subacteria. International
Research Journal of Natural and Applied Sciences $4(12)$: 187
103 ISSN: $(2349-4077)$
(21) 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
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Singh S.K. (2016). Probiotics and Prebiotics International
Journal of Microbiology Research, 8(6): 762-768. ISSN
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(23) Nai S. and Meghwanshi G.K. (2015). Production of pickle
from cauliflower petiole studs. J. Phytol. Res. 28 (1 & 2) : 1-6. ISSN 0970-5767.
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plants. J. Phytol. Res. 28 (1 & 2) : 15-23. ISSN 0970-5767.
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and Charan P.D. (2015). Study of heavy metals in soil, water and
some crops of Sri Ganganagar (Rajasman), india. J. Phytol. Res. $28(1 + 2) \cdot 20$ 45 JSSN -0070 5767
$(26) \qquad Meghwanshi C K and Vashishtha A (2014) Microalasa$
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from an indigenously isolated Bacillus subtilis. Lett. Appl.

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	cheese whey and corn steep liquor. Biotech Lett. 30(4): 631-635.
	DOI: <u>10.1007/s10529-007-9592-2</u>
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	succinic acid production and enzymes of reverse tricarboxylic
	acid cycle from <i>Enterococcus flavescens</i> . Enz. Microb. Technol.
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	new Pseudomonas and Bacillus isolates. J Mol. Catal. B; Enz. 40:
	127-131. <u>https://doi.org/10.1016/j.molcatb.2006.02.020</u>
	(31) Agarwal, L., Isar, J., <u>Meghwanshi, G. K.</u> , and Saxena, R. K.
	(2006). A cost effective fermentative production of succinic acid
	from cane molasses and corn steep liquor by Escherichia coli. J.
	Appl. Microbiol. 100: 1348- 1354.
	<u>https://doi.org/10.1111/j.1365-2672.2006.02894.x</u>
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	Meghwanshi, G. K., Wengel, J., Saxena, R. K. and Parmar, V. S.
	(2005). Selective transacylation reactions on 4-aryl- 3, 4-
	dihydropyrimidin-2-ones and nucleosides mediated by novel
	lipases. Pure Appl. Chem. 77(1): 237-243.
B. National Journals:	Meghwanshi, G. K. (2018). Applications of enzymes in industries.
	Everyman's Science. LII(5): 307-313. ISSN: 0531495X
I. Books published:	n
A. Authored: Book Meghwanshi,	G. K. (2017). Biotechnology of Microbial Lipases, LAP Lambert

Academic Publishing, Germany, ISBN 9783659693410

Book Chapters

Dutt K. and Meghwanshi G.K. (2023). Advances in Fungal Enzymes and their Applications. In: Applied Mycology for Agriculture and Foods: Industrial Applications. S.K. Singh, Deepak Kumar, Rohit Sharma, Md. Shamim (Eds). Apple Academic Press (USA). In production, Pub Date- Forthcoming April 2023. ISBN: 9781774913130
Yadav, A., Purohit, P., Vashishtha, A., Charan, P.D. and Meghwanshi, G.K. 2022. Microbial assisted production of alcohols. acetone and glycerol. In:

Yadav, A., Puronit, P., Vasnishtha, A., Charan, P.D. and Megnwanshi, G.K. 2022. Microbial assisted production of alcohols, acetone and glycerol. In: Bioprospecting of Microbial Diversity, Verma, P. and Shah, M. P (eds). Elsevier, pp 47-81.

Vashishtha, A. and **Meghwanshi**, **G.K.** (2018). Hydrocarbon pollution and factors affecting its Bioremediation. In Environmental Toxicology. S. C. Joshi and Priyanka Sharma (ed.) Pointer Publishers, Jaipur (Raj) India. Pp 75-85. ISBN: 9788171328833

- Meghwanshi, G. K. and Vashishtha, A. (2018). Biotechnology of Fungal Lipases. In Fungi and their Role in Sustainable Development: Current Perspectives. Springer Nature Singapore Pte Ltd , Pp 383-411. <u>https://doi.org/10.1007/978-981-13-0393-7_22</u>, Print ISBN: 9789811303920, eText ISBN: 9789811303937
- 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 Pte Ltd , Pp. 449-465. <u>https://doi.org/10.1007/978-981-13-0393-7_25</u>, Print ISBN: 9789811303920, eText ISBN: 9789811303937
- Meghwanshi, G.K. and Vashishtha, A. (2018). Industrial biocatalysis: a green solution to environmental conservation and sustainability. In: Microbial Research An Overview. V. Katiyar and A. Joshi (ed.) IK International Publishing House, New Delhi (India). Pp 153-176. ISBN: 9789385909443
- Vashishtha, A., Meghwanshi ,G.K. and Baid Sweety (2018). Quorum sensing and bacterial pheromones: a role to influence the local microbial environment. In: Microbial Research An Overview, V. Katiyar and ---- (ed.) IK International Publishing House, New Delhi (India). Pp 89-108. ISBN: 9789385909443

	Meghwanshi ,G.K. and Vashishtha, A. (2015). Applications of Enzymes in
	Food Processing. In: Microbes in Action, J. Singh & P. Gehlot (ed.).
	Agrobios (INDIA) pp.281-301. ISBN: 9788177545371
	Meghwanshi ,G.K. and Dhabai, B. (2015). Food Preservation: Methods and
	Practices. In: Microbes in Action, J. Singh & P. Gehlot (ed.). Agrobios
	(INDIA) pp. 303-316. ISBN: 9788177545371
	Vashishtha, A. and Meghwanshi ,G.K. (2015). Biodegradation of polycyclic
	aromatic hydrocarbons with special reference to naphthalene. In: Microbes in
	Action, J. Singh & P. Gehlot (ed.). Agrobios (INDIA) pp. 145-166. ISBN:
	9788177545371
	Vashishtha, A., and Meghwanshi, G.K. (2015). Approaches towards biological
	restoration of hydrocarbon polluted sites: bioremediation and
	phytoremediation. In: Biodiversity - Management and Conservation:
	Sustainable Development and its Applications. J.B. Khan and G. P. Singh
	(ed.) LAP Lambert Academic Publishing, pp. 89-104. ISBN:
	9783659002298.
	Meghwanshi, G. K. and Vashishtha, A. (2012). Microbial enzymes: production
	and applications. In: Recent trends in Microbiology (eds. B.B.S. Kapoor and
	Anil Arora). Madhu Publication, Bikaner. Pp. 83-100. ISBN: 81-86644-23-7.
	Saxena, R. K., Agarwal, L., and Meghwanshi, G. K. (2005). Diversity of fungal
	and yeast lipases: Present and future scenario for the 21st century. In :
	Microbial diversity: Current Perspectives and Potential Applications eds. 1. Satyanarayana and B. N. Johri, J.K. International Pyt. Ltd. New Delhi, pp.
	791-814. ISBN: 9788188237432
С.	

Research Supervision - Ph.D./M.Phil./M.Sc. (Name of student and title):

Name of Student:

Mrs. Swati Verma

Title: Cloning and Characterization of Microbial Lipase from the Bacterial Isolate of Saline habitats of Rajasthan Status: Degree awarded

Mr. Narendra Kumar Dabi Title: Microbial Keratinase: Production and Application in Bioremediation of Feather Waste. Status: To be submitted

Mr. Ajaj Ahmed

Title: Microbial Lipase: production, purification, characterization and applications Status: To be submitted

M.Sc. Dissertation:

26 awarded

D.

Training

Participated in work shop entitled "Genome analysis method for molecular genetic studies and disease diagnosis" March 9-10, 2022, Sponsored by DSt-SERB, organized by NRCC Bikaner during March 9-10, 2022

Other activities:

E-Content Development	12 papers
Invited Talks In Conferences/Seminars/Symposia etc	Recombinant Lipase from <i>Bacillus tequilensis</i> : Application in Synthesis of Biodiesel and Other Esters (24.12.22). INTERNATIONAL WORSHOP AND SYMPOSIUM ON GREEN CHEMISTRY AND TECHNOLOGY (IWSGCT-22), Organized by department of Chemistry, GOVT DUNGAR COLLEGE, BIKANER- 22-24 DEC. 2022.
	Recombinant lipase from <i>Bacillus</i> sp. : its production, extraction, characterization and applications (24.4.22). SERB Sponsored Workshop (07 days) "Recent Advances in Diagnosis and Management of Zoonotic Diseases" 19 - 25 April, 2022
	Enzymes for Pharmaceutical (04.07.21). Online Faculty Development Programme on ""Green Technology & Sustainability Engineering organized by Engineering College, Bikaner.
	Bacterial Lipase Catalyzed Production of Biodiesel from Waste Cooking Oil (19.1.21). 'Gyan Ganga' Initiative for Teaching-Learning Excellence in Chemistry -State level first Training- Workshop under subject specific short term programme, Jointly Organized by Directorate of College Education, Rajasthan & Government Dungar College, Bikaner, Rajasthan from 18-23 Jan. 2021
	Microbial Lipase Catalyzed Production of Biodiesel from Vegetable oil (11.1.21). 'Gyan Ganga' Initiative for Teaching-

Learning Excellence in Botany -State level online training under subject specific short term programme, Jointly Organized by Commissionerate College Education, Rajasthan & Dept of Botany, Government Dungar College, Bikaner, Rajasthan from 11-16 Jan. 2021

Enzymes for Pharmaceutical Applications (9.9.2020). 'Gyan Ganga' Initiative for Teaching-Learning Excellence in Chemistry -State level first Training- Workshop under subject specific short term programme, Jointly Organized by Directorate of College Education, Rajasthan & Government Dungar College, Bikaner, Rajasthan from 1-7 Sept. 2020

Microbial Lipases for Biodiesel Production : From Waste to Wealth (2.9.2020). One week faculty development programme on "Alternate Energy Resources' ' under AICTE-ATAL scheme from 1-5 September 2020 at Engineering College Bikaner 2020

Application of Microbial lipase in biodiesel production from waste cooking oil (3.7.2020) TEQIP-III (Twinning Activity) Sponsored One Week Online Short-Term Training Program on "Environmental Crisis and Sustainable Development" Energy Systems". Organized by Engineering college, BikaneFrom 1-5 July 2020

Application of Bacillus tequilensis Lipase in Production of Biodiesel using waste Cotton Seed oil and Algal oil. TEQIP-III Sponsored Two Week Faculty Development Programme On "Advances in Renewable Energy Systems". Organized by Engineering college, Bikaner during Dec 9-20, 2019

Optimization of P. aeruginosa Lipase Production, its Scaleup in Fermentation and its Applications in Regioselective Acylations. Gautam Kumar Meghwanshi. National Conference on 'Advances in Biotechnological Research in Plants, Animals and Microorganisms during last 10 years. Organized by M.N. College & Research Institute, Bikaner during Dec 14-15, 2019

Enzymatic Regioselective acylation of deoxyribo- and ribonucleosides for the synthesis of antisense oligonucleotides. Gautam Kumar Meghwanshi & R.K. Saxena. UGC Sponsored Workshop on Recent Advances in Chemical Sciences. P.G. Deptt. of Chemistry, Govt. Dungar College, Bikaner Jan 23-25,

	2017.
	Preparation of Research Proposal. Ph.D. Course work- 2014 organized by MGS University, Bikaner. 2016-01-10. Resource Person.
	Shodh Prastav. Ph.D. Course work- 2017 organized by MGS University, Bikaner. 2017-09-23. Resource Person.
Paper Presentation in Seminars/ Conferences / Workshops (organized/attended)	> International
(organizea acconaca)	Characterization of Lipases Isolated from Thermotolerant Bacteria of Thar Desert (2017). Gautam Kumar Meghwanshi . International Conference on Recent Trends in Chemical Sciences (ICRCS-2017), Govt. Engineering College Bikaner (India).
	Microbial Lipase Catalyzed Synthesis of Fatty Acid Alcohol Esters for Biodiesel and other Applications (2014). Gautam Kumar Meghwanshi. 4 th Biennial International Conference on Entrepreneurship, Tourism, Environment and Energy, M.D.S. University, Ajmer (India).
	Synthesis of Various Alcohol Esters of Fatty Acids by <i>Pseudomonas aeruginosa</i> Lipase: A Green Solution to Conventional Industrial Processes (2013). Gautam Kumar Meghwanshi and R. K. Saxena. 54 th Annual Conference of AMI & International symposium on FDMIR-2013, MD University, Rohtak, (India).
	Microbial lipase catalyzed synthesis of diglycerides for hypertriglyceridemia treatment in Type II diabetic patients: a new approach to meet current challenges in pharmaceutical industries. (2013). Gautam Kumar Meghwanshi and R. K. Saxena. 18th Pradanya 2013: International Conference on Healthcare India: Opportunities, Challenges & Innovations October 3-6, 2013, IIHMR, Jaipur (India).
	Process optimization of lipase production from a potent strain of <i>Pseudomonas aeruginosa</i> and its application in bioester synthesis. (2006). Gautam Kumar Meghwanshi , Lata Agarwal and R. K. Saxena IUPAC Sponsored Second International Symposium on Green/Sustainable Chemistry, University of Delhi, Delhi-110007 (India).
	An alkaline thermostable lipase from <i>Pseudomonas</i> sp. (2004). Gautam Kumar Meghwanshi, Anoop Batra, Pritesh Gupta and R. K. Saxena. ICOB-4 & ISCNP-24 IUPAC

International Conference on Biodiversity and Natural Products: Chemistry and Medical Applications. Department of Chemistry & Council of Scientific and Industrial Research, New Delhi (India).

Optimization of tannase and gallic acid production from *Aspergillus versicolor* in fermenter using response surface methodology (RSM). Anoop Batra, Shashi Saxena, **Gautam Kumar Meghwanshi** and R.K. Saxena. (2004). ICOB-4 & ISCNP-24 IUPAC International Conference on Biodiversity and Natural Products. Chemistry and Medical Applications. Department of Chemistry, New Delhi (India).

Selective acylation of deoxyribo-/riobonucleosides with a novel lipase in non-aqueous solvents. C. Mukherjee, G. Sakya, **G.K. Meghwanshi**. Y.S. Sanghvi. V.S Parmar, R.K. Saxena and A.K. Prasad (2004). ICOB-4 & ISCNP-24 IUPAC International Conference on Biodiversity and Natural Products, Organized by Chemistry and Medical Applications. Department of Chemistry, New Delhi (India).

National

Enzymatic Regioselective Modifications of Sugars for Application in Antiviral Therapy. **Gautam Kumar Meghwanshi.** National Seminar on Environmental Management and Technology (NSEMT-2017), Deptt. of Environmental Science, M.G.S. University, Bikaner.

Ethical Issues in Biomedical Research and Applications in India. **Gautam Kumar Meghwanshi.** National Seminar on Eternal Life Values: Education, Media, Governance and Change (2017). Deptt. of English, M.G.S. University, Bikaner.

Value Education in Higher Education System: Is There a Need? (2016). **Gautam Kumar Meghwanshi**. National Seminar on National Education Policy 2016: Issues, Challenges and Suggestions, M.G.S. University, Bikaner.

Application of Microbial Lipase in Leather Processing- A Green Technology (2016). **Gautam Kumar Meghwanshi** & Abhishek Vashishtha. National Seminar on "Agriculture Resource Management for Sustainability and Eco-Restoration". ICAR-Central Institute for Arid Horticulture, Bikaner.

Lipase mediated Degreasing of Animal Hides/Skins- An

Approach Towards Conserving the Environment (2016). Gautam Kumar Meghwanshi & Abhishek Vashishtha. National Seminar on Overpopulation and its Effects on Environment, Gramin Mahila P.G. College, Shivsinghpura, Sikar.

Applications of Bacterial Keratinase in Bioremediation of Keratin Rich Wastes (2015). **Gautam Kumar Meghwanshi** & Abhishek Vashishtha. National Conference on Recent Trends in Engineering & Applied Sciences. Manda Institute of Technology, Bikaner & Manda College, Bikaner.

Application of *Pseudomonas aeruginosa* lipase in Ester Synthesis (2015). **Gautam Kumar Meghwanshi** & Abhishek Vashishtha. National Seminar on Current Trends in Environmental Research. Deptt of Environmental Science, M.G.S. University, Bikaner.

Enzymatic Synthesis of Antioxidants under Mild Reaction Conditions (2014). **Gautam Kumar Meghwanshi**. National Conference on Energy & Environmental Engineering, Manda Institute of Technology, Raiser, Bikaner.

Optimization for Bacterial Protease Production and its Applications in Bioremediation of Keratin Rich Wastes (2014). **Gautam Kumar Meghwanshi** and R. K. Saxena. Recent Trends and Future Prospects of Microbiology and Biotechnology, Shri JJT University, Jhunjhunu.

Pseudomonas aeruginosa lipase mediated synthesis of flavour and fragrance esters: a green process to conserve the biodiversity (2013). **Gautam Kumar Meghwanshi** and Dr. Abhishek Vasihishtha. National Conference on Biodiversity Conservation Embracing Our Past Preserving Our Future, The IIs University, Jaipur.

Process optimization of bacterial keratinase production & its application in bioremediation of keratin rich waste. Sweety Baid, Khushboo Bothra & Gautam Kumar Meghwanshi (2012). UGC Sponsored National Conference on Current Issues and Opportunities in Biotechnology, organized by Department of Biotechnology, Mahila P.G. Mahavidyalaya, Jodhpur.

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