

Curriculum Vitae

Dr. PIYUSH CHANDNA

Male

H.No. 1037, Sector 7 Extension, Urban Estate, Gurgaon- 122001 (Haryana), INDIA
D.O.B: February 07th, 1982; Married; Email: piyushchandna7@gmail.com,
piyushchandna07@gmail.com; Mobile: +91 9990008921

Academic Qualification

- **2010-2015: Doctorate (Ph.D.), Microbiology** from University of Delhi, South Campus, New Delhi, India entitled “**Diversity of Culturable and Non-Culturable bacteria from Compost**” with
Course Work: (1) Microbial Physiology and Metabolism; (2) Plant-Pathogen
- **2003-2005: Master in Science (M.Sc.), Microbiology** from HNB Garhwal University, Srinagar, Uttaranchal now Uttarakhand, India, secured First division. Dissertation entitled “Assessing the effect of carbon sources on bacteriocin production by *Leuconostoc lactis* R1”.
- **2000-2003: Bachelor of Science (B.Sc.)** from Maharishi Dayanand University (M.D.U.) Rohtak, Haryana, India, secured the Second division.
- **1999: Senior School Secondary Level (12th)**, from Central Board of Secondary Education (C.B.S.E.), Delhi, secured Second division.
- **1997: Secondary Level (10th)**, from Central Board of Secondary Education (C.B.S.E.), All India, secured First division.

DIPLOMA

- ✚ **Diploma: 4 Day Hand on workshop on 2D Electrophoresis using DIGE technology (Proteomics)** Organized by GE Healthcare in UDSC, October 19th-22nd, 2010.

Professional Experiences

Working

June 16th, 2020 to till date: Scientist for “**Natdynamics Biosciences Confederation**”
Gurgaon, Haryana

Worked

- ❖ **November 12th, 2018 to June 15th, 2020: “Scientist” for Sarv Bio Labs Pvt. Ltd.**, Certified and recognized **Research and Development (R&D)**, Plot No. 131, Industrial Area, Phase 2, Panchkula, Haryana by **Department of Scientific and Industrial Research (DSIR), Government of India, New Delhi.**
 - ✚ **Authorized Signatory of Sarv Bio Labs Ltd for DSIR Application** & related document (18/03/2019 to 26/03/2020)
- ❖ **February 3rd, 2017 to November 10th, 2018: Director** for Pratibuddhavastu Global Private Limited, Gurgaon. Haryana, India
Incubate: CCS Haryana Agricultural University, Hisar Haryana from 10th/10/ 2017 to November 10th, 2018

- ❖ **March 14th, 2016 to November 21st, 2016: “Research Scientist”** in Centre For Science and Environment, New Delhi, India
- ❖ **April 16th, 2015 to March 10th, 2016: “Research Associate”** in International Centre for Genetic Engineering and Biotechnology (ICGEB), New Delhi, India.
- ❖ **April 01st, 2012 to May 24th, 2013: “UGC Grantee (UGC Non Net Fellowship Awardee)”** in University of Delhi South Campus, New Delhi, India
- ❖ **May 25th, 2009 to March 31st, 2012 : “Junior and Senior Research Fellow”** in University of Delhi South Campus, New Delhi, India
- ❖ **August 10th, 2006 to April 17th, 2009: “Project Fellow”** in NPB, Lucknow & working in Department of Microbiology, University of Delhi, South Campus, New Delhi, India

As a Consultant

- **February 01st, 2020 to April 30st April 2021: Consultant:** For GEMCO Energy Limited, Dinod, Bhiwani, Haryana, India
- **July 10th, 2018 to November 09th, 2018: Consultant”** for Sarv Bio Labs Pvt. Ltd., Kala Amb-173030, Himachal Pradesh, India.

Triumphs

- ❖ **Invite as a Participants in Drafting Committee:** Letter No. F.No.31026/13/2017-Policy dated 28th September 2020 received from the Department of Pharmaceuticals, Ministry of Chemicals and Fertilizers, Govt of India regarding second meeting for drafting of National Master plan for Pharmaceutical Cluster was held on December 02nd, 2020 (Wednesday) at 02:00 P.M. online (Skype). The meeting was coordinated by Technical Cell, NIPER S.A.S. Nagar for drafting the National Master Plan on Pharmaceutical Clusters on December 02, 2020 at 02:00 PM

Achievements

1. **Merit Certificate** in Delhi Association of Mathematics Teachers, securing 60% at **First Level**, in 1996 with a roll no. F-025.
2. **Merit Certificate** in Delhi Association of Mathematics Teachers, securing 82% at **Junior level**, in 1997 with a roll no. J-052.
3. **Merit Certificate** in XIV National Level Science Talent Search Examination-1999 organized by United Council For Education Research and Scientific Advancement in Learning, Trivandrum

Awards

1. **BEST Volunteer Award** in 49th Annual Conference of Association of Microbiologists of India, 2008.
2. **Award of Non-Net fellowship** (UGC) for the year 2012-13 awarded by University of Delhi, Delhi, India
3. **Award (Financial support)** by **Department of Science & Technology (DST), Govt of India, New Delhi** for presenting the Poster in Dijon, **France**, December-2014
4. **Award (Young Scientist: Environmental Microbiology)** by Association of Microbiologists of India (AMI) for the year 2015
5. **Award (Recognized Reviewer)** by **Journal of Biotechnology** on Jan 27th, 2017

Distinctions

- ✓ **Applicant Specialist** in **LAB EXPO 2011** for **Axiva SicheM Biotech** (Booth No. D- 203) at **Pragati Maidan**, New Delhi from 8-10th December 2011.
- ✓ **Resource Person** (for a day) in **National Workshop** on “**Advanced Biological Techniques**” held from 2-8th December 2015 at **Matreyi College, University of Delhi**, New Delhi, India.

Training

- **Fifteen days Training** on Faecal Sludge and Wastewater Laboratory Management, in the year 2016, **Asian Institute of Technology, Bangkok Thailand** under the supervision of Dr. Thammarat Koottatep (Associate Professor)
- **One month Training**, in the year 2003, Department of Microbiology, University of Delhi South Campus, New Delhi, Delhi, India under the supervision of Dr. J.S. Virdi (Reader).

HAND ON (Workshop/Training)

- ✚ **2 Day Hands on training** on **LIQUID HANDLING SYSTEM (LHS) Freedom EVA 150 MCA/8 Channel** Organized by **TECAN**, Swiss in **ICGEB**, New Delhi on June 9th- 10th, 2015.

KEY DELIVERABLES IN FIELD OF RESEARCH

Manuscript Published

1. Rani S, **Chandna P with Equal Contribution**. **Multiomics Analysis Based Biomarkers in Diagnosis of Polycystic Ovary Syndrome (Review) Reproductive Sciences (Springer Nature, USA)**.doi:<https://10.1007/s43032-022-00863-9> **Online Published in Reproductive Sciences (27th Jan 2022)**
2. Pandey AK, Kumar M, Kumari S, Kumari P, Yusuf F, Jakeer S, Naz S, **Chandna P**, Bhatnagar I, Gaur NA. (2019). Evaluation of divergent yeast genera for fermentation associated stresses and identification of a robust sugarcane distillery waste isolate *Saccharomyces cerevisiae* (NGY10) for lignocellulosic ethanol production in SHF and SSF (2019). **Biotechnology for Biofuels**. 12:40. <https://doi.org/10.1186/s13068-019-1379-x>.
3. Dey TB, Kumar A, Banerjee R, **Chandna P**, Kuhad RC. (2016). Improvement of microbial α -amylase stability: strategic approaches. **Process Biochemistry** 51: 1380-1390 (**Review Article**).
4. **Chandna P**, Mayilraj S, Kuhad RC. (2016). *Bacillus pseudoflexus* sp. nov., a moderately halophilic bacterium isolated from compost. **Annal Microbiol** 66:895-905.

5. **Chandna P**, Gupta S, Rajam MV, Kuhad RC (2014). Molecular identification, extracellular enzymes and *in vitro* screening of antagonistic bacteria isolated from compost: Effect of compost on tomato plant development and photosynthetic efficiency. *Annal Microbiol* **64**: 571–580.
6. **Chandna P**, Malik S, Kuhad RC (2013). Assessment of Bacterial Diversity in Agricultural byproduct compost by sequencing of Cultivated Isolates and Amplified rDNA Restriction Analysis. *Applied Microbiol Biotechnol* **97**(15), 6991-7003
7. **Chandna P**, Nain L, Singh S, Kuhad RC (2013). Assessment of bacterial diversity during composting of agricultural byproducts. *BMC Microbiology* **13**:99
8. **Chandna P**, Mayilraj S, Kuhad RC (2013). *Bacillus paraflexus* sp. nov., isolated from compost. *Int J Syst Evol Microbiol* **63**, 4735-4743

Book Chapter

- 1) **Chandna P.**, Sisodia R., Kuhad RC., Gaur NA (2020). Analyzing the Diversity of Microbial Communities Residing in Marine Ecosystem. In.: **Encyclopedia of Marine Biotechnology 1, 637-660.** (Editor) Marine Bioprocess Research Center, Pukyong National University, Busan, Republic of Korea. John Wiley & Sons, Ltd. Publication date: 2020/8/11
- 2) Gupta R, Bhardwaj KN, Choudhary C, **Chandna P**, Jain KK, Kaur A, Kumar S, Shrivastava B, Ninawe S, Singh A, Kuhad RC. (2012). Biofuels: the environment friendly energy carriers. In: **Biotechnology for Environmental Management and Resource Recovery**, 125-148. (Editors) Kuhad, R.C. and Singh A. Springer Verlag, Germany. (ISBN 978-81-322-0875-4 ISBN 978-81-322-0876-1 (eBook) DOI 10.1007/978-81-322-0876-1 Springer New Delhi Heidelberg New York Dordrecht London).
- 3) Kuhad RC, **Chandna P**, Nain L and Singh A (2010). Composting of lignocellulosic waste materials. In: **Bioaugmentation, biostimulation and biocontrol, 107-128.** (Editors) Dr. Ajay Singh, Nagina Parmar and Dr. R. C. Kuhad. Springer Verlag, Germany. (ISSN 1613-3382 ISBN 978-3-642-19768-0 e-ISBN 978-3-642-19769-7 DOI 10.1007/978-3-642-19769-7 Springer Heidelberg Dordrecht London New York Library of Congress Control Number: 2011930787 # Springer-Verlag Berlin Heidelberg 2011).

Manuscript Submitted in International Peer Reviewed Journal

Incomplete submissions (0) | Under processing (1) | Website Online (0) | Rejected / Withdrawn (0)

Manuscript ID	Section / Special Issue	Title	Status	Submission Date
1673641	Microbial Diversity	Elucidating the bacterial diversity from an environmental sample	Pending review	2022-03-24 17:41:59

Microbial Isolates

16S rRNA gene sequence of (Grand Total: **50**) different microbial isolates which was submitted to Gen Bank (NCBI) in slots and were assigned accession numbers.

1. **AM778178-----92;** in total (15)
2. **AM884572----79;** in total (08)
3. **FR848959-----62;** in total (04)
4. **FR865468-----75;** in total (08)
5. **FR848959-----62;** in total (04)
6. **HE664168-----70,** in total (04)
7. **FN999939-----45** in total (07)

Finding the two novel isolates of *Bacillus* sp. submitted as Type strain” Letters of Authentication received from Two National and Two International Depositories

International

1. CCM, Czech Collection of Microorganisms (Czech, Republic);
2. KCTC, Korean Collection for Type Cultures (Korea);

National

3. MTCC, Microbial Type Culture Collection (Chandigarh, India);
4. MCC, Microbial Culture Collection (Pune, India).

METAPROTEIN

- Successfully submitted the **metaproteomics** data in **Proteomics identification (PRIDE) DATABASE (EMBL-EBI)** and received the **Accession number**. Pride is being developed in collaboration with: EBI, UK; University Gent, Belgium; University of Manchester, UK. The complete MASCOT results dataset including MS/MS spectra information are provided on the PRIDE database (at <http://www.ebi.ac.uk/pride/>).
- Accession number of first set: 19688 and
- Accession number of replicate set: 19907

MILESTONE REACHED SO FAR

EDITORIAL BOARD (2015-2017) AS A EDITOR IN INTERNATIONAL JOURNAL OF CONTEMPORARY PATHOLOGY (WWW.IJCP.CO)

REVIEWERS

- ❖ **Journal of Bioremediation and Biodegradation**, OMICS Publishing Group, Westlake, Los Angeles, USA (2015-16).
- ❖ **African Journal of Microbiological Research:** Manuscript Evaluation Certificate (24/ July/ 2013) with **IF (2015-16)**.
- ❖ **Advancements in Genetic Engineering**, OMICS Publishing Group, Westlake, Los Angeles, USA (2015-16).
- ❖ **Advances in Crop Sciences and Technology**, OMICS Publishing Group, Westlake, Los Angeles, USA (2015-16).

- ❖ **Journal of Forest Research** OMICS Publishing Group, Westlake, Los Angeles, USA(2015-16)..
- ❖ **Journal of Biotechnology** Elsevier Publishing Group, 2016
- ❖ **Certificate of Appreciation** for Serving as a Reviewer for Universitas Scientiarum, 2019.

ORGANIZING COMMITTEE:

INTERNATIONAL CONFERENCE

- One day symposium “**LIGNOBIOCON**” 2012 on December 12th 2012, University of Delhi-110021, India

NATIONAL CONFERENCE

- One day workshop “**Intellectual Property Rights**” on March 3rd, 2013 by Institute of Life Long Learning (ILL), University of Delhi South Campus: 110021, India.

PARTICIPATION

WORKSHOP ATTENDED (National)

- ✚ One day ASM Virtual National Workshop on **Scientific Writing and Publishing** Organized by Sri Venkatswara College, University of Delhi South Campus, New Delhi: 21 on February 6th, 2013.
- ✚ One Day National Workshop on **Intellectual Property Rights and Patents**. January 19th, 2015 at SP Jain Auditorium at South Campus, University of Delhi, Delhi-21.
- ✚ One day National Workshop on **Genome Informatics: Whole Genome Re-Sequencing Analysis**, Organized by University of Delhi South Campus Microarray Centre on July 17th 2015.

Webinar

- Letter for **Participation** in Agilent Webinar on **June 18th, 2015** on Sequencing_Solutions_Finding_Rare_Variants_Faster **organized by Agilent**.

Exhibition (District Level)

- Securing the First position in **District Level Science Exhibition** from **November 03- 05th, 1997** held on S.D. Sr. Sec School, Gurgaon, Haryana, India.

CONFERENCE ATTENDED INTERNATIONAL/NATIONAL

International POSTER PRESENTATION (INTERNATIONAL): FRANCE

- Certificate of Poster Presentation entitled “**An attempt to study bacterial diversity of compost following traditional and proteomics approach in First Global Soil Biodiversity Conference, 2-5th December 2014, Dijon, France** (financial support provided by Department of Science & Technology (DST), Govt of India).

INTERNATIONAL & NATIONAL

- Certificate of Participation in **49th Annual Conference of Association of Microbiologists of India** “Microbial Biotechnology: Diversity, Genomics, and Metagenomics” held in New Delhi in collaboration with the “**American Society of Microbiology**” from 18th to 20th November 2008.

- Certificate of Participation in **Next-Generation Sequencing Experimental Design and Quantitative Genomics** held on UDSC, New Delhi-21 on 25-26th February 2011 organized by **ISILON** (<http://www.isilon.com>).
- Certificate of Participation in **13th MANLIBNET Convention on Repositioning Libraries For User Empowerment Policy, Planning & Technology**, October 13-15th, 2011 at University of Delhi South Campus, New Delhi-21.
- Certificate of Participation in **Two (2) day User Awareness Programme on Access to E-Resources under NLIST/UGC-INFONET Digital Library Consortium** organized by University of Delhi South Campus Information and Library Network held at University of Delhi South Campus on 27-28 September 2012.
- Certificate of Participation in **From Brick to Click: Transforming Libraries into S. Sciences**, 7-8th February 2014 at University of Delhi South Campus, New Delhi-21 organized by UN Information Centre for India and Bhutan, UDSC, Society for Library Professionals and SLA-Asia.
- Certificate of Participation in **4th National Science Day Symposium**, 27-28th February 2014 at University of Delhi South Campus, New Delhi-21 organized by University of Delhi South Campus, New Delhi-21.
- Certificate of Participation in **YOUNG Scientist Conference** as a part of **INDIA INTERNATIONAL SCIENCE FESTIVAL**, 4-8th December 2015 at IIT Delhi, New Delhi.
- Certificate of Participation in **56th ANNUAL CONFERENCE of Association of Microbiologists of India (AMI-2015) & International Symposium on Emerging Discoveries in Microbiology**, 7-10th December 2015 at JNU New Delhi Organized by School of Life Sciences, Jawaharlal Nehru University, New Delhi.
- Certificate of Participation in **International Conference on Innovation in Sustainable Water and Wastewater Treatment Systems (ISWATS)**, 21-23 April 2016 at Yashda, Baner Road, Pune (M.S.), India
- Certificate of Participation **“Online Course on Faecal Sludge Management”** jointly delivered by Centre for Science and Environment, and **UNESCO-IHE** from April 04th, 2016 to July 22nd, 2016.

COLLOQUIUM

- Certificate of Participation in Colloquium) organized by **Maharishi Dayanand University**, Rohtak (Haryana) in 2010.

MEMBERSHIP

Membership of International Bodies:-

- ❖ **American Society of Microbiology (ASM)** with vide receipt no. 78547 on 19/11/2015 to 31/12/2016, ASM ID number is: 57053498

Membership of National Bodies:-

- ❖ **Association of Microbiology of India (AMI)** with vide receipt no. 712 on 20/08/2014

Certification / Declaration

I do hereby declare that all the above information furnished by me is true and correct to the best of my knowledge.

Piyush Chandna
Signature