

BIOSKETCH

1. Name and Full Correspondence Address: **PODA SUDHAKAR**
Professor & Head of the Department
Department of Biotechnology
Acharya Nagarjuna University
Nagarjuna Nagar, Guntur-522510
Andhra Pradesh, India.
2. Email and Phone Number sudhakarpodha@gmail.com
+91 9000122929 / 9177914424
3. Date of Birth 01-10-1975
4. Gender Male
5. Academic Qualifications

Name of the Degree	Name of the University	Year of Passing
Ph. D. Microbiology	Sri Krishnadevaraya University	Sept, 2008
M. Sc. Microbiology	University of Madras	Aug, 2000
B. Sc Microbiology, Biochemistry Aquaculture, Chemistry	Acharya Nagarjuna University	Apr, 1997

6. Administrative Experience

S. No.	Administrative position / responsibility	Department / Office of appointment	Period / Duration
1	Coordinator	Research and Development Cell, Acharya Nagarjuna University	22 July 2024 till date
2	Director	Online Test Centre, Acharya Nagarjuna University	October 2024 till date
3	Chief Data and Technology Officer (CDTO)	Acharya Nagarjuna University	October 2024 till date
4	Head, Department of Biotechnology	Department of Biotechnology, Acharya Nagarjuna University	April 2012- April 2014; April 2016- April 2018; April 2020-2022; April 2024 till date
5	Board of Studies Chairman	Department of Biotechnology, Acharya Nagarjuna University	March 2022- April 2024

S. No.	Administrative position / responsibility	Department / Office of appointment	Period / Duration
6	ACTA: Assistant Chief Teacher Associate (Examinations Coding Section)	Acharya Nagarjuna University	May 2029 till date
7	Member, Technical Committee for Procurement of Scientific Instruments	Acharya Nagarjuna University	2025 till date
8	Associate Editor of the Journal	Current Trends in Biotechnology and Pharmacy	2007 till date
9	Member of the SAMARTH Committee from Universities and Commissionerate of College Education, Government of Andhra Pradesh, for implementation of SAMARTH modules in Higher Education Institutions. Lr. No. 04/APCCE/SAMARTH/AC-7/2025, dated 24-01-2025.	Commissionerate of College Education / Higher Education, Government of Andhra Pradesh	2025

7. State-Level Recognition

Received the **State Best Teacher Award - 2025** from Andhra Pradesh State Higher Education, Government of Andhra Pradesh, presented by Hon'ble Chief Minister Sri Nara Chandrababu Naidu Garu and Hon'ble Education Minister Sri Nara Lokesh Garu.

8. Designations Held after Appointment at Acharya Nagarjuna University

S. No.	Designation / Stage	Department	Period
1	Assistant Professor - Stage I	Biotechnology	30 November 2009 to 29 November 2013
2	Assistant Professor - Stage II	Biotechnology	30 November 2013 to 29 November 2018
3	Assistant Professor - Stage III	Biotechnology	30 November 2018 to 29 November 2021
4	Associate Professor - Level 13A	Biotechnology	30 November 2021 to 20 November 2024
5	Professor - Level 14	Biotechnology	30 November 2024 till date (Professor Interview Completed)

9. Projects (Completed/Ongoing):

Project Title	Agency	Cost
Development of Novel Bio-Sensing Platforms for Onsite Detection of Major Food Born Mycotoxins and its Control by scFVs (Single Chain Fragment Variables)	DBT, Ministry of Science and Technology. Govt of India	27,25,000/-
Development of the lateral flow assay and sandwich ELISA for rapid onsite field deployable detection of the Vip3A Bt-Toxin in Bt-cotton and Bt-corn seeds	Centre for Innovation and Intellectual Property Rights, ANU	2,00,000

Development of Novel Aptamer based Bio-Sensing platforms for Onsite Detection of Food Born Fungal toxins (Ochratoxin A & Fumonisin B1)	Rashtriya Uchchatar Shiksha Abhiyan (RUSA 2.0)	10,00,000
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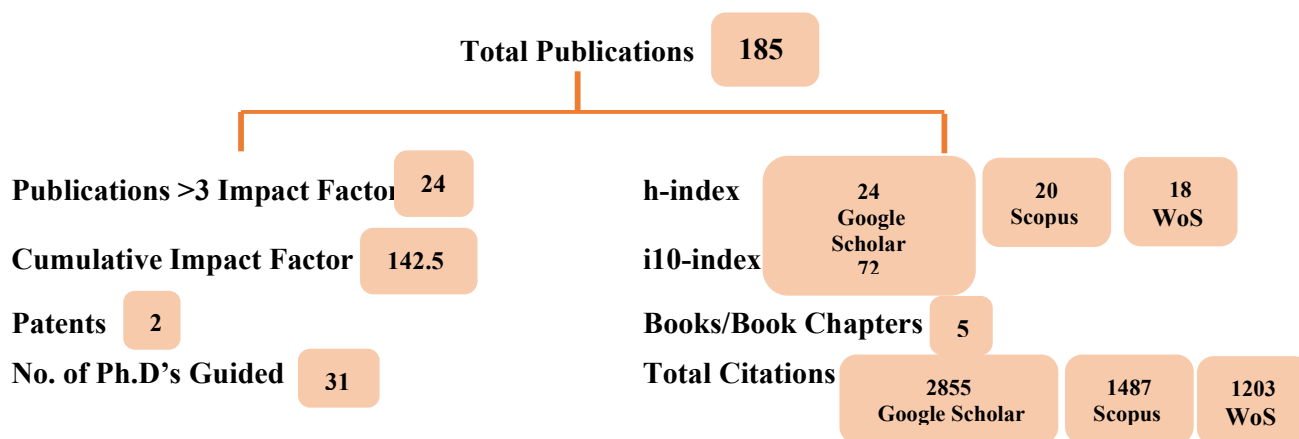
10. Research Publications Citations

Name	Google Scholar	Scopus	Web of Science
Dr. Sudhakar P	Citations 2855 h-index 24 i10-index 72	Citations 1487 H-index 20	Citations 1203 H-index 18

11. Research and Development Contributions

Ph.D. doctoral degrees successfully guided and awarded	31
Students submitted thesis	03
Ph.D. students registered	06
Publications published	185
Patents published	02
Book chapters	05
Workshops / conferences / seminars	07 organized; 100+ attended / participated
Refresher courses / FDPs participated	10

RESEARCH IMPACT



Q1 Publications	21
Q2 Publications	22
Q3 Publications	44
Q4 Publications	04

10. Patents Published

Patent Application No	Invention Title	Granted Date	Inventors names
201641042107A	Aptamers Specific for Aflatoxin-B1 (AFB1) and Method for their <i>in vitro</i> selection	15.06.2018	Veera Venkata Aswani Kumar Yelakurthi, Renuka Ramalingam Manoharan, Vankataramana Mudili, Sudhakar poda , Usha Kiranmai Mangamuri, Vijayalakshmi Muvva, Raja Surya Sambasiva Rao Krothapalli.
202541076815	Bioprocess-Oriented Evolution of Microbial Hosts for Improved Productivity and Stability	12.08.2025	Dr. Suryadevara Vidhyadhara, Dr. P. Sudhakar , Dr. V. Venkata Rao, Dr. A. Chakravarthy, Dr. Valluru Ravi.

11. FDPs

- One week Faculty Development Program on “Research Opportunities in Advanced Functional Materials – 2024” by Department of Chemistry, SRM Institute of Science and Technology, Chennai (30th Sep to 5th Oct, 2024).
- Two Week Faculty Development Program on “Mathematical Modeling and Simulation for Scientists & Engineers” by Department of Chemical Engineering, JNTUA CE, Ananthapuram. 24-02-2020 to 07-03-2020.
- Participated One Week in the UGC STRIDE Workshop on “BASIC AND ADVANCED MOLECULAR TECHNIQUES” at Mizoram University, Aizwal. 1st June 2021 to 5th June 2021.
- Five, day Workshop on “Deep-Dive into Research and Its Methodologies” by Research and Development (R&D) Cell in Association with Internal Quality Assurance Cell (IQAC), Mangalayatan University (MUJ), Jabalpur (21st to 25th August, 2025).
- Five Day online Faculty Development Program cum Webinar Series on “Latest Trends and Future Prospects of Biotechnology” by Dept of Biotechnology, National Institute of Technology Andhra Pradesh. 06-07-2020 to 10-07-2020.
- Five, day workshop on “Ethics in Scientific Publications” by Research & Development (R&D) Cell, MUJ, Jabalpur. 08th to 12th July, 2024.

12. Awards/Memberships/Honors

- **State Best Teacher Award-2025**, by Andhra Pradesh State Higher Education, Govt of A.P.
- **Bharat Jeev Bigyan Ratna Award 2025** by IMRF Institute of Higher Education & Research, India. Regd. With Govt. of India NITI Aayog NGO Darpan, Estd: U/S35 of 2001, Govt. of A.P, India.
- **Vidyaspurthi Visishta Puraskaram-2023** by Modern Foundation, Regd No. 1069 of 1993.
- **The Green Warrior Award-2023** on behalf of CEEED India. Regd. No. 143/2021.

- **Best Research Paper Award** under Natural Sciences category at **47th Foundation Day** Celebrations, Acharya Nagarjuna University for best national research publication, 11-09-2023.
- **Best Research Paper Award** under Natural Sciences category at **46th Foundation Day** Celebrations, Acharya Nagarjuna University for best national research publication, 11-09-2023.
- **Leader of Excellence award-2021** by Modern Foundation, Regd. No. 1069 of 1993.
- **Best Research Paper Award** under Natural Sciences category at **42nd Foundation Day** Celebrations, Acharya Nagarjuna University for best national research publication, 11-09-2018.
- **Best Patent Award** under Natural Sciences category at **42nd Foundation Day** Celebration, Acharya Nagarjuna University, 11-09-2018.
- Life Member in **Association of Microbiologists India**.
- Member of **Association of Biotechnology and Pharmacy**.
- Associate Fellow, **AP Academy of Sciences**.
- Young Scientist award in National Seminar by ISCAP, at SVU, Tirupati.
- Subject Expert to UPSC Examinations, Govt of India (2024)
- Subject Expert to APPSC Examinations, Govt of Andhra Pradesh (2025).
- Subject Expert as evaluator for APPSC Group-I & Group-II Mains; A.P. Forest Sub-service (Mains-2025) *Ltr No.189/FBO-ABO/CDH/2025, dtd: 20/02/2026*.
- Appointed as Visiting Associate Professor Research Management Unit, University of Cyberjaya, Malaysia.
- Appointed as Guest Ass. Prof in Faculty of Pharmaceutical Sciences, UCSI University, Malaysia.
- Technical Expert for Online Review of Biotech Proposals by BIRAC's BIG Schemes.
- Associate Editor for CTBP Journal.
- Editorial member of the IRIS Journal, Malaysia.
- Selected as Post Doctorial Fellow at CCMB Hyderabad.
- Served as Advisory Consultant for a period of 5 years, 2019 to 2024 for Immuno Farm Science, Madhapur, Hyderabad.
- Served as Scientific consultant/Advisory for a period of 5 years (2018 to 2023) to Helini Biomolecules, Chennai.
- Appointed as Technical Advisory to the Lorven Biologics Private Limited, Hyderabad for a period of 2024-2027. Dt: 23/02/2024.
- Appointed as Technical Advisory to the VALAN LIFE SCIENCE for a period of 3 years 2024-2027. Dt: 14/01/2024.
- Associated with Faculty of Health Sciences, Durban University of Technology, Durban, South Africa.

13. Administrative Assignments/Chairman/Director/Member of the Committee- activities:

- Nominated as DBT Representative in the IBSC of *Virocon Therapeutics PVT LTD* (VIROCON-1532). No. BT/IBKP/1031/2026., dated: 30.03.2026.
- Appointed as a member of the SAMARTH committee from the Universities and Commissionerate of College Education Gov of A.P., to implement SAMARTH modules in Higher Education Institutions. Lr. No: 04/APCCE/SAMARTH/AC-7/2025 dated: 24-01-2025.
- Appointed as External Member Committee for APRCET 2023-2024 Ph.D. interviews for Biotechnology at VSU Campus, Nellore. No. VSU/DoA/APRCET/Ph.D inter.committ./2023-2024. Dt: 20/06/2024
- Appointed as a committee member for Yogandhra 2025-Committee. No. ANU/Constitution of Committees/Yogandhra 2025.
- Appointed as Co-convenor for APPGCET-2025 admissions, organized by Acharya Nagarjuna University on behalf of APSCHE.

- Appointed as Outside Expert Committee Member for Board of Studies in Pharmacy of Chebrolu Hanumaiah Institute of Pharmaceutical Sciences (Autonomous), Guntur, A. P. Dated: 1/9/2024.
- Appointed as Member of Board of Studies, Department of Biotechnology for MARIS STELLA COLLEGE (Autonomous), Vijayawada, A.P. Ltr No: MSC/BOS/Mng.Nominee/25. Dtd: 17-03-2025.
- Appointed as member for Committee for Criterion-V: Student Support and Progression of ANU-IQAC to Reconstitute AQAR&SSR Committee. Ltr dt., 14/05/2022.
- Appointed as member of the Taskforce Committee for National Institutional Ranking Framework. No. ANU/Dedicated Taskforce/NIRF/2024. Dt. 03/10/2024.
- Appointed as member of Organizing Committee for the Academic Exhibition 2023. Dt: 23/02/2023.
- Appointed as member, UG BoS Biotechnology of Cluster University, Kurnool. Dt: 27/09/2023.
- Appointed as a member for National Bamboo Mission, Govt of A.P. Rc. No: 4571/2019/NBM, dt: 08-07-2020.
- Appointed as Presiding Officer to Guntur West-094 for conducting the general election, HOP/APLA, 2024.
- Appointed as Associate Regional Coordinator for conducting APSET 2024, examination by A.P, India. Dt: 24-04-2024.
- Acted as External Examiner for the Scholars of AcSIR Institute, Kamla Nehru Nagar, Ghaziabad, UP. Dt: 15/10/2024.
- Appointed as Special observer for APLAWCET & APPGLCET-2024, by APSCHE. No. ANU/APLAWCET&PGLCET 2024/Appointment/Special Observers. Dt: 05/06/2024.
- Acted as Member of the Editorial Board Committee for the preparation of 48th Annual Report of the year 2023-2024. No. ANU/IQAC/2024. Dt: 05/08/2024.
- Appointed as Officer on Special Duty for National Institute of Open School (NIOS) Regional Centre, April-May 2024 (theory) Examinations, Hyderabad. F.381-4/2012/NIOS/Rc-Hyd. Dtd: 30/03/2024.
- Acted as Fact-Finding committee member of extension of affiliation for the existing UG and PG Courses, for the year of 2023-24. ANU. Dt: 27/02/2023.
- Appointed as an Expert member of Planning & Evaluation Committee of P.B. Siddhartha College of Arts & Science, Vijayawada. No.PBSC/PEC/2022/3. Dt: 02/11/2022.
- Appointed as **Chairman BOS**, Department of Biotechnology for a period of 2022-2024.
- Acted as a ACTA for UG Examinations, ANU. No. ANU/UG Exams/Appt/CTA/ACTA.
- Acting as a Director, online Examination Centre, ANU. No. ANU/Estt TS/Nomination of Director/Online Examination Centre/2024.
- Appointed as Internal Examiner to Conduct semester practical Examinations, ANU. No. ANU/S2/PG & Professional/2023.
- Appointed as a Question Paper Setter various University semesters.
- Appointed as a Squad for the examinations of UG/PG/PG Diploma Courses, Centre for Distance Education.
- Appointed as Regional Coordinator for UG/PG/PG Diploma Courses Examinations.
- Appointed as Observer for APICET-2023 Examination: 19/05/2023.
- Acting as a Chief Data & Technology Officer by APSCHE. No. ANU/Nomination/CDTO/2024.
- Appointed in Inspection commission as a Convenor/member for the academic affiliation under ANU.
- Appointed as Member, Committee for the Purpose of Control and Supervision of Experiments on Animals (CPCSEA) under Institutional Animal Ethical Committee (IAEC) at Chebrolu Hanumaiah Institute of Pharmaceuticals Sciences Guntur.
- Appointed as Outside Expert Member for IBSC of *Roshini Crop Sciences PVT LTD* (ROSHINI-1243), Jubilee Hills. No. BT/IBKP/44/2023. Dtd: 30.08.2023.

- Appointed as Outside Expert Member for Intuitional Biosafety Committee (IBSC) by Dept of Biotechnology at Vignan Foundation for Science, Technology and Research by Ministry of Environment and Forest, Govt of India.
- Delivered guest lectures in various colleges like Chebrolu Hanumaiah Institute of Pharmaceuticals, SVKP & Dr. KS Raju Arts & Science College, Dr. CSN Degree & PG College.

Ph. D. Thesis Title:

Studies on Cellulase Producing Bacteria from soil: Screening, Isolation and Molecular Characterization

Description of Ph. D. Work:

The work was undertaken, to screen and isolate cellulase producing bacteria from soil by employing the selective screening protocols, and identification of the isolates have been executed by amplifying and sequencing the 16S rRNA gene and the obtained sequence was compared with the sequences of the 16S rRNA gene from NCBI and the isolates were identified as *Bacillus subtilis* and *Pseudomonas putida*. The growth pattern and the cellulase production of the bacterial isolates at varied physico-chemical and environmental conditions in relation to its efficacy of cellulose production using different substrates and organic and inorganic nitrogen sources were analyzed. Random Amplified Polymorphic DNA (RAPD) of the *Bacillus subtilis* and *Pseudomonas putida* with other *Bacillus* and *Pseudomonas* species was carried out. Homology modeling of the 1,4- β -D-endoglucanase of *Bacillus subtilis* and *Pseudomonas putida* and β -D- cellobiohydrolase of *Bacillus subtilis* was under taken using different software and the modeled enzymes were deposited into PROTEIN MODEL DATA BASE (PMDB) and all the enzymes were assigned the PMDB ID.

Publications

1. Anusuya Nagaraj, **Sudhakar Poda**, Pranab Kumar Mahata, Vinay Viswanath Konduri, Vidyadhara Suryadevara, Ramu Anne, Valluru Ravi, Naveen Kumar Kalagatur. Hybrid Bio-Inorganic pH-Responsive selenium nanoparticles from Cinnamomum tamala for targeted aflatoxin B1 suppression. *Hybrid Advances*. Volume 13, Issue 100671, pp 1-18, 12 May 2026. ISSN: 2773-207X. DOI: <https://doi.org/10.1016/j.hybadv.2026.100671>.
2. Anasuya Nagaraj, **Sudhakar Poda**, Vinay Viswanath Konduri, Patibandla Jahnavi, Ashok Kumar Balaraman, Venkatesha Dwarakanath, Naveen Kumar Kalagatur. Eco-engineered selenium nanoparticles via *Mentha arvensis* phytochemistry for dual mitigation of methylene blue dye pollution and aquatic pathogen *Aeromonas hydrophila*: Mechanistic and biocompatibility insights. *Results in Chemistry (ELSEVIER)*. Volume 26; Issue 103331, Pages 1-17; 5 July 2026. ISSN: 2211-7156; **IF: 5.8; Q2**. DOI: <https://doi.org/10.1016/j.rechem.2026.103331>.
3. Anasuya Nagaraj, **Sudhakar Poda**, Vinay Viswanath Konduri, Lokanadhan Gunti and Naveen Kumar Kalagatur. Interfacial Redox Transformation and Phytochemical Capping Drive the Formation and Protective Bioefficacy of *Phyllanthus acidus* – Derived Selenium Nanoparticles against *Aeromonas hydrophila* Infection in Zebrafish. *Royal Society of Chemistry – Journal of Materials Chemistry B*. 13 March 2026, Volume 14, Issue 15, pg 4646–4666. ISSN 2050-7581. **IF: 6.2, Q1**. DOI: <https://doi.org/10.1039/D5TB02675J>
4. Ch. Kethani Devi and **P. Sudhakar**. Synthesis and Characterization of Cinnamaldehyde 4-Hydroxy Methyl Phenyl hydrazone derived from an isolated hydrazine of *Agaricus biosporus*: Application in the spectrophotometric determination of cobalt (II) in biological and environmental

samples. *RASAYAN J. Chem.* Volume 19, Issue No. 1, pp 556-563, January-March 2026. ISSN: 0974-1496. **SJR 0.183, Q3**. DOI: <http://doi.org/10.31788/RJC.2026.1919502>.

5. Vinay Viswanath Konduri, Anasuya Nagaraj, Naveen Kumar Kalagatur, Seethalakshmi Subramaniam, Abeer Hashem, Khaloud Mohammed Alarjani, Graciela Dolores Avila-Quezada, Elsayed Fathi Abd Allah, **Sudhakar Poda**. Biocompatible goethite crystal phase iron oxide nanoparticles from *Pithecellobium dulce* exhibit dye degradation potential and protective effect against aquatic pathogen *Aeromonas hydrophila* infection in a zebrafish model. *Chemical Physics Impact*. 28 February 2026, Issue 101034, pg 1-64; ISSN: 2667-0224; **IF: 5.3; Q1** DOI: <https://doi.org/10.1016/j.chphi.2026.101034>.
6. Anasuya Nagaraj, Lokanadhan Gunti, Vinay Viswanath Konduri, Pranab Kumar Mahata, Avulamandha Balakrishna, Venkatesha Dwarakanath, Naveen Kumar Kalagatur, **Sudhakar Poda**. Phytochemical-Driven Selenium Nanoparticles from *Tribulus terrestris*: A Multi-Mechanistic Antifungal and Anti-Aflatoxigenic Strategy with Biocompatibility. *Chemical Physics Impact*. 26 February 2026, Volume 12, Issue 101033, pg 1-17; ISSN: 2667-0224; **IF: 5.3; Q1**. DOI: <https://doi.org/10.1016/j.chphi.2026.101033>.
7. Swarna Sailaja Gundapu, Usha Kiranmayi Mangamuri, **Sudhakar Poda**. Green Synthesis of Chitosan-Coated Selenium Nanoparticles from *Amaranthus viridis* for Enhanced Antioxidant Activity: A Comparative DPPH and ABTS Study. *Advanced International Journal of Research (AIJFR)*. March-April 2026, Volume 7, Issue 2, pg 1-9. ISSN: 3048-7641.
8. Swarna Sailaja Gundapu, Usha Kiranmayi Mangamuri, **Sudhakar Poda**. Eco-engineered chitosan-functionalized selenium nanoparticles: A green approach for effective inhibition of *Fusarium graminearum*. *International Journal of Current Science (IJCS PUB)*. Volume 16, Issue 2; pg 542 – 547; April 2026. ISSN: 2250-1770.
9. V. Rohini, Deepika Dasyam, M. Padma, **Sudhakar Poda** (2026). Evaluation of Seedling Trait Responses to EMS-Induced Mutagenesis in Greengram (*Vignaradiata* (L.) Wilczek). *International Journal of Environment, Agriculture and Biotechnology*. Vol 11, Issues-1, pp 66-71, ISSN: 2456-1878. DOI: 10.22161/ijeab. **NAAS Rating: 4.74**.
10. Mahammad Ishaq Beludari, Gopala Krishna Devisetty, Vijaya Saradhi Settaluri, **P. Sudhakar**, Ch. Kethani Devi and Hari Kumar Chedella (2025). Design, synthesis and Pharmacological Evaluation of Benzoyl Hydrazone derivative as potential Multitarget antidiabetic agent: molecular docking, biological evaluation and ADME profiling. *Asian Journal of chemistry*. Vol 37; No. 10 (Sep 2025), 1-8. **SJR 0.14; Q4**. ISSN: 0970-7077. DOI: <https://doi.org/10.14233/ajchem.2025.34409>.
11. Aravind R Nesaragi, Jyoti Nagalik, Sharanappa Chapi, Sharanakumar TM, Venuprasad KD, Naveen Kumar Kalagatur, **Sudhakar Poda**, Sanjeev R Inamdar, Shivarudrappa HP, Rafa Almeer (2025). Protan Triggered colorimetric and fluorometric responsive coumarin coupled imidazole as Co²⁺ sensor, DFT and zebrafish bioimaging studies. *Scientific Reports (nature research)*. 15:38644; 1-12; Nov 2025; ISSN: 2045-2322. **IF: 3.9; Q1**. DOI: [10.1038/s41598-025-22551-9](https://doi.org/10.1038/s41598-025-22551-9)
12. Nagaraj, A., Ghosh, O. S. N., Ghneim, H. K., AlSheikh, Y. A., Mohammed, K., Poda, S., & Kalagatur, N. K. (Jun 2025). Fe₂O₃-type iron oxide nanoparticles from *Aerva lanata* leaf extract exhibit antibiofilm, discriminatory toxicity in cancer cells, and theranostic against oxidative stress in zebrafish. *Chemical Physics Impact*, 100849. 2025; 1-26; ISSN: 2667-0224; **IF: 5.3; Q1**. DOI: <https://doi.org/10.1016/j.chphi.2025.100849>
13. Mohini, Y., Kunduru, K. R., Madiga, H., Mallampalli, K. M., Poornachandra, Y., Chandrasekhar, C., & Podha, S. (30 Jan 2025). Synthesis of novel ricinoleic acid-based 1, 2, 3-triazoles and their anticancer activity: Ricinoleic acid based triazoles as anticancer agents. *Indian Journal of*

14. Monica Kannan, Anjaneyulu Bandi, Madhavi Kanchan, Noor Shaik, Babajan Banaganapalli, Reetika Chaurasia, and **Sudhakar Poda** (2025). Unraveling the Therapeutic Potential of a Novel Proquazone Analog (PA-6) to Harness the Anti-Leukemia Mechanisms in K562 Cell Lines by Proteomics and Systems Biology Approaches. 1-26; 12 August 2025; 2310-287X. DOI: 10.20944/preprints202508.0777.v1.
15. Harun-Ur-Rashid, M., Foyez, T., Krishna, S. B. N., Poda, S., & Imran, A. B. (19 March 2025). Recent advances of silver nanoparticle-based polymer nanocomposites for biomedical applications. *RSC advances*. Volume 15, Issue 11, pp 8480-8505, 19 March 2025. ISSN: 2046-2069. IF 6.1, Q1. DOI: 10.1039/D4RA08220F.
16. Kalagatur, N. K., Nagaraj, A., Poda, S., & Salla, H. R. (2024). In vitro toxicological investigation of Fusarium graminearum toxins in Rattus norvegicus myocardial H9c2 cells. *Indian Journal of Biochemistry and Biophysics (IJBB)*, 61(12), 838-845. ISSN: 0301-1208. IF 1.2, Q4. DOI: <https://doi.org/10.56042/ijbb.v61i12.8229>.
17. Gadde, S., Upadhyayula, M. K., Krishna, B. V., & Poda, S. (2024). Trace elements as potential biomarkers for oral squamous cell carcinoma. *Indian Journal of Biochemistry and Biophysics (IJBB)*, 61(11), 731-739. ISSN: 0301-1208. IF 1.2, Q4. DOI: <https://doi.org/10.56042/ijbb.v61i11.12386>.
18. Vinay Viswanath Konduri, Naveen Kumar Kalagatur, Lokanadhan Gunti, Usha Kiranmayi Mangamuri, Venkateswara Rao Kalagadda, **Sudhakar Poda** and Suresh Babu Naidu Krishna. Green synthesis of silver nanoparticles from Hibiscus tiliaceus L. Leaves and their applications in dye degradation, antioxidant, antimicrobial, and anticancer activities. *South African Journal of Botany*. Vol 168 (May 2024). pages 476-487. ISSN: 0254-6299. IF 3.1; Q2. Doi: <https://doi.org/10.1016/j.sajb.2024.03.035>.
19. Vamsikrishna Ulavalapudi, Usha Kiranmayi Mangamuri, **Sudhakar Poda**. Phytochemical Assessment and Biological Features of Fruit Pericarp Extract of Garcinia mangostana L.: Antioxidant and Anticancer (Human Neuroblastoma IMR-32 Cells). *International Journal of Research Culture Society*. 7(11), 137-146. ISSN: 2456-6683. [DOIs:10.2017/IJRCS/202311025](https://doi.org/10.2017/IJRCS/202311025).
20. Talluri Bhaskar Rao, Naveen Kumar Kalagatur, Gowthami Gali, Vamsi Krishna Boggula, Maruthi Kumar Upadhyayula, Usha Kiranmayi Mangamuri, **Poda S.** "Genomics and transgenic approaches for sheath blight resistance development in rice." *Indian Journal of Biochemistry & Biophysics*. Volume 60, December 2023, 886-895. ISSN / eISSN: 0301-1208 / 0975-0959; IF 1.2, Q4. DOI: [10.56042/ijbb.v60i12.7110](https://doi.org/10.56042/ijbb.v60i12.7110).
21. Praveen Kumar R, Sathish Kumar P, MSRSC Sekhar, A Krishna Satya, **P Sudhakar** and LV Subba Rao (2024). Allele mining of *Badh1* gene in aromatic rice germplasm. *International Journal of Advanced Biochemistry Research*. 8 (8); 2024; 104-107. ISSN: 2617-4693; DOI: <https://doi.org/10.33545/26174693.2024.v8.i8b.1707>.
22. Bandi Balaobulapathi, **Sudhakar Podha**, Dr. Nagarajan, Srikanth Adabala, Abhinay Gontu. "Density Gradient Centrifugation of Chikungunya Virus / Cesium Chloride (CsCl) Density Gradient Virus Purification by Ultracentrifugation." *International Journal of Innovative Science and Research Technology*. Vol 8, Issue12, Dec 2023: 24-31.
23. Maheswari, K. U., Rajasekhar, M., Swamy, D. V., **Sudhakar, P.**, & Suneetha, D. S. (2023). Effect of growth regulators on shoot proliferation and root development in micropropagation of pomegranate (*Punica granatum* L.). 12(3), 36-41. Online ISSN: 2277-7695, Print ISSN: 2349-8242. DOI:<https://doi.org/10.22271/tpi.2023.v12.i3a.19487>.

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Book Chapter

1. Ushakiranmayi Managamuri, Muvva Vijayalakshmi, Sudhakar Poda, V. S. Rama Krishna Ganduri, and R. Satish Babu, Bioactive Metabolites from *Streptomyces nanhaiensis* VSM-1: Polyphasic Taxonomy, Optimization, and Evaluation of Antimicrobial Metabolites by GC-MS Analysis. S. M. Khasim et al. (eds.), *Medicinal Plants: Biodiversity, Sustainable Utilization and Conservation*, . Springer Nature Singapore Pte Ltd. 2020. https://doi.org/10.1007/978-981-15-1636-8_38.
2. Ammulu, M. A., Nelluri, K. D. D., Vemuri, P. K., Mallampati, S. C., & Poda, S. (2025). Bio-nanomaterials: a promising approach to producing polymeric composites. In *Sustainable Fillers/Plasticizers for Polymer Composites* (pp. 105-128). Elsevier Science Ltd. <https://doi.org/10.1016/B978-0-443-15630-4.00005-1>.
3. M. Ushakiranmayi, M. Vijayalakshmi, and P. Sudhakar. DNA Barcode: The Genetic Blueprint for Identity and Diversity of *Phyllanthus amarus* Schum. et. Thonn. S. M. Khasim et al. (eds.), *Medicinal Plants: Biodiversity, Sustainable Utilization and Conservation*, . Springer Nature Singapore Pte Ltd. 2020. https://doi.org/10.1007/978-981-15-1636-8_38.
4. Usha Kiranmayi, Sudhakar Poda, Chitta Padmavethi and Muvva Vijayalakshmi. Contribution of marine actinobacteria to human health/Mangamuri. Abiotic Stress and Biotechnology. [edited by T. Pullaiah](#). ISBN 10: 8189233874 / ISBN 13: 9788189233877. Published by Regency Publications, 2013.

5. Vamsi Krishna Boggula, UVR Maruthi Kumar, **Sudhakar Poda**, Suresh Babu. A Novel Approach for the treatment of diabetes mellitus: A review of Ocimum sp. *Studies in Natural Products Chemistry* (Bioactive Natural Products). Volume 89, pg 305-334, 2026. ISSN 1572-5995, ISBN: 9780443491443, **Elsevier Science Publishers, Netherlands**. DOI: <https://doi.org/10.1016/B978-0-443-49144-3.00008-3>.

Work in Bioinformatics:

1. Carried out the homology modeling of the Cellulase producing enzymes of *Bacillus subtilis* and *Pseudomonas putida* and the enzymes were submitted to **Protein Modal Database** and enzymes were accepted and given with **PMDB ID**:
 - a. PMDB ID: PM0075386 - β -Glucosidase of *Pseudomonas putida*
 - b. PMDB ID: PM0075384 - 1,4 - β endoglucanase of *Pseudomonas putida*
 - c. PMDB ID: PM0075324 - 1,4 - β endoglucanase of *Bacillus subtilis*
 - d. PMDB ID: PM0075385 - β -glucosidase of *Bacillus subtilis*
2. Submitted the Amplified tRNA L intron sequence that is used as the barcode for the identification of the *Phyllanthus amrus* to National Centre for Bitechology Information (NCBI) **Acession ID: GenBank: EU861193.1**

Seminar/Conferences/Workshops organized

1. P. Sudhakar, Organizing Secretary. NATIONAL SEMINAR AND WORKSHOP ON GENOMICS & PROTEOMICS: AN INFORMATICS APPROCH (NSGPI-2014). March 24-25,2014 Sponsered by UGC & ANU Organized by Dept of Biotechnology, ANU.
2. Organized 1st International Conference on Recent Advances in Chemical, Pharmaceutical & Biological Sciences (RACPABS-2020) held 10 30 30 at Department of Chemistry, Acharya Nagarjuna University on 5th to 7th March-2020 (**Organizing Committee**).
3. A Workshop on Operating systems, software and database/networking technologies in Bioinformatics held at Bioinformatics Facility Centre (DBT), Acharya Nagarjuna University on 27th & 28th January 2020. (**Convenor of the Workshop**).
4. National Workshop on Applications of RT-PCR in Health and Aqua Diagnosis (NWARHAD-2023) held at Department of Biotechnology, Acharya Nagarjuna University on 24th & 25th February, 2023. (**Director of the Workshop**).
5. National Workshop on Applications of Flow Cytometry in Human Health held at Department of Biotechnology, Acharya Nagarjuna University on 6th & 7th March 2024. (**Treasurer of the Workshop**).
6. National Workshop on Empowerment of Bioinformatics-Sequences to Solution Applications (EBSSA-2025) held at Department of Biotechnology, Acharya Nagarjuna University on 28th & 29th March 2025. (**Treasurer of the Workshop**).
7. National Seminar on The Alchemical Legacy of Acharya Nagarjuna: Exploring Traditional and Contemporary Perspectives (ALAN – 2026) held organized by Department of Chemistry, Acharya Nagarjuna University on 7th & 8th of January, 2026. (**Co-Convenor of the Seminar**).

Seminar and Conferences Presented/Participated:

1. Participated in the National Seminar on The Alchemical Legacy of Acharya Nagarjuna: Exploring Traditional and Contemporary Perspectives (ALAN – 2026) held organized by Department of Chemistry, Acharya Nagarjuna University on 7th & 8th of January, 2026.
2. Participated in the Global Conference on Integrating Technology with Healthcare, Pharmaceuticals, Biotechnology, Agriculture, and Biomedical Sciences for sustainable Development, on 16th – 18th December, 2025, organized by Chalapathi Institute of Pharmaceutical Sciences, Guntur in association with ABAP as part of 19th Annual Convention.
3. Participated in the National Workshop on QUALITY CONTROL IN FOOD INDUSTRY held at Department of Food Science, Nutrition & Dietetics, ANU, on 24th to 25th March, 2025.
4. Participated in the National Workshop on EMPWERMMENT OF BIOINFORMATICS-SEQUENCES TO SOLUTION APPLICATIONS held at Dept of Biotechnology, ANU, on 28th & 29th March 2025.
5. Participated in National Workshop on FOOD ANALYSIS, held at Dept of Food Science, Nutrition & Dietetics, ANU, on 22nd & 23rd Jan, 2024.
6. UGC-Sponsored Two Day National Seminar on “Reservations of Women in Legislature-Dimensions of Political Empowerment”, during 13th & 14th, February 2024 organized by Centre for Women’s Studies, Acharya Nagarjuna University, Guntur.
7. A Programme of National Council for Science & Technology Communication (NCSTC) (Department of Science & Technology (DST), Gov of India conducted by APCOST State level event of NCSC-2023 under the theme of *Understanding Eco-System for Health & Well-Being held at KLEF, Vaddeswaram, Guntur.*
8. AICTE Sponsored Two-Week Faculty Development Program on “Mathematical Modeling and Simulation for Scientists & Engineers” Organized by Department of Chemical Engineering, JNTUA CE, Ananthapuramu during 24-02-2020 to 07-03-2020.
9. Two day Symposium on “Biomedical Innovations and Small Business Opportunities” held on January 22-23, 2020 at SVIMS, Turupathi.
10. International Conference on Recent Advances in Biotechnology and Environmental Science (ICRABES), organized by Vellore Institute of Technology, Vellore in collaboration with Association of Biotechnology and Pharmacy, from 16th to 18th December, 2022.
11. International Conference on Frontiers in Nutrition, Medical Genomics, and Drug Discovery (Inbix’22) organized by the Department of Biotechnology and Bioinformatics, VFSTR (Deemed to be University), Vadlamudi, Guntur, India, in association with Bioclures Organization, India.
12. Two day National Seminar on ‘Recent Advances in Biological Sciences’ (RABS-2022) (under Autonomous Funds) in collaboration with Krishna University, Machilipatnam on 28th & 29th October, 2022 organized by Departments of Botany & Zoology, K. B. N. College (Autonomous), Vijayawada.
13. Two Day National Conference on “Circular Bioeconomy and Bioengineering Approaches for A Clean Environment and Health” (NCBBCH -2022) organized by Department of Biotechnology, VFSTR (Deemed to be University), Vadlamudi, Guntur Dist., Andhra Pradesh, India, on 09-10 September, 2022.
14. Two days National Science Academies Lecute Workshop held in Hindu College, Guntur on 6th & 7th April, 2022.

15. UGC Sponsored Two Day National Seminar on Covid-19 out break on Food and Nutritional Security on 3rd to 4th, April, 2023. Organized by Department of Food Science, Nutrition & Dietetics Acharya Nagarjuna University, Nagarjunanagar -522510, Guntur, A.P.
16. UGC-Sponsored Two Day National Seminar on Violence: An Impediment to Women Empowerment from 13.02.2023 to 14.02.2023, held at Acharya Nagarjuna University, Guntur.
17. International Conference on Environmental Technology & Management –ICETM held at Acharya Nagarjuna University, Guntur, A.P., from 14-15 September, 2023.
18. National Seminar on Frontiers in Plant and Microbial Research (FPMR 2023), held at Dept. of Botany and Microbiology, Acharya Nagarjuna University on 23rd-24th February, 2023.
19. UGC Sponsored National Seminar on “Eco Friendly Technologies for Sustainable Waste Management”, Organized by the Department of Environmental Sciences, Acharya Nagarjuna University, Guntur, During 07-08th February, 2020.
20. Competition on the theme “BUILD BACK HAPPIER – Global Recovery from COVID Pandemic” organised by Student Counselling Centre, Department of Education On 20-03-2022, Acharya Nagarjuna University.
21. UGC Sponsored Two Day National Seminar on National Education Policy 2020: Perspectives and Challenges, Organized By the Dept. of Education, Acharya Nagarjuna University, Guntur, held on 22nd & 23rd March, 2022.
22. UGC Sponsored Two Day National Workshop on “Green Healthcare Managemnet: Emerging Issues and Challenges” Organized by Department of MBA (Hospital Administration), Acharya Nagarjuna University, Guntur, A.P., during 25-26 March, 2022.
23. International Conference on Environmental Technology & Management – ICETM held at Acharya Nagarjuna University, Guntur, A.P., from 14-15 September, 2023.
24. International Symposium on Biodiversity of Medicinal Plants and Orchids: Emerging Trends and Challenges (BMPO 2018) Organized by Department of Botany and Microbiology, Acharya Nagarjuna Univeristy, Nagarjunanagar, Guntur-522510.
25. Five Day National Workshop on Modeling, Simulation and Optimization of Bioprocesses. Organized by Dept of Biotechnology, National Institute of Technology, Wrangal form 10th -24th December 2018.
26. Delivered a lecture in Novodaya leadership Institute, Deshabhakta Bhavan, Guntur-522002. Organized by the Autonomous Institute, Ministry of HRD, Govt of India.
27. Participated in National Workshop on Regulatory mechanisms, Transgenic Technology and Applications in Plants (RMTTAP- 2018). Organized by Dept of Botany and Microbiology, Acharya Nagarjuna University, Nagarjunanagar, Guntur form 2rd to 3rd August 2018.
28. Participated in three day International Conference on Biodiversity, Environmental and Human Health: Innovations and Emerging Trends. Organized by School of Life Sciences, Mizoram Central University, Azawl, Mizoram, India form 12th to 14th November 2018.
29. Participated in a two day workshop in Innovation by Design organized by Andhra Pradesh Innovation Society on 3rd February 2017.
30. Participated in National Seminar On Plant-Microbe Interaction, Environmental Conservation- Challenges and Strategies on 17th and 18th March, 2017. Organized by Department of Botany and Microbiology, Acharya Nagarjuna University.

31. Participated in 6th Indo-African Conference on Advanced and Challenges in Pharmaceutical Sciences on August 31, 2017, organised by University college of Pharmacy, Acharya Nagarjuna University, Guntur.
32. Participated in a two day National seminar on Recent Trends in Chemistry and Physics of Materials from 15th and 16th September, 2017, Organized by Department of Chemistry, S.S.R and C.V.R Govt Degree College, Vijayawada.
33. Participated in one week workshop on Hands On Training Programme On Advanced Techniques in Biological Sciences from 18th to 24th September.2017, organised by Department OF Botany, Andhra Loyola College. Vijayawada.
34. Participated in International workshop on Research Methodology and R-Programming from 20-27, March 2018 Organised by International Students Cell, Acharya Nagarjuna University. Guntur
35. Participated in National Workshop On Manuscript Preparation For Publication in the Indexed Journal of Aquatic Sciences from 4-6 January, 2016, Organized by Department of Zoology and Aquaculture, Acharya Nagarjuna University. Guntur.
36. Participated in UGC Sponsored two day National workshop on Evolving Molecular biological Techniques from 28th -29th January,2016 by Department of Biochemistry, Acharya Nagarjuna University.Guntur.
37. Participated in National Seminar On Characterization Techniques Of Materials, from 28-29 March 2016. Organized by Department of Nanotechnology, Acharya Nagarjuna University.Guntur.
38. Participated in 2nd Andhra Pradesh Science Congress, Amravathi held at P.B. Siddhartha College Of Arts and Sciences Vijayawada during 7-9 November 2016.
39. Participated in a two day workshop on Bioinformatics A Practical Interface held at Bioinformatics facility center during 17th-18TH Novemember 2016. Organized by Bioinformatics Facility Centre (DBT) Acharya Nagarjuna University. Guntur.
40. Participated in sixth Indian Youth Science Congress from January 19-21, 2015 held at Acharya Nagarjuna University, Guntur, Andhra Pradesh.
41. Participated in National seminar on Nutritional Challenges for Psychosomatic Stressed Women, on 4th and 5th of February, 2015. Organised by Department of Food and Nutritional Sciences, Acharya Nagarjuna University. Guntur.
42. Participated in Two day workshop on Stress Management held from 6th to 7th of February. 2015 in Viganan University, Vadlamudi, Guntur.
43. Participated as delegate in the Aqua Aquaria India 2015 organized by The Marine Products Export Development Authority from 20th to 22th February 2015 at Andhra Loyola College, Vijayawada. Andhra Pradesh.
44. Participated as Delegate in International conference on Recent Advances in Biosciences and Applications of Engineering in product of Biopharmaceuticals (RABAEB) and 9th Annual Convention of association of Biotechnology and Pharmacy, from 14-16 December, 2015 in K L University. Vaddeswaram, Guntur.
45. Participated in National conference on Recent Trends in Biotechnology -2014(RTBT-2014) held at Yogi Vemana University, Kadapa.
46. National seminar and workshop on genomics & proteomics: an informatics approach (NSGPI-2014). March 24-25, 2014 Sponsored by UGC & ANU Organized by Dept of Biotechnology, ANU.

47. National seminar on renewable energies, ecosystems and sustainable environmental management FEB 20TH -21ST, 2014 conducted by Dept of Environmental Sciences, ANU.
48. National seminar on “conceptual advances & impact of plant derived drugs on human diseases” (NSCAPDHD- 2014). March 5-6, 2014 conducted by KRISHNA UNIVERSITY, Dr. MRAR PG Canter, Nuzvid.
49. National seminar on “innovations in science and technology for emerging knowledge society” A.P science congress-2013. November 14-16, 2013 conducted University of Hyderabad, Andhra Pradesh Akademi of Sciences.
50. A.P Science Congress-2012, 14-16th 2012. Andhra Pradesh Academy of Sciences and Acharya Nagarjuna University, Guntur, Andhra Pradesh. India.
51. International conference on Environmental impact on human health and therapeutic challenge . 20-22nd Dec 2012. Dept of virology, S.V. University, Tirupathi, Andhra Pradesh. India.
52. National conference on biodiversity and its role in modern world. 12-13th Oct 2012. Dept of Botany, S.P.D.M Arts, S.B.B Science College, Shirpur, Maharashtra.
53. National seminar cum workshop on Bioinformatics basics and languages. 27-29th March 2012. DBT (INDIA) and Department of Biotechnology, Acharya Nagarjuna University. Guntur, Andhra Pradesh. India.
54. International symposium on Innovations in free radical research and experimental therapeutics 7-9th Dec 2011. Karunya university, Tamilnadu, India.
55. National Seminar on Environment and Sustainable Development, 20-29th Oct 2011. Department of Environmental Sciences, Acharya Nagarjuna University. Guntur, Andhra Pradesh. India.
56. Young Scientists Convention-2011. 27-28th Oct 2011. A.P.A.S and Acharya Nagarjuna University. Guntur, Andhra Pradesh. India.
57. National seminar on emerging trends in biology, 24-26th Sep 2011. Department of Biotechnology and Zoology, Acharya Nagarjuna University, Guntur, Andhra Pradesh. India.
58. National seminar on biomedical applications of Nanotechnology, 6th Mar 2010. Department of Biotechnology, Acharya Nagarjuna University. Guntur, Andhra Pradesh. India.
59. National workshop on SAS and its Applications in Biotechnology and pharmacy, 21-23rd Jan 2010. Department of Biotechnology, Acharya Nagarjuna University. Guntur, Andhra Pradesh. India.
60. National Seminar on Emerging trends in Biology. 18-20th Oct 2008. Centre for Biotechnology and Dept of Zoology and Aquaculture. Acharya Nagarjuna University, Andhra Pradesh. India.
61. National seminar on Pharmacy and Biotechnology- Prospects and Perspectives, 6-7th Dec 2007. Chebrolu Hanumaiah Institute of Pharmaceutical Sciences, Guntur.
62. National symposium on Applied Biotechnology, 25-26th Feb 2005. Bapatla Engineering College, Bapatla. Guntur Dst, Andhra Pradesh, India.
63. Workshop on Molecular biology & Immunology, 19-21st Aug 2005. Department of Biotechnology and HELINI Biomolecules, Acharya Nagarjuna University. Andhra Pradesh. India.
64. National Workshop Advanced Molecular Biological Techniques, 6-18th Dec 2004, Dept of Genetics, Osmania University, Hyderabad, Andhra Pradesh, India.

65. National symposium on regenerative medicine and tissue Engineering, 28-29th April 2004. Dept of Biotechnology, Acharya Nagarjuna University, Andhra Pradesh, India. Department of Biotechnology and Department of chemistry and biochemistry, Acharya Nagarjuna University, Andhra Pradesh, India.
66. National seminar on Modern biology, 28-30th Aug 2003. Dept of environmental sciences and Biotechnology, Acharya Nagarjuna University, Andhra Pradesh, India.
67. International Symposium on Biodiversity of Medicinal Plants and Orchids: Emerging Trends and Challenges (BMPO 2018) Organized by Department of Botany and Microbiology, Acharya Nagarjuna Univeristy, Nagarjunanagar, Guntur-522510.
68. Five Day National Workshop on Modeling, Simulation and Optimization of Bioprocesses. Organized by Dept of Biotechnology, National Institute of Technology, Wrangal from 10th -24th December 2018.
69. Delivered a lecture in Novodaya leadership Institute, Deshabhakta Bhavan, Guntur-522002. Organized by the Autonomous Institute, Ministry of HRD, Govt of India.
70. Participated in National Workshop on Regulatory mechanisms, Transgenic Technology and Applications in Plants (RMTTAP- 2018). Organized by Dept of Botany and Microbiology, Acharya Nagarjuna University, Nagarjunanagar, Guntur from 2nd to 3rd August 2018.
71. Participated in three day International Conference on Biodiversity, Environmental and Human Health: Innovations and Emerging Trends. Organized by School of Life Sciences, Mizoram Central University, Azawl, Mizoram, India from 12th to 14th November 2018.
72. Participated in a two day workshop in Innovation by Design organized by Andhra Pradesh Innovation Society on 3rd February 2017.
73. Participated in National Seminar On Plant-Microbe Interaction, Environmental Conservation-Challenges and Strategies on 17th and 18th March, 2017. Organized by Department of Botany and Microbiology, Acharya Nagarjuna University.
74. Participated in 6th Indo-African Conference on Advanced and Challenges in Pharmaceutical Sciences on August 31, 2017, organised by University college of Pharmacy, Acharya Nagarjuna University, Guntur.
75. Participated in a two day National seminar on Recent Trends in Chemistry and Physics of Materials from 15th and 16th September, 2017, Organized by Department of Chemistry, S.S.R and C.V.R Govt Degree College, Vijayawada.
76. Participated in one week workshop on Hands On Training Programme On Advanced Techniques in Biological Sciences from 18th to 24th September.2017, organised by Department OF Botany, Andhra Loyola College. Vijayawada.
77. Participated in International workshop on Research Methodology and R-Programming from 20-27, March 2018 Organised by International Students Cell, Acharya Nagarjuna University. Guntur
78. Participated in National Workshop On Manuscript Preparation For Publication in the Indexed Journal of Aquatic Sciences from 4-6 January, 2016, Organized by Department of Zoology and Aquaculture, Acharya Nagarjuna University. Guntur.
79. Participated in UGC Sponsored two day National workshop on Evolving Molecular biological Techniques from 28th -29th January,2016 by Department of Biochemistry, Acharya Nagarjuna University.Guntur.

80. Participated in National Seminar On Characterization Techniques Of Materials, from 28-29 March 2016. Organized by Department of Nanotechnology, Acharya Nagarjuna University, Guntur.
81. Participated in 2nd Andhra Pradesh Science Congress, Amravathi held at P.B. Siddhartha College Of Arts and Sciences Vijayawada during 7-9 November 2016.
82. Participated in a two day workshop on Bioinformatics A Practical Interface held at Bioinformatics facility center during 17th-18TH November 2016. Organized by Bioinformatics Facility Centre (DBT) Acharya Nagarjuna University. Guntur.
83. Participated in sixth Indian Youth Science Congress from January 19-21, 2015 held at Acharya Nagarjuna University, Guntur, Andhra Pradesh.
84. Participated in National seminar on Nutritional Challenges for Psychosomatic Stressed Women, on 4th and 5th of February, 2015. Organised by Department of Food and Nutritional Sciences, Acharya Nagarjuna University. Guntur.
85. Participated in Two day workshop on Stress Management held from 6th to 7th of February. 2015 in Viganan University, Vadlamudi, Guntur.
86. Participated as delegate in the Aqua Aquaria India 2015 organized by The Marine Products Export Development Authority from 20th to 22th February 2015 at Andhra Loyola College, Vijayawada. Andhra Pradesh.
87. Participated as Delegate in International conference on Recent Advances in Biosciences and Applications of Engineering in product of Biopharmaceuticals (RABAEB) and 9th Annual Convention of association of Biotechnology and Pharmacy, from 14-16 December, 2015 in K L University. Vaddeswaram, Guntur.
88. Participated in National conference on Recent Trends in Biotechnology -2014(RTBT-2014) held at Yogi Vemana University, Kadapa.
89. National seminar and workshop on genomics & proteomics: an informatics approach (NSGPI-2014). March 24-25, 2014 Sponsored by UGC & ANU Organized by Dept of Biotechnology, ANU.
90. National seminar on renewable energies, ecosystems and sustainable environmental management FEB 20TH -21ST, 2014 conducted by Dept of Environmental Sciences, ANU.
91. National seminar on “conceptual advances & impact of plant derived drugs on human diseases” (NSCAPDHD- 2014). March 5-6, 2014 conducted by KRISHNA UNIVERSITY, Dr. MRAR PG Canter, Nuzvid.
92. National seminar on “innovations in science and technology for emerging knowledge society” A.P science congress-2013. November 14-16, 2013 conducted University of Hyderabad, Andhra Pradesh Akademi of Sciences.
93. A.P Science Congress-2012, 14-16th 2012. Andhra Pradesh Academy of Sciences and Acharya Nagarjuna University, Guntur, Andhra Pradesh. India.
94. International conference on Environmental impact on human health and therapeutic challenge . 20-22nd Dec 2012. Dept of virology, S.V. University, Tirupathi, Andhra Pradesh. India.
95. National conference on biodiversity and its role in modern world. 12-13th Oct 2012. Dept of Botany, S.P.D.M Arts, S.B.B Science College, Shirpur, Maharashtra.

96. National seminar cum workshop on Bioinformatics basics and languages. 27-29th March 2012. DBT (INDIA) and Department of Biotechnology, Acharya Nagarjuna University. Guntur, Andhra Pradesh. India.
97. International symposium on Innovations in free radical research and experimental therapeutics 7-9th Dec 2011. Karunya university, Tamilnadu, India.
98. National Seminar on Environment and Sustainable Development, 20-29th Oct 2011. Department of Environmental Sciences, Acharya Nagarjuna University. Guntur, Andhra Pradesh. India.
99. Young Scientists Convention-2011. 27-28th Oct 2011. A.P.A.S and Acharya Nagarjuna University. Guntur, Andhra Pradesh. India.
100. National seminar on emerging trends in biology, 24-26th Sep 2011. Department of Biotechnology and Zoology, Acharya Nagarjuna University, Guntur, Andhra Pradesh. India.
101. National seminar on biomedical applications of Nanotechnology, 6th Mar 2010. Department of Biotechnology, Acharya Nagarjuna University. Guntur, Andhra Pradesh. India.
102. National workshop on SAS and its Applications in Biotechnology and pharmacy, 21-23rd Jan 2010. Department of Biotechnology, Acharya Nagarjuna University. Guntur, Andhra Pradesh. India.
103. National Seminar on Emerging trends in Biology. 18-20th Oct 2008. Centre for Biotechnology and Dept of Zoology and Aquaculture. Acharya Nagarjuna University, Andhra Pradesh. India.
104. National seminar on Pharmacy and Biotechnology- Prospects and Perspectives, 6-7th Dec 2007. Chebrolu Hanumaiah Institute of Pharmaceutical Sciences, Guntur.
105. National symposium on Applied Biotechnology, 25-26th Feb 2005. Bapatla Engineering College, Bapatla. Guntur Dst, Andhra Pradesh, India.
106. Workshop on Molecular biology & Immunology, 19-21st Aug 2005. Department of Biotechnology and HELINI Biomolecules, Acharya Nagarjuna University. Andhra Pradesh. India.
107. National Workshop Advanced Molecular Biological Techniques, 6-18th Dec 2004, Dept of Genetics, Osmania University, Hyderabad, Andhra Pradesh, India.
108. National symposium on regenerative medicine and tissue Engineering, 28-29th April 2004. Dept of Biotechnology, Acharya Nagarjuna University, Andhra Pradesh, India. Department of Biotechnology and Department of chemistry and biochemistry, Acharya Nagarjuna University, Andhra Pradesh, India.
109. National seminar on Modern biology, 28-30th Aug 2003. Dept of environmental sciences and Biotechnology, Acharya Nagarjuna University, Andhra Pradesh, India.

Experience:

- Worked as a Research Associate and faculty and in Department of Biotechnology, Acharya Nagarjuna University, Nagarjuna Nagar Guntur till November 2009. At present working as a permanent faculty member (Assistant Professor).

Research Experience:

Actively involved in research, and guiding the students in the research projects works under taken in Centre for Biotechnology.

- Whole Genome Sequencing of the bacteria for identification of the antimicrobial gene clusters

- Transcriptome analysis of the vital organs of the different sheep in India
- Designing of biosensor, Lateral Flow Assay and ELISA Kits for detection of the food born Mycotoxins, Bt Toxins and Malarial antigens.
- Developed a PCR based diagnostic kit for identifying genetically modified plants.
- Developed teaching kits for demonstration various molecular biology techniques includes site directed mutagenesis, nested PCR, Multiplex PCR, Non-radio labeling of DNA and Southern hybridization, etc.,

Present work engaged:

- On-site detection of the food born mycotoxin by designing the apto-biosensor novel platforms
- Designing of the diagnostic protocols for the detection of the Bt toxins in Bt cotton seeds
- Detection of the novel mutation in the gene coding for Pit-1 transcription factor by amplification and sequencing of the Pit-1 Exons - A case study that detects the mutation responsible for repression the genes coding for the growth hormone and thyroid hormones
- Identification of the cellulase producing fungal isolates by amplifying and sequencing the amplified 23S r RNA gene.
- Homology Modeling of the Cellulase enzymes of *Trichoderma viride* and *Aspergillus niger*.
- Studies on Cellulolytic activity of Soil microflora *Trichoderma viride* and *Aspergillus niger*.
- Non Radiolabeling and detection of DNA fragments on Southern and Northern Blots

Teaching Experience

Teaching Post-graduate students (M.Sc. Biotechnology and M.Tech Biotechnology) at Department of Biotechnology., Acharya Nagarjuna University, Nagarjunanagar, Guntur. Andhra Pradesh. India from 2003 till November 2009. Now working as an Assistant Professor. The subjects that are being taught to the students are Molecular Biology, Genetic Engineering, Protein Engineering and Immunology.

Research Techniques Known

Molecular Biology Techniques: PCR, Gradient PCR, Primer melting temperature calculation, Primer designing for standard PCR, Multiplex PCR using online free Bioinformatics tools, Inclusion of restriction site in primer, Primer for cloning, PCR based finger printing techniques using VNTR/STR/ALU Insert. DNA and RNA purification from various sources, Bacterial Transformation, Western and Southern Blotting techniques, Cloning strategies, DNA, RNA, Isolation of DNA and RNA, Restriction Digestion, primer designing, Cloning strategies, All the electrophoresis techniques, Heterologous protein expression and analysis on SDS-PAGE,

Protein engineering: Purification proteins from various samples, labelling proteins with alkaline phosphatase, Horseradish peroxidase, Molecular weight determination of proteins and 2D Gel analysis and single dimension gel analysis for protein expression studies. Chromogenic substrate usage and standardization (TMB/H₂O₂ and BCIP/NBT)

Bioinformatics

Familiar with various bioinformatics tools like Primer 3,

Databases: Nucleotide Databases: NCBI, EMBL, DDBJ,

Protein databases: Swissprot, Prosite and Pfam,

Structural Database: protein model databases (PMDB), PDB

SPDBV, Molsoft ICM, Homology modelling of the Proteins (Offline and Online Modeller). Off line Modeller, Megaversion (to construct the phylogenetic tree), ClustalW.

Biochemistry: Chromatography (Paper, GC, HPLC, Affinity and Ion Exchange), Electrophoresis (Horizontal and vertical gel Electrophoresis), and Spectroscopy (UV-Vis. Spec, Atomic Absorption Spec.)

Microbiology and Immunology: ELISA, Microbial Culturing, Immunodiffusion, Immuno-electrophoresis, Microbial Screening, Lyophilization, Sonication. Flow Cytometry. Chemiluminescence,

Computer Skills

- Operating Systems : WinNT/2000/XP/Vista
- Software : MS Office, Adobe.

Familiar with all the advanced software necessary for the research

References

1. Prof. Pemmasani Narasimha Rao

Ex Vice-Chairman APSCHE (2015 to 2018 and 2018 to 2019)

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