**BIO-DATA**

Name: **Dr. A. Uma**

# Designation: Associate Professor

# Department/Institute/University: Centre for Biotechnology

# Institute of Science and Technology

Jawaharlal Nehru Technological University,

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Date of Birth: 15-04-1969

Life member of Indian science congress, society for biological chemists, qudra

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| **Class** | **Name of the Board/Universit** | **School/College** | **Year** | **Subjects taken** |
| **S.S.C** | Board of secondary education | St.Joseph’s High School, Nellore | 1984 |  |
| **Intermediate** | Board of Intermediate education .A.P | V.R College,Nellore | 1986 | Biology, Physics & Chemistry |
| **B.Sc.** | Nagarjuna University | C.S.R Sarma College Ongole | 1989 | Botany, Zoology & Chemistry |
| **M.Sc.** | Sri Venkateswara University, A.P | Sri Venkateswara college of Arts & Sciences, S.V.University,Tirupathi, A.P | 1991 | Biochemistry |
| **M.Tech** | I.I.T –Delhi | I.I.T –Delhi | 1993 | Chemical analysis & Control. Specialization of Biotechnology |
| **Ph.D.** | Sri Venkateswara University, A.P | Sri Venkateswara college of Arts & Sciences, S.V.University,Tirupathi, AP | 2007 | Biochemistry |

#### Position and Employment:

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| **Sl No.** | **Institution Place** | **Position** | **From (Date)** | **To (date)** |
| 1. | Dr.Reddy’s research foundation, Hyderabad, A.P  | Biochemist | 1994 | 1995 |
| 2. | Department of Biochemical Engg. & Biotechnology, I.I.T –Delhi | R.A | 1995 | 1996 |
| 3. | S.S.N College, Ongole, A.P  | Assistant professor | 1996 | 2002 |
| 4. | Sri PadmavathiMahila University, Tirupathi, A.P | Assistant Professor  | 2004  | 2005 |
| 5. | C.C.M.B, Hyderabad  | DST Fast track fellow | 2005 | 2006 |
| 6. | JNTUH, Hyderabad. | Assistant Professor | 2006 | 2018 |
| 7. | JNTUH, Hyderabad. | Associate Professor | 2018 | Till Date |

##### **Honors/Awards**

 1. GATE Fellowship in 1992.

2. DST Young scientist fellowship in 2005.

**Ongoing &CompletedResearch Project(s)**

* **DST** sponsored Fast track fellowship on” ***To study the role of CA 125, Kallikreins, Estrogens and progesterone as a set of integrated biomarkers in ovarian cancer”***2005**.**
* **UGC minor Research Project “To Isolate and Characterize Synergistic Compounds of β-Lactams against Methicillin Resistant *Staphylococcus aureus* from Selected Plant Extracts”** 2007.
* **DST** sponsored Project on **“Rasayana Therapy”** as Co-investigator, 2008.
* **AICTE** sponsored Project on “**Production of Bioethanol from CBL waste of Paper mills**” 2009
* **CSIR** sponsored Project on **“Production of Bioethanol from Concentrated black liquor (CBL) Waste of Rajahmundry Paper mills”**2011
* **DBT** sponsored Project on” **Studies on the effects of Obesity and Obesity induced Type 2 Diabetes on advanced aging phenomenon,** 2012
* **INDO-US JOINT CLEAN ENERGY RESEARCH AND DEVELOPMENT CENTER (JCERDC. US-India Consortium for development of Sustainable Advanced Lignocellulosic Biofuel Systems. 2013.**
* **DBT** sponsored Project on “**Commercialization of sweet sorghum as a complimentary feed stack for ethanol production in the sugar mills of Maharashtra, Tamil Nadu and Gujarat**” 2015.
* **DBT** sponsored Project on “**Development of sorghum genotype suitable for lignocellulosic biofuel production through marker-assisted gene pyramiding of brown midrib genes**” 2016.
* **HPCL** sponsored project on “**Bioprocess optimization for selective delignification and generation of monomeric fermentable sugars via hydrolysis of lignocellulosic biomass for producing biofuels and valve added product**” 2016.
* **AICTE-MODROBS** sponsored project on **“Modernization of animal cell line engineering and metabolomic facility” 2017.**
* **DST-FIST R&D scheme to augment the postgraduate teaching and research facilities in the department in 2017.**

**Workshops Organized:**

1. Organized a 3-day workshop on “**Bioinformatics and Chemi-informatics**”, CIR, CBT IST, JNTU from 22-24th Nov. 2010.
2. Organized a 2-day workshop on “**Enzyme Engineering and Process optimization principles”**, CIR, CBT IST, JNTUH from 16-17th March. 2012.
3. Organised a 3-day workshop on **“Biostatistics, research methodology and manuscript preparation”** CIR, CBT, IST, JNTUH, from 24-26th July 2014
4. Organised a 3-day workshop on **“Fermentative production of ethanol from sweet sorghum juice”** CIR, CBT, IST, JNTUH, from 16-18th March 2016.
5. **Coordinator** for **“Acquiring and improving the skills through pharmacy and biotechnology”** at UGC HRDC from 06/02/2017 to 25/02/2017
6. **Co-convener** for **“International conference on biotechnology and Bioengineering”** at JNTUH held on23 rd -25 th March 2017.
7. **Course Coordinator** for **“Basic Principles and research advancements in life sciences and pharmaceutical sciences”** held from 22/01/2018 to 12/2/2018 at UGC HRDC.
8. **Co-convener** for **“Emerging Trends in Patents and IPR & Future Implications”** at IST, JNTUH held on 24th April 2018.
9. Attended workshop on **“NBA-SAR Filling and preparedness for assessment”** from 7th to 9th Feb 2018 at ESCI, Hyderabad.
10. Coordinator for **“National Level Competition for Bioscience Students in Association with BECon2k18-19 IIT Delhi Event &Make Intern”,** A 2-day workshop on Basic techniques in Molecular Biology at CBT-IST, JNTUH, held on 23rd and 24th July 2018.
11. Conducted a 3 day training program on **“Outcome Based Education & NBA Accreditation”** from 25th to 27th July 2018**.**
12. Organized a 3-day workshop on **“Fundamentals of CRISPR-Applications in Genome Editing”** from 27th to 29th September 2018 at CBT-IST, JNTUH.
13. Co-ordinator for a 3-day workshop on “**Migration, Navigation & Biomimicking Aerial Vehicles”** held at CBT-IST, JNTUH from 1st to 3rd November 2018.
14. Co-ordinator for a 5-day **GIAN** Course on “**Metabolic Engineering of Microbial Biocatalysts for Production of Fuels and Chemicals: Principles and Practice”** held at CBT-IST, JNTUH from 20th – 24th March 2019.
15. Coordinator for **“National Level Competition for Bioscience Students in Association with Shaastra Fest IIT Madras Event”,** A 2-day hands-on workshop on Bioinformatics at CBT-IST, JNTUH, held on 29th and 30th August 2019.
16. Coordinator for a one-day training Program on **“Hands-on Workshop on MATLAB Programming under finishing school”,** held at CBT-IST, JNTUH on 31st August 2019.
17. Coordinator for **“Two-day Workshop on Current Research & Future Innovations in Drug Discovery for Genome Medicine”,** held at CBT-IST, JNTUH on 29th and 30th November 2019.
18. Coordinator for **“Two-day Workshop on Sustainable Packaging- Eco-efficient & Value Creation”,** held at CBT-IST, JNTUH on 3rd and 4th December 2019.
19. **Co-convener** for **“National Conference on Biotechnology and Bioengineering trends”** at JNTUH held on27th-29th February 2020, sponsored by TEQIP III
20. TEQIP-III sponsored Online National Conference On **“Frontiers in Biotechnology & Bioengineering”** (NCFBB 2020) 16th to 18th July, 2020 in Centre for Biotechnology, IST, Jawaharlal Nehru Technological University Hyderabad.
21. Coordinator for **“Three-day Hands-on Workshop on Basics in Animal Cell Culture”** held at CBT-IST, JNTUH on 18th and 20th March 2021, sponsored by TEQIP-III
22. Coordinator for “Animal cell line technology” FDP sponsored by TSCOST-DBT Skill Vigyan Initiative held at CBT-IST, JNTUH from 7th and 17th March 2022.
23. Coordinator for “Animal cell line technology” ToT program sponsored by TSCOST-DBT Skill Vigyan Initiative held at CBT-IST, JNTUH from 7th and 17th March 2022.

Workshops Attended

**2020**

1. Dr. A. Uma Participated in the Webinar On "International workshop on research methodology in science” held on 5th-10th October 2020 by Aretex scientific international pvt. Ltd.
2. Participated in One-week AICTE-sponsored short-term training program on “Synthesis characterization and its applications of Nanomaterials” from 24th to 29th August 2020.

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**R&D PROJECT WITH SPONSORS**

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| **S. No** | **Coordinator** | **Title of the Project** | **Funding Agency** | **Duration** | **Starting & Closing Date** | **Cost of the Project (In Rs.)** |
| 1. | Dr. A. Uma | Production of Bioethanol from CBL waste of Paper mills”. | AICTE | 2 years | 2008-2010 | 9.8 lakhs |
| 2. | Dr. A. Uma | Production of Bioethanol from Concentrated black liquor (CBL) Waste of Rajahmundry Paper mills”. | CSIR | 3 years | 2010-2013 | 4.8 lakhs |
| 3. | Dr. A. Uma | Studies on the effects of Obesity and Obesity induced Type 2 Diabetes on advanced aging phenomenon. | DBT | 3 years | 2012-2015 | 56.96 lakhs |
| 4. | Dr. A. Uma | Consortium for development of Sustainable Advanced Lignocellulosic Biofuel Systems.  | INDO-US JOINT CLEAN ENERGY RESEARCH AND DEVELOPMENT CENTER | 5 years | 2012-2017 | 96.54 lakhs |
| 5 | Dr.A.Uma | Commercialization of sweet sorghum as a complimentary feed stack for ethanol production in the sugar mills of Maharashtra, Tamil Nadu and Gujarat  | DBT | 3 years | 2015-2018 | 3.87 |
| 6 | Dr.A. Uma | Development of sorghum genotype suitable for lignocellulosic biofuel production through marker-assisted gene pyramiding of brown midrib genes | DBT | 3 years | 2016-2019 | 14.28 |
| 7 | Dr.A.Uma | Bioprocess optimization for selective delignification and generation of monomeric fermentable sugars via hydrolysis of lignocellulosic biomass for producing biofuels and valve added product | HPCL  | 2 years | 2016-18 | 42.84 |
| 8 | Dr.A.Uma | DST-FIST R&D Scheme (to augment the postgraduate teaching and research facilities in the department) | DST-FIST | 5 years | 2017-2022 | 59 lakhs |
| 9 | Dr.A.Uma | Modernization of animal cell line engineering and metabolomic facility | AICTE-MODROBS | 2 years | 2017-18 | 16 lakhs |
| 10 | Dr.A.Uma | Screening of Sorghum cultivars for high antioxidant activity. | TEQIP-III | 2 years | 2018-20 | 2 lakhs |
| 11 | Dr.A.Uma | Effects of Sorghum Antioxidants and Cytotoxic compounds on Wnt/canonical pathway in Cancer and Aging | TEQIP-III | 2 years | 2019-21 | 2 lakhs |
| 12 | Dr.A.Uma | Fungal selection and bioprocess optimization to obtain higher cellulolytic activities during scale up. | HPCL  | 1 year | 2019-20 | 20.37 lakhs |
| 13 | Dr.A.Uma | Membrane based pilot scale preparation of sorghum syrup and its evaluation for antidiabetic, anticancerous and antiaging effects | AICTE-RPS | 3 years | 2019-22 | 10 lakhs |
| 14 | Dr.A.Uma | “Animal cell line technology” FDP | TSCOST-DBT Skill Vigyan Initiative | 3 Years | 2021-24 | 18 Lakhs |
| 15 | Dr.A.Uma | “Animal cell line technology” ToT | TSCOST-DBT Skill Vigyan Initiative | 1 Year | 2021-22 | 3 Lakhs |

**NATIONAL AND INTERNATIONAL JOURNAL PAPERS**

**2004**

1. K Thyagaraju, K Vasundhara, B Hemavathi, **A Uma**, KN Devi (2004). Effect of phenobarbital on the induction of glutathione S-transferases in rat testis. Reproductive Biomedicine Online, 8 (1), 68-74. (Impact Factor: 3.249) ISSN:1472-6483

**2005**

1. Thyagaraju K, **Uma A**, Vasundhara K, Hemavathi B, Devi KN (2005). Comparative study on glutathione transferases of rat brain and testis under the stress of phenobarbitol and β- Methylcholanthrene. [Journal of Zhejiang University Science](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1389857/), 6(8), 759–769. (Impact Factor:0.941); ISSN 1009-3095

**2007**

1. Thyagaraju K, **Uma A**, Ruxana Begum Sk, Sandhya D, Sreenivasulu D, Lakshminarasaiah U (2007).Induction of Glutathione S. Transferases of Rat Brain under the Influence of Phenobarbital. The Bioscan journal, 2 (3), 241-248.

**2010**

1. S.N.Veenapani, M.Meenabai**, A.Uma**, K.Venkatasubbaiah, K.J.Rao and K.Thyagaraju (2010). Glutathione S Transferase Protein, Nucleic Acid, Chromatin, Cell Nuclei and Structural Variation Analysis of Erythrocyte, Bone Marrow Cell and Hepatocytes of Rats under the Influence of Acryalmide.The Bioscan Journal, 5(3), 477-481.

**2012**

1. G. Baby Rani , T. Chiranjeevi , Ch. Madhu, N. Naga Raju, A. Das, M. Lakshmi Narasu, **Uma Addepally (2012).** Potential of thermo and alkali stable xylanases from *Thielaviopsis basicola* (MTCC-1467) in biobleaching of wood kraft pulp. Applied Biochemistry and Biotechnology, 167(8), 2369-2380**.** DOI: 10.1007/s12010-012-9765-x
2. T. Chiranjeevi, G. Baby Rani, Anuj K. Chandel, R.S. Prakasham, **Uma Addepally**, Optimization of Holocellulolytic enzymes production by *Cladosporium cladosporioides*Using Taguchi-L16Orthogonal array. *Journal of Biobased materials and Bioenergy,* 2012,6(2),148-157. DOI:10.1166/jbmb.2012.1201.
3. D. Nagaiah, P. Srinivasa Rao, R. S. Prakasham, **A. Uma**, K. Radhika, YoganandBarve, A. V. Umakanth, High Biomass Sorghum as a Potential Raw Material for Biohydrogen Production: A Preliminary Evaluation.*Current Trends in Biotechnology and Pharmacy*, 2012, 6 (2):183-189. ISSN 0973-8916 (Print), 2230-7303 (Online)
4. V. SurendraBabuDamerla, Chiranjeevi Tulluri, Dr.RambabuGundla, Lava Naviri, **Uma Adepally**, Pravin S. Iyer, Y. L. N. Murthy, Nampally Prabhakar, Dr.Subhabrata Sen, Reagent-Based DOS: Developing a Diastereoselective Methodology to Access Spirocyclic- and Fused Heterocyclic Ring Systems. *Chemistry-An Asian Journal*, 2012, 2(10):2351-2360 DOI:10.1002/asia.201200385. (**Impact factor: 4.57)**

**2013**

1. Chiranjeevi Thulluri, Baby Rani Goluguri, Radhika Konakalla, Prakasham Reddy Shetty, Uma Addepally, The effect of assorted pretreatments on cellulose of selected vegetable waste and enzymatic hydrolysis. Biomass and Biodiversity, 2013, 49:205-213; ISSN:0961-9534
2. N. Kumudini, **A. Uma**,Y.Prameela Devi, SK. Mohammad Naushad, R Mridula, R. Borgohain, K. Vijay kumar, Impact of COMT H108L, MAOB int 13 A>G and DRD2 halotype on the susceptibility to Parkinson’s disease in South Indian subjects. Indian Journal of Biochemistry & Biophysics, **2013**, 50: 436-441. ISSN: (Online); 0301-1208 (Print)
3. Konakalla Radhika, Gajula Chandra Sekhar, Addepally Uma, Mangamoori Lakshmi (2013). [fermentation of enzymatically saccharified brassica compestris stalks for fuel ethanol production by pichiastipitisncim 3498](https://www.jgtps.com/admin/uploads/KBF4tS.pdf). Journal of Global Trends in Pharmaceutical Sciences, 4(3), 1206-1215; ISSN: 2230-7346
4. NarenderPottabathini, Ramesh Garlapati, VenkateshwarluGurram, Chiranjeevi Thulluri, RambabuGundla, Pavan Kumar Machiraju, Suvarna L Ch. Reddy, **Uma Addepally**, Venkata Rao Chunduri, BalaramPatro, Synthesis and biological evolution of quinazolinone derivatives as potential anti-microbial agents via Pd-mediated C-N and C-C bond formation with a common catalyst system: ChemInformatics Studies. ***European Journal of Medicinal Chemistry*,2013**. (**Impact factor: 3.45)**
5. R. Borgohain; K. Nadella; A. Uma; R. M. Kandadai; V. K. Kutala (2013). Association of dopamine metabolizing gene polymorphisms in Parkinson's disease - A study from India. Movement Disorders, 28, S399
6. B. Venkanna, **A. Uma**, Ch. Suvarnalaxmi, N. Chandrasekharnath, R. S. Prakasham, L. Jayalaxmi, Antimicrobial property of *Datura* leaf extract against Methicillin-resistant *Staphylococcus aureus* isolated from Urethral and Skin Suppurative Infections. *Current Trends in Biotechnology and Pharmacy,* ***2013****:* 7 (3) 782-792. ISSN 0973-8916 (Print), 2230-7303 (Online)
7. N. Chandrasekharnath, Y.V Mahlakshmi, L. Jayalakshmi, B. Venkanna, **A. Uma**, Screening and isolation of bioactive factors from Commiphoramyrrha and evaluation of their antimicrobial activity. *International Journal of Engineering Research and Applications(IJERA****)*2013**, 3(2), 1291-1294. ISSN: 2248-9622
8. N. Chandrasekharnath, B. Venkanna, Y.V. Mahlakshmi, **A. Uma**, Phytochemical analysis and antimicrobial activity of various solvent extracts of *Punica granatum* and *Phyllanthus niruri. Pharmanest-An International Journal of Advances in Pharmaceutical Sciences*, **2013**, 4(2) 191-196. ISSN 2231-0541
9. D. Nagaiah, R. S. Prakasham, A. V. Umakanth, **A. Uma,** P. Srinivasa Rao, Sweet Sorghum Juice as an Alternate Substrate for Fermentative Hydrogen Production: Evaluation of Influencing Parameters Using DOE Statistical Approach. *Sugar Tech,* ***2013***, 15(3), 338-344, DOI 10.1007/s12355-013-0223-z.
10. Ramesh Garlapati, Narender Pottabathini, VenkateshwarluGurram, Kumara Swamy Kasani, Rambabu Gundla, Chiranjeevi Thulluri, Pavan Kumar Machiraju, Avinash B. Chaudhary, **Uma Addepally**, RaveendraDayam, Venkata Rao Chunduri, BalaramPatro, Development of α-Glucosidase inhibitors by room temperature C-C cross couplings of quinazolinones. *Organic and Biomolecular Chemistry*, **2013** 11(29), 4778-4791. DOI: 10.1039/c3ob40636a. (**Impact factor: 3.56)**
11. Sanjay Saha, Ch. VenkataRamana Reddy, T. Chiranjeevi, **Uma Addepally**, T. S. ChintaRao, BalaramPatro, The first total synthesis and biological evaluation of marine natural products ma’edamines A and B.*Bioorganic& Medicinal Chemistry Letters,* ***2013*** 23:1013–1016. <http://dx.doi.org/10.1016/j.bmcl.2012.12.033> (**Impact factor: 2.338);ISSN: 0960-894X**
12. [RamuSurakanti](https://www.researchgate.net/researcher/2007397818_Ramu_Surakanti/), [SumalathaSanivarapu](https://www.researchgate.net/researcher/2007300973_Sumalatha_Sanivarapu/), Chiranjeevi Thulluri, [Pravin S Iyer](https://www.researchgate.net/researcher/84438898_Pravin_S_Iyer/), [Raghuram S Tangirala](https://www.researchgate.net/researcher/2007404297_Raghuram_S_Tangirala/), [RambabuGundla](https://www.researchgate.net/researcher/84422924_Rambabu_Gundla/), [**Uma Addepally**](https://www.researchgate.net/researcher/2007257872_Uma_Addepally/), [Y L N Murthy](https://www.researchgate.net/researcher/84414845_Y_L_N_Murthy/), [Lakshmi Velide](https://www.researchgate.net/researcher/2007252631_Lakshmi_Velide/), [Subhabrata Sen](https://www.researchgate.net/researcher/84441460_Subhabrata_Sen/), [Synthesis of Privileged Scaffolds by Using Diversity-Oriented Synthesis.](https://www.researchgate.net/publication/236064850_Synthesis_of_Privileged_Scaffolds_by_Using_Diversity-Oriented_Synthesis?ev=prf_pub)*Chemistry – An Asian Journal*, **2013** 8: 1168 – 1176. DOI: 10.1002/asia.201201203. (**Impact factor: 4.57)**
13. Subhabrata Sen, Siva R. Kamma, RambabuGundla, **Uma Addepally**, Santosh Kuncha, Sridhar Thirnathi, U. Viplava Prasad, A Reagent based DOS strategy via Evans chiral auxiliary: Highly stereoselective Michael reaction towards optically active quinolizidinones, piperidinones and pyrrolidinones. *The Royal Society of Chemical. RSC Adv*., **2013**, 3: 2404–2411. **DOI:** 10.1039/c2ra22115b. (**Impact factor: 2.562)**

**2014**

1. T. Chiranjeevi, **A. Uma**, K. Radhika, G. Baby Rani, M. Lakshmi Narasu, R.S. Prakasham, P. Srinivasa Rao, A.V. Umakanth, Enzymatic hydrolysis of market vegetable waste and subsequent ethanol Fermentation-Kinetic evaluation. *Journal of Biochemical Technology*. **2014**, 5(4):775-781. ISSN: 0974-2328(internaltional)
2. Lakshmi SwarnalathaJasti, Sandhya Rani Dola, Nitin W Fadnavis, Uma Addepally, Siona Daniels, Surendra Ponrathnam, Co-immobilized glucose oxidase and β galactosidase on bovine serum albumin coated allyl glycidyl ether (AGE)-ethylene glycol dimethacrylate (EGDM) copolymer as a biosensor for lactose determination in milk. Enzyme and Microbial technology 64-65, 2014,67-73. ISSN: 0141-0229
3. A Pavani, Sk. Mohmmad, **A. Uma**, VijayKumarK, Methodological issues in the development of a pharmacogenomic algorithm for warfarin dosing: comparision of two repression approaches. *Pharmacogenomics,* ***2014,*** 15(8): 1125-1132. ISSN:1462-2416
4. Y Rupasree, SM Naushad, L Rajasekhar, **A Uma** and VK Kutala**,** Association of TLR-4 (D299G, T399I), TLR9-14865>C, TIRAP S180L and TNF-α promoter (-1031, -863, -857) polymorphism with risk for systemic lupus erythematosus among south Indians. *Lupus*, 2014, 0, 1–8**.DOI:10.1177/0961203314549792**
5. SujathaThathapudi, VijayalakshmiKodati, Ahuja Yog Raj, **Uma Addepally**, AnuradhaKatragadda, Qurratulain Hasan, Tumor Necrosis Factor-Alpha and Polycystic Ovarian Syndrome: a clinical, biochemical and molecular genetic study. Genetic testing and Molecular Biomarkers*,* ***2014****, 18(9), 605-609.DOI: 10.1089/gtmb.2014.0151*
6. [Nadella Kumudini](http://link.springer.com/search?facet-author=%22Nadella+Kumudini%22), **[Addepally Uma](http://link.springer.com/search?facet-author=%22Addepally+Uma%22)**, [Shaik Mohammad Naushad](http://link.springer.com/search?facet-author=%22Shaik+Mohammad+Naushad%22), [Rukmini Mridula](http://link.springer.com/search?facet-author=%22Rukmini+Mridula%22), [RupamBorgohain](http://link.springer.com/search?facet-author=%22Rupam+Borgohain%22), [Vijay Kumar Kutala](http://link.springer.com/search?facet-author=%22Vijay+Kumar+Kutala%22), Sexual dimorphism in xenobiotic genetic variants-mediated risk for Parkinson’s disease. [Neurol Sciences](http://www.ncbi.nlm.nih.gov/pubmed/24389856), **2014, 35 (6), 897-903**. DOI 10.1007/s10072-013-1622-3
7. [Lakshmi S. Jasti](http://www.sciencedirect.com/science/article/pii/S0927776514000034), [Nitin W. Fadnavis](http://www.sciencedirect.com/science/article/pii/S0927776514000034), [**Uma Addepally**](http://www.sciencedirect.com/science/article/pii/S0927776514000034), [Siona Daniels](http://www.sciencedirect.com/science/article/pii/S0927776514000034), [Sarika Deokar](http://www.sciencedirect.com/science/article/pii/S0927776514000034), [Surendra Ponrathnam](http://www.sciencedirect.com/science/article/pii/S0927776514000034), Comparison of polymer induced and solvent induced trypsin denaturation: The role of hydrophobicity. *Colloids and Surfaces B Biointerfaces*, 2014, 116:201-205. doi: 10.1016/j.colsurfb.**2014**.01.002. (**Impact factor: 3.55**). ISSN:0927-7765
8. Lakshmi SwarnalathaJasti, Sandhya Rani Dola, ThenkrishnanKumaraguru, SreedharBajja, Nitin W. Fadnavis, **Uma Addepally**, KishorRajdeo, SurendraPonrathnam, SarikaDeokar, Protein-coated polymer as a matrix for enzyme immobilization: Immobilization of trypsin on bovine serum albumin-coated allylglycidyl ether–ethylene glycol dimethacrylate copolymer. *Biotechnology Progress*, **2014**, 30(2), 317-323 DOI: 10.1002/btpr.1871 (**Impact factor: 1.8**).
9. SujathaThathapudi, VijayalakshmiKodati, JayashankarErukkambattu, AnuradhaKatragadda, **Uma Addepally**, Qurratulain Hasan, Anthropometric and Biochemical Characteristics of Polycystic Ovarian syndrome in south Indian women using AES-2006 criteria. *International Journal of Endocrinology &Metabolism*, **2014**, 12 (1):e12470.DOI:10.5812/ijem.12470.
10. Konakalla Radhika, Uma Addepally, Tulluri Chiranjeevi, Satya Lakshmi Kota, Improved Cellulase production using Sorghum Biomass as carbon source by Aspergillus sp. Using Plackett-Burman and response surface methodology under SmF conditions. International Journal of Recent Trends in Science and Technology, 2014; 13(1):154-162. ISSN 2277-2812 E-ISSN 2249-8109
11. Yumnam Priyadarshini Devi, Addepally Uma, Mangamoori Lakshmi Narasu, Chepuri Kalyani, Anticancer activity of gallic acid on cancer cell lines, HCT15 and MDA MB 231, International Journal of Research in Applied, Natural and Social Sciences, 2014, 2(5):269-272 ISSN2321-8851; ISSN(P): 2347-4580
12. G. Baby Rani, **A. Uma**, T. Chiranjeevi, K. Radhika, Anuj K. Chandel, T. Satish, M. Lakshmi Narasu, Optimization of selective production media for enhanced production of xylanases in submerged fermentation by *Thielaviopsis basicola* (MTCC-1467) using L16Orthogonal Array. *Journal of Food Science and Technology, 2014,* 51(10):2508-2516 DOI 10.1007/s13197-012-0784-y. (**Impact factor: 1.12)**
13. Nadella Kumudini, Addepally Uma, YalavarthyPrameela Devi, Shaik Mohammad Naushad, Rukmini Mridula, RupamBorgohain and Vijay Kumar Kutala, Association of Parkinson’s disease with altered serum levels of lead and transition metals among South Indian subjects. Indian Journal of Biochemistry and Biophysics , 2014, 51, 121-126.
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4. Hariom Kumar,  Manoj Dhameja,  Sirisha Kurella,  Adepally Uma,  Preeti Gupta. Synthesis of 1,2,3-triazole-1,3,4-thiadiazole hybrids as novel α-glucosidase inhibitors by in situ azidation/click assembly. P., Arch. Pharm. 2023, e2300145.

**Book chapters:**

1. **Uma Addepally**, Chiranjeevi Thulluri. The recent progress in genetically engineered xylanases: Production and Industrial Applications.Book:Biotechnology Vol.5, Gene and Protein engineering (2014). ISBN: 10:1-626990-20-4. Publisher: Studium Press.
2. P. Srinivas Rao, K.S. Vinutha, G.S. Anil Kumar, T. Chiranjeevi, **A. Uma,** Pankaj Lal, R.S. Prakasham, H.P. Singh, R. Sreenivasa Rao, Surinder Chopra and Shibu Jose. Sorghum: Amulti-purpose bioenergy crop. Book: Sorghum: State of the Art and Future Perspectives (2016).ISBN: 978-0-89118-628.Publisher:American Society of Agronomy and Crop Science Society of America, Inc.
3. Chiranjeevi Thulluri, **Uma Addepally** and Baby Rani Goluguri. Production ofHolocellulolytic enzymes by *Cladosporium cladosporioides*under submerged and solid stateconditions using vegetable waste as carbon source. Book: Chemical and Bioprocess Engineering Trends and Developments (**2015**). ISBN: 9781771880770Publisher:CRC Press Taylor & Francis Group, Apple academic press.
4. N.Chari, Sesha Srinivas Vutukuru, R.Saicharan, **A.Uma**. Chitinous membranes and analogous material. Book:Bio-Physics of Flight.Publisher: NDRF:The Institution of Engineers (India).2016
5. N.Chari, Sesha Srinivas Vutukuru, R.Saicharan, **A.Uma**. Flight Morphology and Flight Muscles Book: Bio-Physics of Flight. Publisher: NDRF:The Institution of Engineers (India).
6. Uma Addepally, ChiranjeevuThulluri, Vani Gandham, Kiran Kumari Palety, KanakarajuYerra, “[Role of White Biotechnology in 2G Biofuels: Biocatalytic Process Development for the Hydrolysis of Lignocellulosic Biomass](https://link.springer.com/chapter/10.1007/978-3-030-29069-6_11)” Horizons in Bioprocess Engineering, Springer, Cham,197-210.
7. Venkanna Banothu & Uma Addepally., *Effect of Biotic and Abiotic Stresses on Plant Metabolic Pathways (Phenolic Compounds – Chemistry, Synthesis, Diversity, Non-Conventional Industrial, Pharmaceutical and Therapeutic Applications).*, IntechOpen Limited 5, Princes Gate Court, London, SW7 2QJ, United Kingdom., 978-1-83969-347-2 (Online published), 978-1-83969-346-5 (Book-Print) & 978-1-83969-348-9 (E-Book-PDF)., 2022

**Proceedings:**

**International & Notational Conference:**

1. D.Sandhya Rani.Tamvada, B.Venkanna, P.Praveenya, **Uma.A**. Antimicrobial activity of ‘Nyctanthes arbortristis’ against selected strains of MRSA. National Conference on Plant Biotechnology towards Nutrition&Nutraceutical potential, September 30th to October 1st, 2010.
2. D.Sandhya Rani.Tamvada, B.Venkanna, P.Praveenya, **Uma.A**. Antibacterial bacterial activity of *N.arbortristis* in combination with certain antibiotics against multidrug resistant pathogen-MRSA. International conference on Biotechnology-Aglobal senario, November 2nd, 3rd, 4th , 2010.
3. R.S. Prakasham, **A. Uma**, G.Baby Rani, K.Radhika,T.Chiranjeevi. Optimization of Pretreatment methods for agri-indusrial materials, INDO-CANADA work shop held at IICT in Jan 2011.
4. N.kumudini, S.M.Naushad, S.Narendra Kumar, **A.Uma**, K.Vijay Kumar. *Insilico* evidence for the association of Catechol-O-Methyl transferase V158M polymorphism with increased susceptibility to Parkinson’s disease and breast cancer. National conference on “Biomarkers for diseases-prospects and Challenges”, Feb, 24-25th, 2012.
5. Sujatha T, Kodati V, JayaShankar E, Ahuja YR, **Uma A**,Anuradha K, Q Hasan (2013). Anthropometric and Biochemical Characteristics of PCOS Patents in South Indian Women. ISHG, International symposium on developmental and complex disorders & 38th Annual conference of the Indian society of Human Genetics: Genomics and Community Health. December 9-11, 2012.
6. **A.Uma,** T.Chiranjeevi, K. Satyalakshmi, Amal Pradeep, RS. Prakasham, Application of Solid state fermentation for cellulases production by *Cladosporium cladosporioides* and *Trichoderma reesei* MTCC 1168. Indo-US conference on advanced lignocellulosic biofuels, held in IICT on 10-11th, Nov, **2014**.
7. Ch. Suvarna Lakshmi Sheik Aliya, Adepelly Uma\*,YalavarthyPrameela Devi, VenkannaBanothu, Evaluation of antibacterial, anthelminthic and cytotoxic activity of medicinal plant Stevia rebaudianaBertoni, International Conference on New dimensions in Chemistry and Chemical Technologies, 2014.
8. Raveendranath D, Sri Rama Murthy K, Harinatha Reddy A, Vijayalakshmi B, Uma A, Ramesh B (2014). Development of multiresidue method for the detection of 46 pesticide mix by gas chromatography coupled with triple quadrupole mass spectrometry. Proceedings of the Global Summit on Emerging Science and Technologies: Impact on Environment and Human Health.
9. Gandham Vani, Thulluri Chiranjeevi, Danavath Ravi, and **AddepallyUma**, Development of green adhesive using water hyacinth lignin. International R&D Conference on energy innovation-Today and Tomorrow, held in HP Green R&D Centre, Bengaluru on 14th- 15thOctober, 2016.
10. Saba K, Potukuchi A, Addepally U., Raghunath M. and Bahadur A. Obesity alters neurotransmitter cycling fluxes across the brain in Wnin/Gr-Ob obese rat. Paper in National Conference on recent trends in neurological and Psychiatric Research, At CCMB, Hyderabad 30(2016).
11. Danavath Ravi, Thulluri Chiranjeevi, Palety Kiran kumari, **AddepallyUma**, Catalytic conversion of algal cell wall polysaccharides into furan-based platform chemical feedstocks International R&D Conference on energy innovation-Today and Tomorrow, held in HP Green R&D Centre, Bengaluru on 14th - 15th October, 2016.
12. Vani Gandham, **Uma Addepally,**T.BalaNarsaiah, P. Kirankumari, T. Chiranjeevi, D.Ravi, Y.KanakaRaju Oral presentation on “Preparation of lignin Based Adhesive from Bamboo” International conference on biotechnology and Bioengineering 23 rd -25 th March 2017.
13. **Uma Addepally**, VenkannaBanothu, VikkyRajulapati, Jayalakshimi lingam Oral presentation on “Screening of biochemical tests and crude extracts of Albizia odoratissima leaves for antibacterial activity” International conference on biotechnology &amp; Bioengineering 23 rd -s25 th March 2017
14. Kiran kumari Palety, Umakanth A.V, T. Bala Narsaiah, Uma Addepally, Oral presentation on "**Effect of Storage on stability of antioxidants in commercial fruit juices"**3rd International conference on environmental management,27th -30 th November 2017, VOL-1, Page no 85-90, ISBN 978-93-86819-50-5.
15. KirankumariPalety,  UmakanthA.v, T. BalaNarsaiah, Uma Addepally,VenkannaBonthu Oral presentation on “**Comparative evaluation of Antioxidants of grains  from sorghum varieties with fresh fruits”** International conference on biotechnology &Bioengineering 23rd -25 th March 2017 ISBN 978-93-85518-10-2.
16. Vani Gandham, T. BalaNarsaiah, Uma Addepally, Oral presentation on “Synthesis of lignin nanoparticles using Ball mill Technique” ;  3rd International conference on environmental management,27th -30 th November 2017, VOL-1, Page no 85-90, ISBN 978-93- 86819-50- 5.
17. N.Mounika, MuralidharaRao.D, A.Uma. Isolation and characterization of thermotolerant Azotobacter spp. International Conference on climate Change and Food Security: Ethical Perspective 11th - 13th February, 2016
18. Y.Kanakaraju, **Uma Addepally,** Vani Gandham , P. Kirankumari, Oral presentation on “A two-step membrane separation process for production of ethanol from sweet sorghum juice by using*Saccharomyces cerevisiae”*National conference on Opportunities and Challenges in Fermentation Based Industrial Processes” at CSIR-IIIM Jammu & Kashmir on September 13-14th, 2018.
19. K. Naga Lalitha , G. Krishna Mohan and A. Uma, Expression of IL8 gene in non small cell lung cancer cells & preparation of IL8 siRNA conjugated functionalized carbon nanotubes, International Conference on Current Trends in Material Science and Engineering (CTMSE 2019), organized by Institute of Engineering & Management , Kolkata and S.N.Bose National Centre for Basic Sciences, Kolkata held on 18th – 20th July 2019.
20. Kavitha. S, Uma. A, Radhika. K, Suresh Babu. B, Identification, Production and Optimization of Lipase B from Sporisorumreilianum, International conference on New dimensions in chemistry and chemical technologies-Applications in Pharma Industry, 2014, pp. 342-347.

**Webinars Attended**

**2021**

1. Dr.A. Uma Has Participated in the Webinar On "Employee Separation and retention" Held On 22 June 2021 by National Productivity Council (NPC), New Delhi.
2. Dr.A. Uma Has Participated in the Webinar On "WEBINAR ON TRANSPARENCY, OWNERSHIP & RESPONSIBILITY AND EMPLOYEE ENGAGEMENT"Held On 18 June 2021 by National Productivity Council (NPC), New Delhi.
3. Dr.A. Uma Has Participated in the Webinar On "Project Management: Construction of Project Networkusing CPM & PERT"Held On 24 June 2021 by National Productivity Council (NPC), New Delhi.
4. Dr.A. Uma Has Participated in the Webinar On "Recognizing Employee Contributions with Pay"Held On 29 June 2021 by National Productivity Council (NPC), New Delhi.
5. Resource person in Online five-day National Faculty Development Program on “**Life Sciences for Engineers**” during 23 – 27, June 2021.
6. Participated Webinar on "Full Flow Cytometry: A Better Way of Doing Flow Cytometry”, organized by Cytek Biosciences held on June 8th 2021.