

## BIO-DATA

Name: **Dr. A. Uma**  
Designation: Associate Professor  
**Department/Institute/University:** **Centre for Biotechnology**  
Institute of Science and Technology  
Jawaharlal Nehru Technological University,  
Mobile: +91-9848120819  
Email: [vedavathi1@gmail.com](mailto:vedavathi1@gmail.com),  
[vedavathi1@jntuh.ac.in](mailto:vedavathi1@jntuh.ac.in)

Date of Birth: 15-04-1969

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

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

### Position and Employment:

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 & Completed Research 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  $\beta$ -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 value 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 post graduate teaching and research facilities in the department 2017.

#### **Workshops Organized:**

1. Organized a 3-day workshop on “**Bioinformatics and Cheminformatics**”, CIR, CBT IST, JNTU during 22-24<sup>th</sup> Nov. 2010.
2. Organized a 2-day workshop on “**Enzyme Engineering and Process optimization principles**”, CIR, CBT IST, JNTUH during 16-17<sup>th</sup> March. 2012.
3. Organised a 3-day workshop on “**Biostatistics, research methodology and manuscript preparation**” CIR, CBT, IST, JNTUH, during 24-26<sup>th</sup> July 2014
4. Organised a 3-day workshop on “**Fermentative production of ethanol from sweet sorghum juice**” CIR, CBT, IST, JNTUH, during 16-18<sup>th</sup> 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 on 23 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 24<sup>th</sup> april 2018.
9. Attended workshop on “**NBA-SAR Filling and preparedness for assessment**” from 7<sup>th</sup> to 9<sup>th</sup> Feb 2018 at ESCI, Hyderabad.
10. Coordinator for “**National Level Competition for Bioscience Students in Association with BECon 2k18-19 IIT Delhi Event & Make Intern**” , A 2 day workshop on Basic techniques in Molecular Biology at CBT-IST, JNTUH, held on 23<sup>rd</sup> and 24<sup>th</sup> July 2018.
11. Conducted a 3 day training program on “**Outcome Based Education & NBA Accreditation**” from 25<sup>th</sup> to 27<sup>th</sup> July 2018.
12. Organized a 3-day workshop on “**Fundamentals of CRISPR-Applications in Genome Editing**” from 27<sup>th</sup> to 29<sup>th</sup> September 2018 at CBT-IST, JNTUH.
13. Co-coordinator for a 3-day workshop on “**Migration, Navigation & Biomimicking Aerial Vehicles**” held at CBT-IST, JNTUH from 1<sup>st</sup> to 3<sup>rd</sup> 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 20<sup>th</sup> – 24<sup>th</sup> 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 29<sup>th</sup> and 30<sup>th</sup> August 2019.
16. Coordinator for one day training Program on “**Hands on Workshop on MATLAB Programming under finishing school**”, held at CBT-IST, JNTUH on 31<sup>st</sup> 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 29<sup>th</sup> and 30<sup>th</sup> November 2019.
18. Coordinator for “**Two day Workshop on Sustainable packaging- Eco efficient & Value Creation**”, held at CBT-IST, JNTUH on 3<sup>rd</sup> and 4<sup>th</sup> December 2019.
19. **Co-convener** for “**National Conference on Biotechnology and Bioengineering trends**” at JNTUH held on 27<sup>th</sup> -29<sup>th</sup> February 2020, sponsored by TEQIP III

## R&D PROJECT WITH SPONSORS

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 value 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	AICTE-RPS	3 years	2019-22	10 lakhs

		antidiabetic, anticancerous and antiaging effects				
--	--	--	--	--	--	--

## **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**

2. 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  $\beta$ -Methylcholanthrene. Journal of Zhejiang University Science, 6B (8), 759–769. (Impact Factor:0.941); ISSN 1009-3095

### **2007**

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

### **2010**

4. 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 Acrylamide. The Bioscan Journal, 5(3), 477-481.

### **2012**

5. 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

6. T. Chiranjeevi, G. Baby Rani, Anuj K. Chandel, R.S. Prakasham, **Uma Addepally**, Optimization of Holocellulolytic enzymes production by *Cladosporium cladosporioides* Using Taguchi-L<sub>16</sub>Orthogonal array. *Journal of Biobased materials and Bioenergy*, 2012, 6(2),148-157. DOI:10.1166/jbmb.2012.1201.
7. 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)
8. V. SurendraBabu Damerla, Chiranjeevi Tulluri, Dr.Rambabu Gundla, Lava Naviri, **Uma Addepally**, 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

9. 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
10. 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:0975-0959 (Online); 0301-1208 (Print)
11. Konakalla Radhika, Gajula Chandra Sekhar, Addepally Uma, Mangamoori Lakshmi (2013). fermentation of enzymatically saccharified brassica compestris stalks for fuel ethanol production by pichia stipitis ncim 3498. *Journal of Global Trends in Pharmaceutical Sciences*, 4(3), 1206-1215; ISSN: 2230-7346
12. 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)**
13. 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
14. 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)



15. N. Chandrasekharnath, Y.V Mahlakshmi, L. Jayalakshmi, B. Venkanna, **A. Uma**, Screening and isolation of bioactive factors from Commiphora myrrha and evaluation of their antimicrobial activity. *International Journal of Engineering Research and Applications(IJERA)***2013**, 3(2), 1291-1294. ISSN: 2248-9622
16. 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
17. 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.
18. Ramesh Garlapati, Narender Pottabathini, Venkateshwarlu Gurram, Kumara Swamy Kasani, Rambabu Gundla, Chiranjeevi Thulluri, Pavan Kumar Machiraju, Avinash B. Chaudhary, **Uma Addepally**, Raveendra Dayam, Venkata Rao Chunduri, Balaram Patro, Development of  $\alpha$ -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**)
19. 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**
20. RamuSurakanti, SumalathaSanivarapu, Chiranjeevi Thulluri, Pravin S Iyer, Raghuram S Tangirala, RambabuGundla, **Uma Addepally**, Y L N Murthy, Lakshmi Velide, Subhabrata Sen, Synthesis of Privileged Scaffolds by Using Diversity-Oriented Synthesis. *Chemistry – An Asian Journal*, **2013** 8: 1168 – 1176. DOI: 10.1002/asia.201201203. (**Impact factor: 4.57**)
21. 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

22. 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(international)
23. Lakshmi Swarnalatha Jasti, Sandhya Rani Dola, Nitin W Fadnavis, Uma Addepally, Siona Daniels, Surendra Ponrathnam, Co-immobilized glucose oxidase and  $\beta$  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

24. A Pavani, Sk. Mohmmad, **A. Uma**, VijayKumarK, Methodological issues in the development of a pharmacogenomic algorithm for warfarin dosing: comparison of two regression approaches. *Pharmacogenomics*, **2014**, 15(8): 1125-1132. ISSN:1462-2416
25. Y Rupasree, SM Naushad, L Rajasekhar, **A Uma** and VK Kutala, Association of TLR-4 (D299G, T399I), TLR9-14865>C, TIRAP S180L and TNF- $\alpha$  promoter (-1031, -863, -857) polymorphism with risk for systemic lupus erythematosus among south Indians. *Lupus*, 2014, 0, 1–8. DOI:10.1177/0961203314549792
26. 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
27. Nadella Kumudini, **Addepally Uma**, Shaik Mohammad Naushad, Rukmini Mridula, RupamBorgohain, Vijay Kumar Kutala, Sexual dimorphism in xenobiotic genetic variants-mediated risk for Parkinson's disease. *Neurol Sciences*, **2014**, **35(6)**, 897-903. DOI 10.1007/s10072-013-1622-3
28. Lakshmi S. Jasti, Nitin W. Fadnavis, **Uma Addepally**, Siona Daniels, Sarika Deokar, Surendra Ponrathnam, 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
29. Lakshmi Swarnalatha Jasti, 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 allyl glycidyl ether–ethylene glycol dimethacrylate copolymer. *Biotechnology Progress*, **2014**, 30(2), 317-323 DOI: 10.1002/btpr.1871 (**Impact factor: 1.8**).
30. 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.
31. 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
32. 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
33. 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 L16 Orthogonal Array. *Journal of Food Science and Technology*, 2014, 51(10):2508-2516 DOI 10.1007/s13197-012-0784-y. (**Impact factor: 1.12**)

34. Nadella Kumudini, Addepally Uma, Yalavarthy Prameela Devi, Shaik Mohammad Naushad, Rukmini Mridula, Rupam Borgohain 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.
35. Sujatha Thathapudi, Vijayalakshmi Kodati, Ahuja Yog Raj, **Uma Addepally**, Anuradha Katragadda, Qurratulain Hasan, Role of TNF  $\alpha$  in the etiopathogenesis of PCOS: a clinical, biochemical and molecular genetic study. *Molecular Cytogenetics*, 2014: 7(Suppl 1):P94 (**Impact factor 2.36**). DOI:10.1186/1755-8166-7-S1-P94
36. Ch.Suvarna Lakshmi, A.Uma, M.Lakshminarasu, B.Venkanna, Evaluation of Antimicrobial property of *Thespesia Populnea* root extracts against Genitourinary Tract Infectious pathogens. *International Journal for Pharmaceutical Research Scholars (IJPRS)*, 2014, 3(2), 505-519. ISSN No: 2277 – 7873.
37. Nadella Kumudini, Addepally Uma, Shaik Mohammad Naushad, Rukmini Mridula, Rupam Borgohain and Vijay Kumar Kutala, Association of seven functional polymorphisms of one-carbon metabolic pathway with total plasma homocysteine levels and susceptibility to Parkinson's disease among South Indians. *Neuroscience Letters*, 2014, 568, 1-5. ISSN: 0304-3940
38. Ch.Suvarna Lakshmi, A.Uma, R.S.Prakasham, L Jayalaxmi and N.Chandrasekhar, Phytochemical analysis and antimicrobial potential of *Abutilon indicum* stem extracts against GUTI pathogens. *Current Trends in Biotechnology and Pharmacy*, 2014, 8(2), 192-203. ISSN 0973-8916 (Print), 2230-7303 (Online)
39. Ramu Surakanti, Sumalatha Sanivarapu, Chiranjeevi Thulluri, Pravin S Iyer, Raghuram S Tangirala, Rambabu Gundla, Uma Addepally, YLN Murthy, Lakshmi Velide, Subhabrata Sen (2014). Corrigendum: Synthesis of Privileged Scaffolds by Using Diversity-Oriented Synthesis. *Chemistry—An Asian Journal*, 9(7), 1706-1706. DOI: 10.1002/asia.201201203
40. Reddy Shetty Prakasham, Darmarapu Nagaiah, Kanaganahalli S Vinutha, Addepally Uma, Thulluri Chiranjeevi, Akula V Umakanth, Pinnamaneni Srinivasa Rao & Ning Yan (2014). Sorghum biomass: A novel renewable carbon source for industrial bioproducts. *Biofuels*, 5(2), 159-174. ISSN:1759-7269.

## **2015**

41. Sujatha Thathapudi, Jayashankar Erukkambattu, Qurratulain Hasan, Uma Addepally, Vijayalakshmi Kodati, Association of calpain 10 gene UCSNP-43 polymorphism (rs3792267) with polycystic ovarian syndrome, **International Journal of Reproduction, Contraception, Obstetrics and Gynecology**, 2015, 4(4), 1185-1190. pISSN 2320-1770 | eISSN 2320-1789
42. Yedluri Rupasree, Shaik Mohammad Naushad, Liza Rajasekhar, Addepally Uma, Vijay Kumar Kutala, Association of estrogen receptor 1 (ESR1) haplotypes with risk for systemic lupus erythematosus among South Indians. *Indian Journal of Experimental Biology*, 2015, 53, 714-718.

43. Sujatha Thathapudi, Vijayalakshmi Kodati, Jayashankar Erukkambattu, Uma Addepally, Hasan Qurratulain (2015). Association of luteinizing hormone chorionic gonadotropin receptor gene polymorphism (rs2293275) with polycystic ovarian syndrome. *Genetic testing and molecular biomarkers*, 19(3), 128-132 DOI: 10.1089/gtmb.2014.0249
44. Chandramohan Bathula, Rajanikanth Mamidala, Chiranjeevi Thulluri, Rahul Agarwal, Kunal Kumar Jha, Parthapratim Munshi, **Uma Addepally**, Ashutosh Singh, M. Thirumalachary, Subhabrata Sen, Substituted furopyridinediones as novel inhibitors of  $\alpha$ -glucosidase, *RSC Advances*, 2015, 5(110), 90374-9038. DOI: 10.1039/C5RA19255B.
45. Santanu Hati, Sanjay M. Madurkar, Chandramohan Bathula, Chiranjeevi Thulluri, Rahul Agarwal, Faiza Amber Siddiqui, Poonam Dangi, **Uma Addepally**, Ashutosh Singh, Shailja Singh, Subhabrata Sen (2015). *Design, synthesis and biological evaluation of small molecules as potent  $\alpha$ -glycosidase inhibitors*. **European journal of medicinal chemistry (EJMC)**, **2015**, **100: 188-196**, doi:10.1016/j.ejmech.2015.04.059. ISSN: 0223-5234
46. Venkateshwarlu Gurram, Ramesh Garlapati, Chiranjeevi Thulluri, Nagaraju Madala, Kumara Swamy Kasani, Pavan Kumar Machiraju, Raju Doddapalla, Uma Addepally, Rambabu Gundla, Balam Patro, Narender Pottabathini. Design, synthesis and biological evaluation of quinazoline derivatives as  $\alpha$ -glucosidase inhibitors. *Medicinal Chemistry Research*, 2015, 24(5), 2227–2237, DOI 10.1007/s00044-014-1293-5.
47. **Uma Addepally** and Chiranjeevi Thulluri (2015). Recent progress in production of fuel range liquid hydrocarbons from biomass-derived furanics via strategic catalytic routes. *Fuel*, 2015, 159, 935-942. ISSN: 0016-2361
48. Addepalli Uma, Addepally, Pavani, Shaik Mohammad Naushad, Balraj Alex Stanley, Renganathan Gnanambal Kamakshi, Krishnan Abinaya, Malempati Amaresh Rao, Vijay Kumar Kutala (2015). Mechanistic insights into the effect of CYP2C9\* 2 and CYP2C9\* 3 variants on the 7-hydroxylation of warfarin. *Pharmacogenomics*, 16(4), 393-400. ISSN: 1462-2416.
49. Yumnam Priyadarshini Devi, Addepally Uma, Mangamoori Lakshmi Narasu, Chepuri Kalyani (2015). A comparative study of the effect of gallic acid on cancer cells and normal cells. *Research Journal of Pharmaceutical Biological and Chemical Sciences*, 6(4), 460-464. ISSN: 0975-8585.
50. Kiran Kumar Sindhu, Umakanta Swaina and Uma Addepally (2015). Amalakirasayana feeding declines the DNA Damage in wistar rat Cerebellum, Liver and Testis, through age. *Current Trends in Biotechnology & Pharmacy*, 9(4), 328-333. ISSN 0973-8916 (Print), 2230-7303 (Online)
51. Sheik Aliya, Podendla Chaithanya, Adepelly Uma, Yalavarthy Prameela Devi (2015). Evaluation of Anthelmintic Activity of Methanolic Extracts of Five Medicinal Plants. *International Journal of Innovative Research in Science, Engineering and Technology*, 4(12), 11950-11954. ISSN(Online): 2319-8753, ISSN (Print): 2347-6710
52. D.Raveendranath, K Sri Rama Murthy, A Harinatha Reddy, A Uma, B Vijayalakshmi and B Ramesh(2015). Validation of multi residue method with the mix of multi class pesticides in bitter gourd by gas chromatography coupled with triple quadrupole mass spectrometry, *Asian journal of chemistry*, 27(8).

## 2016

53. A.Basava Punna Rao, A.Uma, T.Chiranjeevi, M.S.Bethu, B.Yaswanth, J.Venkateswara Rao, Krishna Mohan poluri, Mohan Rao kollipara (2016). Synthesis, structural and invitro functional characterization of arene ruthenium complexes with 1,3,5-tris(di-2-pyridylaminomethyl)benzene ligand. **Elsevier Inorganica Chimica Acta**, **453**, 284-291. DOI:10.1016/j.ica.2016.08.031, ISSN:0020-1693
54. Babyrani Goluguri, Chiranjeevi Thulluri, **Uma Addepally**, Prakasham Reddy Shetty (2016). Novel alkali-thermostable xylanase from *Thielaviopsis basicola*(MTCC 1467): Purification and kinetic characterization. *International Journal of Biological macromolecules*, **82**, 823-829. ISSN:0141-8130
55. A.Basava Punna Rao, Narasinga Rao palepu, Debojit Kumar Deb, **Uma A**, Chiranjeevi T, Biplab Sarkar, Werner Kaminsky, Kollipara Mohan Rao. Synthesis, structural, DFT studies and antibacterial evaluation of Cp\*rhodium and Cp\*iridium complexes using hydrazide based dipyridyl ketone ligand. *Inorganica Chimica Acta*, **2016**, 443: 126–135. ISSN:0020-1693
56. Basava punna Rao A, Uma A, Chiranjeevi.T, M.S.Bethu, Venkatewara Rao J, Debojit Kumar Deb, Biplab Sarkar, Werner Kaminsky, Mohan Rao kollipara, The in vitro antitumor activity of oligonuclear polypyridyl rhodium and iridium complexes against cancer celles and human pathogens, **Journal of Organometallic Chemistry**, 2016, 824, 131-139. ISSN:0022-328X
57. Sujatha Thathapudi, Jayashankar Erukkambattu, Uma Addepally, Vijayalakshmi Kodati, Qurratulain Hasan (2016). Association of insulin-like growth factor 2 Apa1 A820G gene (rs680) polymorphism with polycystic ovarian syndrome,**International Journal of Reproduction, Contraception, Obstetrics and Gynaecology**, 5(8), 2618-2623. pISSN 2320-1770 | eISSN 2320-1789
58. T. Chiranjeevi, P. Srinivas Rao, R.S. Prakasham, **A. Uma**. Synthesis of lignin-based nanomaterials/nanocomposites: Recent trends and future perspectives. *Industrial Biotechnology journal*, 2016, 12(03), 153-160. DOI:10.1089/ind.2015.0022, ISSN:1550-9087
59. P.Aruna, Dr.A.Uma and Dr M.Raghunath. Telomere length as a biomarker of ageing and associated metabolic disorders: A Review. (2016) *HFSP Journal*, 10(2), HFSP publishing. ISSN:1955-2068
60. Aliya Sheik, Yalavarthy Prameela Devi, Adepelly Uma (2016). Plants as Potential Resources of Anticancer Drugs. *Current Trends in Biotechnology & Pharmacy*, 10(1), 92-107. ISSN 0973-8916 (Print), 2230-7303 (Online).
61. Sheik Aliya, Yalavarthy Prameela Devi, Adepelly Uma. Antibacterial activity of methanolic extract of *Cissus quadrangularis*. **Indian Journal of Applied and pure biology**, **31 (1), 35-38(2016)**. DOI:10.4103/0250-474X.25727. ISSN: 0250-474X
62. Baby Rani Goluguri, Thulluri Chiranjeevi, Addepally Uma, Prakasham Reddy Shetty, Novel alkali-thermostable xylanase from *Thielaviopsis basicola* (MTCC 1467): Purification and kinetic characterization, **International Journal of Biological Macromolecules**, **2016**, **82**, 823-829. ISSN: 0141-8130

63. K Ravichandra, VVN Yaswanth, B Nikhila, Jamal Ahmad, P Srinivasa Rao, A Uma, V Ravindrababu, RS Prakasham (2016). Xylanase Production by Isolated Fungal Strain, *Aspergillus fumigatus* RSP-8 (MTCC 12039): Impact of Agro-industrial Material as Substrate. *Sugar Tech*, 18(1), 29-38. DOI 10.1007/s12355-014-0357-7, ISSN: 0972-1525(print), 0974-0740(online)
64. D Nagaiah, T Chiranjeevi, P Srinivas Rao, A Uma, RS Prakasham (2016), "Fermentation of Pretreated High-Biomass Sorghum Hydrolysates to Biohydrogen by Mixed Consortia" ***Sugar Tech*** 18 (3), 266-272. DOI:10.1007/s12355-015-0393-y. ISSN: 0972-1525(print), 0974-0740(online)
65. Uma Addepally, Chiranjeevi Thulluri, Pranit Mallela (2016). High Altitude Hypobaric Hypoxia: Paradoxical Effects on Dna Damage and Metabolic Performance. *Everymans Science Journal*, Publisher: Indian Science Congress Association, 51(3), 148-150. ISSN: 0531-495X
66. Thathapudi Sujatha, Erukkambattu Jayashankar, Uma Addepally, Kodati Vijayalakshmi, Qurratulain Annie Hasan (2016), Association of follicle-stimulating hormone receptor gene ser680 asn (rs6166) polymorphism with polycystic ovarian syndrome, ***International Journal of Reproduction, Contraception, Obstetrics and Gynecology***, 5(9), 3126-3132. pISSN 2320-1770 | eISSN 2320-1789

## 2017

67. Venkanna banothu, **Uma adepally**, Jayalakshmi lingam (2017). In vitro total phenolics, flavonoids contents, antioxidant and antimicrobial activities of various solvent extracts from the medicinal plant *Physalis minima* linn. *International Journal of Pharmacy and Pharmaceutical Sciences*, 9(3), 192-198. ISSN- 0975-1491
68. Venkanna Banothu, Chandrasekharnath Neelagiri, **Uma Adepally**, Jayalakshmi Lingam & Kesavaharshini Bommareddy (2017), Phytochemical screening and evaluation of in vitro antioxidant and antimicrobial activities of the indigenous medicinal plant *Albizia odoratissima*, ***Pharmaceutical Biology***, 55(1), 1155-1161. ISSN: 1388-0209 (Print) 1744-5116 (Online)
69. Aruna Potukuchi, Uma addepally and Raghunath manchala (2017). Increased Macromolecular Damage Underlies the Decreased Longevity of WnIn/Gr-Ob Rats Fed High Sucrose Diet. ***Journal of Nutritional Health & Food Engineering*** 6 (1), 1-4. ISSN:2373.4310.
70. Aruna Potukuchi, Uma Addepally, Malathi Upadrashta, Balakrishna Nagalla and Raghunath Manchala (2017). High sucrose diet feeding aggravates age related changes in oxidative stress and antioxidant status of WNIN/Gr-Ob obese rats. ***International Journal of Medical and Health Sciences***, 6(3), 144-150. ISSN:2277-4505 (IF-3.51)
71. Aruna Potukuchi, Uma Addepally, Kirankumar Sindhu & Raghunath Manchala (2017). Increased total DNA damage and oxidative stress in brain are associated with decreased longevity in high sucrose diet fed WNIN/Gr-Ob obese rats. ***Nutritional Neuroscience***, 1-9. ISSN: 1028-415X (Print) 1476-8305 (Online) (IF-3.765)
72. Suresh poudapally, Venkateshwarlu gurram, Ramesh Garlapati, Chiranjeevi Tulluri, Uma Addepally, K.Viday, Somesh Sharma, Subhabrata Sen, Narender Pottabathini (2017), Cu-free sonogashira type cross-coupling of 6-Halo-2-cyclopropyl-3-(pyridyl-3-ylmethyl) Quinazolin-4(3H)-ones as potential antimicrobial agents. *Journal of heterocyclic chemistry*, 2017, 54(4), 2272-2286. DOI: 10.1002/jhet.2815. ISSN: 0022-152X(print), 1943-5193(online) (IF-1.241)

73. Tania Luthra, Rahul Agarwal, Uma Adepally, Mamidala, Estari, Subhabrata Sen. A novel library of  $\alpha$ -arylketones as potential inhibitors of  $\alpha$ -glucosidase: Their design, synthesis, in vitro and in vivo studies, *Scientific Reports*, **2017**, 7, 13246. DOI:10.1038/s41598-017-13798-y. ISSN: 2045-2322 (IF-4.847)
74. Mounika N, Muralidhara Rao D, Uma A, Sandhya Vand Ali SkZ. Simple and Effective Method for Development of Longer Shelf Life Liquid Formulation with Azospirillum brasilense strain Asp-7, *Asian Journal Advance Basic Science* 2017, 5(2), 127-135. ISSN (Print): 2454 – 7492, ISSN (Online): 2347 – 4114 (IF-0.454)

## **2018**

75. Mounika N, Muralidhara Rao D, Uma A, Sandhya V, SkZ Ali. Drought tolerant Azotobacter strain AZT-7 effect on growth and development of Okra seedlings under drought stress. *International Journal of Current Advanced Research*, 2018, 7(1C), 8920-8926. ISSN: O: 2319-6475, ISSN: P: 2319-6505, IMPACT FACTOR: SJIF: 5.995
76. Aruna Potukuchi, Uma Addepally, Chiranjeevi Potu, Malathi Upadrasta, Surekha Mullapudi, Suresh Pothani & Raghunath Manchala, High sucrose diet induced diabetes in WNIN/Gr-Ob obese rats: Biochemical and histological changes. *Indian Journal of Experimental Biology*, Vol. 56, March 2018, pp. 149-157. ISSN: 0975-1009(online) 0019-5189(print). (IF-1.475)
77. Thulluri Chiranjeevi, Anu Jose Mattam, Kusum K Vishwakarma, Uma Addepally, VC Rao Peddy, Sriganesh Gandham and Harshad Ravindra Velankar, Assisted single step acid pretreatment (ASAP) process for enhanced delignification of rice straw for bioethanol production; *ACS Sustainable Chemistry & Engineering*, 2018, 6(7), 8762-8774, ISSN: 2168-048, Impact Factor: 6.14
78. Tania Luthra, K.Naga Lalitha, A.Uma, Subhabrata Sen, Design, synthesis and in vitro study of densely functionalized oxindoles as potent  $\alpha$ -glucosidase inhibitors; *Bioorganic & Medicinal Chemistry*, 2018. doi: 10.1016/j.bmc.2018.08.022 (IF-2.881)
79. Geetha Chukka, Kesavulu M. Muppuru, Venkanna Banothu, Reddy S. Battu, Uma Addepally, Syam P. Gandavaram, Naga R. Chamarthi and Rao V.B. Mandava, Microwave-assisted one-pot synthesis of new  $\alpha$ -aminophosphonates using ZnBr<sub>2</sub>-SiO<sub>2</sub> as a catalyst under solvent-free conditions and their anticancer activity; *Chemistry Select*, 2018, 3, 1-8. (IF -1.716)
80. Ashok Reddy Ankireddy, Rambabu Gundla, Tuniki Balaraju, Venkanna Banothu, Krishna Prasad Gundla, Uma Addepally, Jithendra Chimakurthy; Quinazolin derivatives as emerging alpha-glucosidase inhibitors; 2018; *European Journal of Chemistry* 9 (4) (2018) 322-330

## **2019**

81. Lathewdeipor Shadap, Siewdorlang Diamai, Venkanna Banothu, D.P.S. Negi, Uma Adepally, Werner Kaminsky, Mohan Rao Kollipara, Half sandwich platinum group metal complexes of thiourea derivative ligands with benzothiazole moiety possessing anti-bacterial activity and colorimetric sensing: synthesis and characterization; *Journal of Organometallic Chemistry*, 2019, 884, 44-54. (IF-2.1732)
82. Agreeda Lapasam, Venkanna Banothu, Uma Addepally, Mohan Rao Kollipara, Synthesis, structural and antimicrobial studies of half-sandwich ruthenium, rhodium and iridium

complexes containing nitrogen donor Schiff-base ligands; Journal of Molecular Structure, 1191,(2019), 314-322. (IF-2.011)

83. Uma Addepally, Vani Gandham, Kiran Kumari Palety and Yerra Kanakaraju, Lignin-Based Carbon Nanomaterials – The Future Scope (2019), Materials Performance and Characterization, doi:10.1520/MPC20180153. (IF-0.67)
84. K. Naga Lalitha , G. Krishna Mohan and A. Uma, Surface modification and non-covalent functionalization of single- walled carbon nanotubes and their characterization; International Journal of Pharmaceutical Sciences and Research, 2019; Vol. 10(8): 3816-3824. (IF- 1.81)
85. Lathewdeipor Shadap, Venkanna Banothu, Uma Adepally, Sanjay Adhikari, Mohan Rao Kollipara; Variable structural bonding modes and antibacterial studies of thio semi carbazone ligands of ruthenium, rhodium, and iridium metal complexes, 2019, Journal of Coordination Chemistry, doi: 10.1080/00958972.2019.1711070.

## **2020**

86. Subramaniam Gopalakrishnan, Vadlamudi Srinivas, Ashok Kumar, Akula V. Umakanth, Uma Addepally, Pinnamaneni Srinivasa Rao, Composting of Sweet Sorghum Bagasse and its Impact on Plant Growth Promotion; 2020, Sugar Tech (Jan-Feb 2020) 22(1):143–156.
87. Sumalatha katta, Ashwini talakayala, Malireddy k reddy, Uma addepally, Mallikarjuna garladinne; Development of transgenic cotton (Narasimha) using triple gene Cry2Ab-Cry1F-Cry1Ac construct conferring resistance to lepidopteran pest; 2020 J Biosci (2020) 45:31
88. Tania Luthra, Venkanna Banothu, Uma Adepally, Krishna Kumar, Swathi M, Saikat Chakrabarti, Srinivas R. Maddi d, Subhabrata Sen; Discovery of novel pyrido-pyrrolidine hybrid compounds as alphasglucosidase inhibitors and alternative agent for control of type 1 Diabetes; 2020, European Journal of Medicinal Chemistry 188 (2020) 112034
89. Yerra Kanakaraju, Addepally Uma, Vani Gandham, Kiran Kumari Palety, S. Sridhar, A. V. Umakanth; Evaluation of ethanol fermentation efficiency of sweet sorghum syrups produced by integrated dual-membrane system; 2020, Bioprocess and Biosystems Engineering, DOI : 10.1007/s00449-020-02313-9

## **Book chapters:**

90. **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.
91. 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: A multi-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.
92. Chiranjeevi Thulluri, **Uma Addepally** and Baby Rani Goluguri. Production of Holocellulolytic enzymes by *Cladosporium cladosporioides* under submerged and solid state conditions using vegetable waste as carbon source. Book: Chemical and Bioprocess Engineering Trends and



Developments (2015). ISBN: 9781771880770 Publisher: CRC Press Taylor & Francis Group, Apple academic press.

93. N.Chari, Sesa Srinivas Vutukuru, R.Saicharan, **A.Uma**. Chitinous membranes and analogous material. Book: Bio-Physics of Flight. Publisher: NDRF: The Institution of Engineers (India).
94. N.Chari, Sesa Srinivas Vutukuru, R.Saicharan, **A.Uma**. Flight Morphology and Flight Muscles Book: Bio-Physics of Flight. Publisher: NDRF : The Institution of Engineers (India).
95. Uma Addepally, Chiranjeevu Thulluri, Vani Gandham, Kiran Kumari Palety, Kanakaraju Yerra, "Role of White Biotechnology in 2G Biofuels: Biocatalytic Process Development for the Hydrolysis of Lignocellulosic Biomass" Horizons in Bioprocess Engineering, Springer, Cham, 197-210.

### **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 1<sup>st</sup>, 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 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, 2010.
3. R.S. Prakasham, **A. Uma**, G.Baby Rani, K.Radhika,T.Chiranjeevi. Optimization of Pretreatment methods for agri-industrial 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, 24-25<sup>th</sup>, 2012.
5. Sujatha T, Kodati V, JayaShankar E, Ahuja YR, **Uma A**,Anuradha K, Q Hasan (2013). Anthropometric and Biochemical Characteristics of PCOS Patients in South Indian Women. ISHG, International symposium on developmental and complex disorders & 38<sup>th</sup> 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 10-11<sup>th</sup> Nov, **2014**.
7. Ch. Suvarna Lakshmi Sheik Aliya, Adepelly Uma\*,Yalavarthy Prameela Devi, Venkanna Banothu, Evaluation of antibacterial, anthelmintic and cytotoxic activity of medicinal plant Stevia rebaudiana Bertoni, 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 14<sup>th</sup>- 15<sup>th</sup>October, 2016.
10. Saba K, Potukuchi A, Addepally U., Raghunath M. and Bahadur A. Obesity alters neurotransmitter cycling fluxes across the brain in Wnln/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, **Addepally Uma**, 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 14<sup>th</sup> - 15<sup>th</sup> 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, Vikky Rajulapati, Jayalakshimi lingam Oral presentation on "Screening of biochemical tests and crude extracts of Albizia odoratissima leaves for antibacterial activity" International conference on biotechnology & Bioengineering 23 rd -s25 th March 2017
14. Kirankumari 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. Kirankumari Palety, Umakanth A.v, T. Bala Narsaiah, Uma Addepally,Venkanna Bonthu Oral presentation on "**Comparative evaluation of Antioxidants of grains from sorghum varieties with fresh fruits**" International conference on biotechnology &Bioengineering 23<sup>rd</sup> -25<sup>th</sup> March 2017 ISBN 978-93-85518-10-2.
16. Vani Gandham, T. Bala Narsaiah, 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, Muralidhara Rao.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 13-14<sup>th</sup>, 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 18<sup>th</sup> – 20<sup>th</sup> July 2019.

### **PATENTS GRANTED /FILED**

1. “Design of Effective dosage of Holocellulolytic enzymes for the hydrolysis of pretreated biomass to fermentable sugars and their fermentation to ethanol”. (Filed, File no. 5550/CHE/2013).
2. “Sequential fractionation of Rice straw into hemicellulose, lignin, silica and cellulose, and an efficient saccharification of cellulose for fermentable sugar (Glucose) production”. (Applied for filing 2014).
3. “An efficient conversion of cellulose and hemicelluloses fraction into furan-based platform chemical feed stack” (Applied for filing 2014)
4. “Preparation of eco- benign particle wood adhesive using tailored lignin prepared from lignin rich sources” (Applied for filing 2014).
5. “Extraction of lignin from fresh manure of herbivorous animals” (Applied for filing 2017).