

PUBLICATIONS

Publications of Books (Authored/Edited)

1. **G. Baskar**, K. Sathish Kumar and K. Tamilarasan (eds), **Frontiers in Enzyme Inhibition: Vol. 1 - Enzyme Inhibition - Environmental and Biomedical Applications**, Published by Bentham Science Publishers Pte. Ltd., Singapore. 2020. DOI: [10.2174/97898114608211200101](https://doi.org/10.2174/97898114608211200101). eISBN: 978-981-14-6082-1. ISBN: 978-981-14-6080-7.
2. R. Praveen Kumar Edgard Gnansounou Jegannathan Kenthorai Raman, **Gurunathan Baskar** (eds), **Refining Biomass Residues for Sustainable Energy and Bioproducts: Technology, Advances, Life Cycle Assessment and Economics**, **Published by Academic Press by Elsevier Science Publishing Co Inc.** 2020. <https://doi.org/10.1016/C2018-0-05005-7>. ISBN 9780128189962.
3. Sunita J. Varjani, Avinash Kumar Agarwal, Edgard Gnansounou, **Baskar Gurunathan** (eds), **Bioremediation: Applications for Environmental Protection and Management. Energy, Environment, and Sustainability**, published by Springer Nature Pte Ltd., Singapore. 2018. <https://doi.org/10.1007/978-981-10-7485-1>. ISBN: 978-981-10-7484-4(Print)/978-981-10-7485-1(Online).
4. Sunita J. Varjani, Edgard Gnansounou, **Baskar Gurunathan**, Deepak Pant, Zainul Akmar Zakaria (eds), **Waste Bioremediation. Energy, Environment, and Sustainability**, published by Springer Nature Pte Ltd., Singapore. 2018. DOI: <https://doi.org/10.1007/978-981-10-7413-4>. ISBN: 978-981-10-7412-7(Print)/978-981-10-7413-4 (Online).

Publications as Book Chapter

1. E. Raja Sathendra, **G. Baskar** and R. Praveen Kumar, **Product Inhibition in Bioethanol Fermentation: An Overview**, in **Frontiers in Enzyme Inhibition: Vol. 1 - Enzyme Inhibition - Environmental and Biomedical Applications**, edited by **G. Baskar**, K. Sathish Kumar and K. Tamilarasan, Published by Bentham Science Publishers Pte. Ltd., Singapore. 2020. DOI: [10.2174/97898114608211200101](https://doi.org/10.2174/97898114608211200101). eISBN: 978-981-14-6082-1. ISBN: 978-981-14-6080-7. pp. 122-147.
2. Elsa Cherian and **G Baskar**, **Enzyme Biosensors Based on Enzyme Inhibition for Pesticide and Heavy Metal Detection**, in **Frontiers in Enzyme Inhibition: Vol. 1 - Enzyme Inhibition - Environmental and Biomedical Applications**, edited by **G. Baskar**, K. Sathish Kumar and K. Tamilarasan, Published by Bentham Science Publishers Pte. Ltd., Singapore. 2020. DOI: [10.2174/97898114608211200101](https://doi.org/10.2174/97898114608211200101). eISBN: 978-981-14-6082-1. ISBN: 978-981-14-6080-7. pp. 59-72.
3. **G. Baskar**, R. Aiswarya, K. Sathish Kumar and K. Tamilarasan, **Introduction to Enzyme Inhibition – Environmental and Biomedical Applications**, in **Frontiers in Enzyme Inhibition: Vol. 1 - Enzyme Inhibition - Environmental and Biomedical Applications**, edited by **G. Baskar**, K. Sathish Kumar and K. Tamilarasan, Published by Bentham Science Publishers Pte. Ltd., Singapore. 2020. DOI: [10.2174/97898114608211200101](https://doi.org/10.2174/97898114608211200101). eISBN: 978-981-14-6082-1. ISBN: 978-981-14-6080-7. pp. 1-4.

4. **Gurunathan Baskar**, R. Aiswarya, G. Kalavathy, Ashok Pandey, Edgard Gnansounou, Jegannathan Kenthorai Raman, R. Praveen Kumar, A Biorefinery approach towards development of renewable platform chemicals from sustainable biomass, in “Refining Biomass Residues for Sustainable Energy and Bioproducts” Edited by R. Praveen Kumar, Edgard Gnansounou, Jegannathan Kenthorai Raman, Gurunathan Baskar, **Published by Academic Press by Elsevier Science Publishing Co Inc. 2020.** <https://doi.org/10.1016/C2018-0-05005-7>
5. Elsa Cherian, **G. Baskar**, Immobilized Biocatalysts in Bioethanol Production: Scale-up Opportunities for Commercialization, in “Horizons in Bioprocess Engineering” Edited by Dr. Ravindra Pogaku, published by **Springer Nature, Switzerland, 2019.** <https://doi.org/10.1007/978-3-030-29069-6>. ISBN: 978-3-030-29068-9
6. R. Aiswarya, **G. Baskar**, S. Renganathan, Applications of Asparaginase in Food Processing, in “Green Bio-Processes: Industrial Enzymes for Food Applications” published by **Springer Nature Pte Ltd., Singapore. 2019.** Pages 83-98. https://doi.org/10.1007/978-981-13-3263-0_6. ISBN 978-981-13-3263-0.
7. G. Baskar, G. Kalavathy, R. Aiswarya, I. Abarnaebenezer Selvakumari, Advances in Biooil Extraction from Non-edible Oil Seeds and Algal Biomass, in : **Eco-fuel for Sustainable Environment**” published by Elsevier, 2019. Pages 187-210. <https://doi.org/10.1016/C2017-0-04211-8>. ISBN: 9780081027288
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11. Senthil Kumar P., Yaashikaa P.R., **Baskar G.**, Chapter 17: Biomining of Natural Resources, Varjani S., Gnansounou E., Gurunathan B., Pant D., Zakaria Z. (eds), Waste Bioremediation. Energy, Environment, and Sustainability. Springer Nature Pte Ltd., Singapore. 2018. Pages 312-342. DOI: https://doi.org/10.1007/978-981-10-7413-4_17.
12. Sunita J. Varjani, Avinash Kumar Agarwal, Edgard Gnansounou, **Baskar Gurunathan**, Chapter 1: “Introduction to Environmental Protection and Management”, Sunita J. Varjani, Avinash Kumar Agarwal, Edgard Gnansounou, **Baskar Gurunathan** (eds), Bioremediation: Applications for Environmental Protection and Management. Energy, Environment, and Sustainability, edited by Springer Nature Pte Ltd., Singapore. 2018. Pages 1-6. https://doi.org/10.1007/978-981-10-7485-1_1.

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15. N. Manoj Kumar, C. Muthukumaran, G. Sharmila, **G. Baskar**. Chapter 4: “Genetically Modified Organisms and its impact on the enhancement of Bioremediation”, Sunita J. Varjani, Avinash Kumar Agarwal, Edgard Gnansounou, **Baskar Gurunathan** (eds), Bioremediation: Applications for Environmental Protection and Management. Energy, Environment, and Sustainability, edited by Springer Nature Pte Ltd., Singapore. 2018. Pages 53-76. https://doi.org/10.1007/978-981-10-7485-1_4
16. **G. Baskar**, I. Aberna Ebenezer Selvakumari, R. Aiswarya, S. Renganathan. Chapter 16: “Bioremediation of Industrial and Municipal waste water using Microalgae”, Sunita J. Varjani, Avinash Kumar Agarwal, Edgard Gnansounou, **Baskar Gurunathan** (eds), Bioremediation: Applications for Environmental Protection and Management. Energy, Environment, and Sustainability, edited by Springer Nature Pte Ltd., Singapore. 2018. Pages 331-357. https://doi.org/10.1007/978-981-10-7485-1_16.
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18. **G. Baskar**, J. Chandhuru, K. Sheraz Fahad, A. S. Praveen, M. Chamundeeswari, Anticancer activity of therapeutic agents conjugated with metal nanoparticles, published as Chapter 6, Advances in Biotechnology by I. K. International Publishing House, New Delhi, November 2014, 107-114.

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1. J. Iyyappan, G. Baskar, B. Bharathiraja, *Bacillus megaterium* strain S321 16S ribosomal RNA gene, partial sequence. Accession No.: MG198674; Version No.: MG198674.1. 29th Nove 2017. <https://www.ncbi.nlm.nih.gov/nuccore/MG198674.1>

Publications in International Journals

1. R. Naveenkumar, **G. Baskar**, Process optimization, green chemistry balance and technoeconomic analysis of biodiesel production from castor oil using heterogeneous nanocatalyst, *Bioresource Technology*, 320 (2021), 124347. (IF-7.539). <https://doi.org/10.1016/j.biortech.2020.124347>
2. M.Vikneshan, R.Saravanakumar, S.Rajeshkumar, S.R.Samuel, M.Suganya, **G.Baskar**, Algal biomass as a source for novel oral nano-antimicrobial agent, *Saudi Journal of Biological Sciences*, Available online 19 August 2020. (IF-2.802). <https://doi.org/10.1016/j.sjbs.2020.08.022>
3. R. Naveenkumar, **G. Baskar**, Optimization and techno-economic analysis of biodiesel production from *Calophyllum inophyllum* oil using heterogeneous nanocatalyst, *Bioresource Technology*, 315 (2020) 123852. (IF-7.539). <https://doi.org/10.1016/j.biortech.2020.123852>
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7. J. Iyyappan, **G. Baskar**, B. Bharathiraja, M. Gopinath, Enhanced malic acid production using *Aspergillus niger* coupled with in situ product recovery, **Bioresource Technology**, Vol. 308 (2020) 123259. (IF-6.669). <https://doi.org/10.1016/j.biortech.2020.123259>
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13. S. Sivarathnakumar, J. Jayamuthunagai, **G. Baskar**, R. Praveenkumar, I. Aberna Ebenezer Selvakumari, B. Bharathiraja, Bioethanol production from woody stem *Prosopis juliflora* using thermotolerant yeast *Kluyveromyces marxianus* and its kinetics studies, *Bioresource Technology* Vol. 293 (2019) 122060. (IF-6.669). <https://doi.org/10.1016/j.biortech.2019.122060>
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Presentations in International Conferences

1. **G. Baskar**, K.S.T. Ramyaa, “Bioethanol production from elephant grass using *Trichoderma reesi* and *Kluyveromyces marxianus*” was presented in **International Conference on Frontiers in Industrial Biotechnology** organized by Department of Biotechnology, St. Joseph’s College of Engineering, Chennai and sponsored by All India Council for Technical Education, New Delhi during 27 – 29th July, 2020.
2. R. Janani, **G. Baskar**, K. Sivakumar, “Application of magnetic graphene oxide nanocomposites for heavy metal adsorption” was presented in **International Conference on Frontiers in Industrial Biotechnology** organized by Department of Biotechnology, St. Joseph’s College of Engineering, Chennai and sponsored by All India Council for Technical Education, New Delhi during 27 – 29th July, 2020.
3. Grace Lydia Phoebe M, KalavathyGengiah, **G. Baskar**, “Topical ointment formulation using polysaccharide's extract of macro algae for biological activity” was presented in

International Conference on Frontiers in Industrial Biotechnology organized by Department of Biotechnology, St. Joseph's College of Engineering, Chennai and sponsored by All India Council for Technical Education, New Delhi during 27 – 29th July, 2020.

4. B. Nataraj, Albert Einstein, **G. Baskar**, “Application of Machine Learning Approach for Designing the Affinity Improved Mutant Variant of the Anticancer Antibody-Drug Trastuzumab Towards its Antigen Her2” was presented in International Conference on Drug Discovery (ICDD) 2020 organized by Schrodinger, Inc and BITS-Hyderabad, India during 29th Feb - 2nd March 2020. Available at SSRN: <https://ssrn.com/abstract=3533618>
5. B. Ravindran, **G. Baskar**, Woo Jin Chung, and Soon Woong Chang, “Potential of Bamboo Biochar in Livestock Manure Composting: Effective Changes on Nutrient, Morphological and Greenhouse gas Emissions” was presented in International Conference on Frontiers in Sustainable Agriculture and Biological Sciences (FSABS - 2020) organized by Department of Botany, Periyar University, Salem, India during March 16 & 17, 2020.
6. R. Naveenkumar, **G. Baskar**, “Preparation, characterization and efficiency of heterogeneous nanocatalyst for biodiesel production from castor oil” was presented in **International Conference on Technological Advancements in Materials, Design, Manufacturing and Energy Sectors** Sponsored AICTE and organized by Department of Mechanical Engineering, St. Joseph's College of Engineering, Chennai - 600 119 during February 20 and 21, 2020.
7. **G. Baskar**, T. Nishanthini, A. Gurugulla Devi, “Manganese doped zinc oxide nanocatalyst for biodiesel production” was presented in **International Conference on Technological Advancements in Materials, Design, Manufacturing and Energy Sectors** Sponsored AICTE and organized by Department of Mechanical Engineering, St. Joseph's College of Engineering, Chennai - 600 119 during February 20 and 21, 2020.
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9. **G. Baskar**, K.S.T. Ramyaa, “Anticancer Activity of *Calotropis procera* Latex-Asparaginase Bioconjugate against Brain and Blood Cancer Cells” was presented in 16th Annual convention of BRSI and **The International Conference on New Horizons in Biotechnology, was held at CSIR-NIIST Trivandrum** during November 20-24, 2019.
10. J. Iyyappan, B. Bharathiraja, **G. Baskar**, “Enhanced production of malic acid using *Aspergillus niger* coupled with Ex situ product recovery” was presented in 16th Annual convention of BRSI and **The International Conference on New Horizons in Biotechnology, was held at CSIR-NIIST Trivandrum** during November 20-24, 2019.
11. G. Kalavathy, G. Baskar, Grace Lydia Phoebe, “Bioethanol Production from Residual Biomass of Marine Macro algae using Cellulase produced from *Trichoderma reesei*” was presented in 16th Annual convention of BRSI and **The International Conference on New Horizons in Biotechnology, was held at CSIR-NIIST Trivandrum** during November 20-24, 2019.
12. R. Naveenkumar, **G. Baskar**, “Green chemistry optimization of biodiesel production from *Calophyllum inophyllum* using statistical and artificial intelligence” was presented in 16th

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13. V. Priscilla Pushparani, **G. Baskar**, “Anti-urolithic effect of Citrate based Plant Extracts on invitro Calcium Oxalate Crystals” was presented in 16th Annual convention of BRSI and **The International Conference on New Horizons in Biotechnology, was held at CSIR-NIIST Trivandrum** during November 20-24, 2019.
14. R. Naveenkumar, **G. Baskar**, “Optimization and Techno-Economic Analysis of Biodiesel Production from Castor Oil using Zinc doped calcium oxide (Plaster of paris)” was presented in **The International Graduate Symposium on Industrial Biotechnology** organized by School of Biotechnology, **Jiangnan University, Wuxi, China** during 13th to 16th October 2019.
15. R. Naveenkumar, **G. Baskar**, “Optimization and Kinetic of Ultrasound-Assisted Oil Extraction from *Calophyllum inophyllum* Seed using Response Surface Methodology”, was presented in International Conference on Biomass, Fuels and Chemicals, organized by Department of Chemical Engineering, Annamalai Nagar-608002, India Department of Chemical Engineering, Annamalai Nagar-608002, India 12-13th September, 2019.
16. **G. Baskar**, N. Supria Sree, “Anticancer activity of gelatin-asparaginase nanobiocomposite against brain cancer cell lines”, was presented in International Conference on Biomass, Fuels and Chemicals, organized by Department of Chemical Engineering, Annamalai Nagar-608002, India Department of Chemical Engineering, Annamalai Nagar-608002, India 12-13th September, 2019.
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19. K. Chalapandian, S. Dharini, D. Divya, **G. Baskar**, “Minimization of cost and time in biodiesel production using in situ transesterification with *Madhuca longifolia*”, was presented in International Conference on Sustainable Technologies for Industrial Hazardous Waste Management and Bioenergy, organized by Department of Biotechnology, SRM Institute of Science and Technology, Kattankulathur-603203, Tamil Nadu, India during 7-9th August, 2019.
20. K. Chalapandian, R. Aishwarya, M. Sabarilakshmi, **G. Baskar**, “Comparison of CaO nanoparticles from *Acalypha indica* and CaO catalysts from hen egg shells in catalysing the biodiesel production” was presented in International Conference on Sustainable Development

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24. R. Naveenkumar, **G. Baskar**, “Production of biodiesel from castor oil using zinc doped calcium oxide nanocatalyst synthesized from waste plaster of paris” was presented in **International Conference on Mathematical Methods, Modeling and Simulation in Chemical Sciences, SSN College of Engineering, Chennai** during December 06-08, 2018.
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27. R. Gnanasekaran, Balaji Dhandapani, J. Iyyappan, **G. Baskar**, “Enhanced production of platform chemical - itaconic acid using mutated *Aspergillus niveus* MG183809 from glycerol medium” was presented in **International Conference on International Conference on Biotechnological Research and Innovations for Sustainable Development** organized by CSIR-IICT, Hyderabad and the Biotech Research Society, India during November 22–25, 2018.
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32. **G. Baskar**, S. Roselin Nivetha, N. Mohanapriya, R. Aiswarya, I. Abarnaebenezer Selvakumari ‘Ultrasonic assisted extraction of biooil from *Ricinus communis* seeds: Optimization using Response Surface Methodology and Artificial Neural Network’ was presented in **International Conference on “Emerging Trends in Biotechnology for Waste Conversion (ETBWC)” 2017**, organized by **CSIR-National Environmental Engineering Research Institute, Nagpur** and the Biotech Research Society, India, during October 8 – 10th, 2017.
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35. E. Raja Sathendra, **G. Baskar**, R. Praveen kumar, ‘Optimization and Production of Bioethanol from Lignocellulosic Banana Peduncle Waste using *Kluveromyces marxianus*’ was presented in **International Conference on “Emerging Trends in Biotechnology for Waste Conversion (ETBWC)” 2017**, organized by **CSIR-National Environmental Engineering Research Institute, Nagpur** and the Biotech Research Society, India, during October 8 – 10th, 2017.
36. R. Aiswarya, **G. Baskar**, **G** ‘Mitigation of acrylamide in heat processed carrot slices using chitosan immobilized asparaginase’ was presented in **International Conference on “Emerging Trends in Biotechnology for Waste Conversion (ETBWC)” 2017**, organized by **CSIR-National Environmental Engineering Research Institute, Nagpur** and the Biotech Research Society, India, during October 8 – 10th, 2017.

37. **G.Baskar**, R.Asiwarya, “Acrylamide mitigation in fried Kochchi kesel chips using free and immobilized fungal asparaginase” was presented in **7th International Forum on Industrial Bioprocesses** organized by **Jiangnan University, Wuxi, China** and **International Bioprocessing Association, France** during 21st to 24th May 2017.
38. S. Sivarathnakumar, **G. Baskar**, B. Bharathiraja, R. Praveen Kumar, S. Chozhavendhan, K.M. Vishnuvardhan, S. Surendar, “Prosopis juliflora bark - an alternate feedstock in the production of bioethanol using thermotolerant yeast *Kluyveromyces marxianus*” was presented in **International Conference on Sustainable Energy and Environmental Challenges**, organized by **Center of Innovative and Applied Bioprocessing, DBT-GOI, Mohali, Punjab**, during February 26-28, 2017.
39. G. Baskar, K. Lalitha, Garrick Bikkur George, M. Chamundeeswari, “Conjugation, Labeling and Characterization of Asparaginase bound Silver Nanoparticles for Anticancer Applications” was presented in **International Conference on Current Trends in Biotechnology** organized by School of Biotechnology, VIT, Vellore and the Biotech Research Society, India during December 8-10, 2016.
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41. S. Subashini, K. Sathishkumar, G. Baskar, “Physicochemical characteristics of calcium oxalate crystals isolated from *Spinacia oleracea*” was presented in **International Conference on Current Trends in Biotechnology** organized by School of Biotechnology, VIT, Vellore and the Biotech Research Society, India during December 8-10, 2016.
42. Arya Rajan, Elsa Cherian, G Baskar, “Immobilization of Cellulase onto $MnFe_2O_4$ and its Application Bioethanol Production”, was presented in **International Conference on Macromolecules: Synthesis, Morphology, Processing, Structure, Properties and Applications (ICM-2016)**, organized by Mahatma Gandhi University, Kottayam, Kerala during May 13-15, 2016
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49. M. Anil Kumar, S. Poonam, V. Vinoth Kumar, G. Baskar, M. Seenuvasan, S. Sivanesan, Mineralization of aromatic amines liberated during the oxido-reductive cleavage mediated detoxification of asulfonated textilecolorantusing acclimated cells of *Klebsiella pneumoniae* strain AHM, was presented in **International Conference on New Horizons in Biotechnology (NHBT-2015) and 11th Annual Convention**, organized by the **Biotech Research Society-India and CSIR-NIIST Trivandrum**, during 22-25th November 2015.
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BioIndia-2012 (ICBI), organized by Vivekanandha College of Engineering for Women, Tiruchengode, during 9th & 10th March 2012.

72. R. Chitra Devi, K. Prema, **G. Baskar**, “Isolation of fungal species and production of milk clotting enzyme”, was presented in **International Conference on BioIndia-2012 (ICBI)**, organized by Vivekanandha College of Engineering for Women, Tiruchengode, during 9th & 10th March 2012.
73. **G. Baskar**, J. Angeline Vidhula, S. Babitha Merlin and D.V. Sneha, “Statistical evaluation of media components for milk clotting enzyme production by *Aspergillus candidus* MTCC1989 in submerged fermentation”, was presented in **International Conference on Emerging Trends in Bioengineering (ICETIB 2011)**, organized by Department of Bio-engineering, Bharath University, Chennai, during 28th & 29th March 2011.
74. **G. Baskar**, C. Sriharini, R. Sripriya, and S. Renganathan, “Evolutionary computation for optimization of media components for enhanced production of fungal L-asparaginase by submerged fermentation”, was presented in **International Conference on Emerging Trends in Bioengineering (ICETIB 2011)**, organized by Department of Bio-engineering, Bharath University, Chennai, during 28th & 29th March 2011.
75. **G. Baskar**, V. Rajasekar and S. Renganathan, “Modeling and Optimization of L-asparaginase Production by *Enterobacter aerogenes* using Artificial Neural Network linked Genetic Algorithm” was presented in **International Conference on System Dynamics and Control (ICSDC)**, organized by Manipal Institute of Technology, Manipal, India during 19th -22nd August 2010.
76. **G. Baskar**, L. K. Sree Rajesh, Mohamed Adhil, G. Nimalan, S. Renganathan, “Sequential Optimization of Process variables for Ganoderic Acid Production by *Ganoderma lucidum* MTCC 1039 using Design of Experiment” was presented in **International Conference on Emerging Trends in Biotechnology (ETBT-2009)**, organized by Institute of Technology, Banaras Hindu University, Varanasi, India during 4th – 6th December, 2009.
77. C. Sriharini, S. K. Pavithra, R. Sripriya, **G. Baskar**, “Biosorption of Coomassie brilliant blue G250 dye from synthetic effluent from using *Pennisetum purpureum* biosorbent”, was presented in **International Conference on Emerging Trends in Biotechnology (ETBT-2009)**, organized by Institute of Technology, Banaras Hindu University, Varanasi, India during 4th – 6th December, 2009.
78. **G. Baskar**, Mohamed Adhil, G. Nimalan, S. Renganathan, “The effect of agitation rate, temperature, pH and inoculum size on L-asparaginase production by *Aspergillus terreus* 1782”, was presented in **International Conference on Emerging Trends in Biotechnology (ETBT-2009)**, organized by Institute of Technology, Banaras Hindu University, Varanasi, India during 4th – 6th December, 2009.
79. **G. Baskar**, J. Riswana Begum, C. Sriharini, and S. Renganathan, “Screening of *Aspergillus species* by Rapid plate assay and the Effect of substrate, additional nitrogen and L-asparagine on L-asparaginase Production”, was presented in **International Conference on Challenges in Biotechnology and Food technology (ICBF-2009)**, organized by Faculty of Technology, Annamalai University, Annamalainagar, India, during 26th – 28th October - 2009.

80. **G. Baskar**, C. Sriharini, R. Sripriya and S. Renganathan “Statistical Evaluation and Screening of Media components and Process Variables for L-asparaginase Production by *Aspergillus terreus* MTCC 1782 using Groundnut oil cake as Substrate”, was presented in **International Conference on Challenges in Biotechnology and Food technology (ICBF-2009)**, organized by Faculty of Technology, Annamalai University, Annamalainagar, India, during 26th – 28th October - 2009.
81. **G. Baskar**, L. K. Shree Rajesh, S. K. Pavithra, S. Aarathi and S. Renganathan, “Production of Ganoderic acid from Cottonseed oil cake by *Ganoderma lucidium* MTCC 1039: Statistical Screening of Process Variables”, was presented in **International Conference on Challenges in Biotechnology and Food technology (ICBF-2009)**, organized by Faculty of Technology, Annamalai University, Annamalainagar, India, during 26th – 28th October – 2009.
82. **G. Baskar**, P. Saranya, K. R. Preethy and S. Renganathan “Screening of Supplementary Nitrogen sources for L-asparaginase Production from Groundnut oil cake by *Aspergillus terreus* using Latin Square Design” was presented in **International Conference on Biotechnology**, organized by **Karunya University**, Coimbatore, India, during 11th and 12th December - 2008.
83. **G. Baskar**, V. Gayathri, S. K. Pavithra and S. Renganathan “Effect of Sodium nitrate and L-asparagine on L-asparaginase Production from Natural Substrates by *Aspergillus terreus* 1782” was presented in **International Congress on Bioprocesses in Food Industries**, organized by ICBF – BRSI at **Osmania University**, Hyderabad, India, during 06th-08th November - 2008.
84. **G. Baskar**, C. Sriharini, R. Sripriya and S. Renganathan “Statistical Screening of Supplementary Nitrogen Sources for L-asparaginase Production by *Aspergillus terreus* 1782 using Corn flour as Substrate” was presented in **International Congress on Bioprocesses in Food Industries**, organized by ICBF – BRSI at **Osmania University**, Hyderabad, India, during 06th-08th November - 2008.
85. C. Sriharini, R. Sripriya, M. Matheswaran and **G. Baskar** “Evaluation of Aeration Systems for Effluents of Different Organic Load” was presented in **International Congress on Bioprocesses in Food Industries**, organized by ICBF – BRSI at **Osmania University**, Hyderabad, India, during 06th-08th November - 2008.
86. S. Barath Kumar, R. Arul Luca Sunder Singh, **G. Baskar** and C. Muthukumaran “Optimization and Kinetics of Enzymatic Hydrolysis of *Manihot esculenta* (Cassava) Starch by α -amylase from *Aspergillus oryzae*” was presented in **International Conference on Applied Bioengineering**, organized by **Sathyabama University** and NIOT, Chennai, India, during 5th-7th December - 2007.
87. **G. Baskar**, V. Gayathri, R. Deepthi Johanna, T. Viruthagiri, “Screening and Evaluation of Nitrogen Sources for the Production of L-asparaginase by *Aspergillus terreus* using Latin-Square Design” was presented in **International Conference on Applied Bioengineering**, organized by **Sathyabama University** and NIOT, Chennai, India, during 5th-7th December - 2007.
88. **G. Baskar**, C. Muthukumaran, T. Viruthagiri, M. Gopinath, “Optimization of Media Components for L-Asparaginase Production by *Aspergillus terreus* using Response Surface Methodology” was presented in **International Conference on New Horizons in**

Biotechnology, organized by BRSI at NIST (Formerly **Regional Research Laboratory**) **Trivandrum**, Kerala, India, during 26th-29th November - 2007.

89. M. Gopinath, R. Dhanasekar, T. Viruthagiri and **G. Baskar**, “Continuous Production of g-decalactone by Immobilized *Sporidiobolus salmoicolor*” was presented in **International Conference on New Horizons in Biotechnology**, organized by BRSI at NIST (Formerly **Regional Research Laboratory**) **Trivandrum**, Kerala, India, during 26th-29th November - 2007.
90. N. J. Stephan Rajkumar, N. Gokul, S. Justin Packia Jacob and **G. Baskar**, “Optimization of Tyrosinase (polyphenol oxidase) from selected fungal strains” was presented in **International Conference on New Horizons in Biotechnology**, organized by BRSI at NIST (Formerly **Regional Research Laboratory**) **Trivandrum**, Kerala, India, during 26th-29th November - 2007.
91. **G. Baskar** and C. Muthukumaran, “Nanomedicine” in **International Conference on “Nanomaterials and Its Applications”** organized by **National Institute of Technology, Trichirapalli**, India, was held during 4th- 6th February - 2007.

Presentations in National Conferences/ Seminars

1. B. Ravindran, Woo Jin Chung, **G. Baskar**, and Soon Woong Chang, “Biochar efficiency on gaseous emissions, physico-chemical and microbial community during livestock manure in-vessel composting process” was presented in National Conference on Innovative and Integrated Approaches towards Pollution Abatement , organized by Department of Chemical Engineering, SRM Institute of Science and Technology, Chennai during March 12-13, 2020.
2. S. Jose Pandian, S. M. Raghul Reddy, R. Naveen kumar, B. Ravindran, **G. Baskar**, “Bioethanol production from municipal solid wastes using *Trichoderma reesei* and *Saccharomyces cerevisiae*” was presented in National Conference on Innovative and Integrated Approaches towards Pollution Abatement , organized by Department of Chemical Engineering, SRM Institute of Science and Technology, Chennai during March 12-13, 2020.
3. R. Naveen Kumar, Nivedha Murali Shankar, Nishitha Kannan, **G. Baskar**, “Biooil extraction from *Madhuca longifolia* for potential application in biodiesel production” was presented in National Conference on “Technological Innovation in Clean Energy Generation and Environmental Remediation”organized by Department of Chemical Engineering, Sri Venkateswara College of Engineering, Chennai during 4th October, 2019.
4. **G. Baskar**, K. Lalitha, “Anticancer activity of cerium oxide nanobiocomposite of L-asparaginase”, was presented in National Conference on Biochemical, Renewable Energy and Sustainable Technology, organized by Department of Biotechnology, Selvam College Technology, Namakkal – 637 003, Tamilnadu, India during 6-8th February 2019.

5. **G. Baskar**, R. Aiswarya, “Magnetic Nanobiocomposite of Lipase as Heterogeneous Catalyst for Biodiesel Production from Waste cooking oil”, was presented in National Conference on Biochemical, Renewable Energy and Sustainable Technology, organized by Department of Biotechnology, Selvam College Technology, Namakkal – 637 003, Tamilnadu, India during 6-8th February 2019.
6. A. Mahalakshmi, **G. Baskar**, “Biosynthesis and characterization of CdTe quantum dots using pomelo peel extract” was presented in National Conference on Biotechnology for Sustainable Development, organized by Department of Biotechnology, Arunai Engineering College, Tiruvannamalai on March 16 & 17, 2018.
7. A. Mahalakshmi, **G. Baskar**, ‘Cadmium Quantum Dots for Optoelectronic Applications’ was presented in National Conference on Advances in Functional Materials, organized by St. Joseph’s College of Engineering, Chennai on 5th August 2017.
8. **G. Baskar**, S. Roselin Nivetha, N. Mohanapriya, ‘Intensification of bio-oil extraction by ultrasound assisted method from different sources’, was presented in 6th National Conference on “Transfigures in Bioscience and Technology” organized by Madha Engineering College, Chennai on 10th March 2017
9. R. Aiswarya, **G. Baskar**, ‘Overview of formation, detection and mitigation of acrylamide in fried and baked starchy foods’ was presented in 6th National Conference on “Transfigures in Bioscience and Technology” organized by Madha Engineering College, Chennai on 10th March 2017
10. **G. Baskar**, R. Aiswarya, ‘A review on major concern in the formation of acrylamide in fried foods’, was presented in National Conference on "Green Chemical Process and Sustainable Technologies" organized by SSN College of Engineering, Chennai during 17 & 18th March 2017.
11. **G. Baskar**, R. Aiswarya, “Lipase Functionalized Magnetic Nanoparticles as Heterogeneous Catalyst for Transesterification of Waste Cooking Oil into Biodiesel” was presented in **Indian Chemical Engineering Congress 2016 (CHEMCON2016) and 69th Annual Session of Indian Institute of Chemical Engineers**, organized by IChE-Chennai Regional Centre in association with Anna University, IIT-M and CLRI during December 27-30, 2016.
12. **G. Baskar**, S. Subanjalin Joy, R. Aiswarya, “Pretreatment of Baked Cookies for Acrylamide Reduction using Fungal Asparaginase” was presented in **Indian Chemical Engineering Congress 2016 (CHEMCON2016) and 69th Annual Session of Indian Institute of Chemical Engineers**, organized by IChE-Chennai Regional Centre in association with Anna University, IIT-M and CLRI during December 27-30, 2016.
13. **G. Baskar**, K. Lalitha, Elsa Cherian, “Synthesis of Selenium Nanobiocomposite of Fungal L-Asparaginase for Anticancer Applications” was presented in **Indian Chemical Engineering Congress 2016 (CHEMCON2016) and 69th Annual Session of Indian Institute of Chemical Engineers**, organized by IChE-Chennai Regional Centre in association with Anna University, IIT-M and CLRI during December 27-30, 2016.
14. K. Sathya, R. Saravanathamizhan, **G. Baskar**, “*Coleus aromaticus* leaf extract mediated synthesis of iron oxide nanoparticle” was presented in **Indian Chemical Engineering Congress 2016 (CHEMCON2016) and 69th Annual Session of Indian Institute of Chemical**

Engineers, organized by IChE-Chennai Regional Centre in association with Anna University, IIT-M and CLRI during December 27-30, 2016.

15. **G. Baskar**, A. Gurugula Devi, T. Nishanthini, Biodiesel production from mahua oil using nanocatalyst, was presented in 8th **National Conference on Recent Advancements in Food Processing Technology**, organized by Pavendar Bharathidasan College of Engineering And Technology, Trichy on 1st April 2016 (**Won best paper award, 1st prize**) .
16. S.Soumya, G. Baskar, R. Aiswarya, Enzymatic pre-treatment for reduction acrylamide formation in baked cookies, was presented in 8th **National Conference on Recent Advancements in Food Processing Technology**, organized by Pavendar Bharathidasan College of Engineering and Technology, Trichy on 1st April 2016.
17. **G. Baskar**, A. Gurugula Devi, T. Nishanthini, Anticancer activity of *Ixora coccinea* linn flower extract against MCF-7 cancer cells, was presented in **National Conference on Advances in Science and Engineering Research**, organized by Arunai Engineering College, Tiruvannamalai, 18th and 19th March 2016.
18. **G.Baskar**, K. Sakthivel, Garrick Bikku George, Synthesis, characterization and anticancer activity of copper nanobiocomposites synthesized by leaf extract of *Catharanthus roseus*, was presented in **National Conference on Advances in Science and Engineering Research**, organized by Arunai Engineering College, Tiruvannamalai, 18th and 19th March 2016.
19. **G.Baskar**, Garrick Bikku George, Magnetic nanobiocomposite of asparagianase: Synthesis, characterization and anticancer activity against breast cancer cell line, was presented in **National Conference on Advances in Science and Engineering Research**, organized by Arunai Engineering College, Tiruvannamalai, 18th and 19th March 2016.
20. **G.Baskar**, K. Sakthivel, Garrick Bikku George, In-vitro cytotoxicity of copper oxide nanobiocomposites synthesized by *Catharanthus roseus* flower extract against breast cancer cell line, was presented in **National Conference on Recent trends in Biotechnology and Chemical Engineering**, organized by VelTech HighTech Dr. Rangarajan Dr. Sakunthala Engineering College, Chennai on 31st August 2015.
21. **G. Baskar**, A. Gurugula Devi, T. Nishanthini, Anticancer activity of bifunctional zinc oxide nanophytocomposite synthesized by *Ixora coccinea* Linn against cancer cells, was presented in **National Conference on Applications of Green Technologies for the Separations of Bioproducts**, organized by Department of Biotechnology, Sree Sastha Institute of Engineering And Technology, Chennai on 2nd and 3rd September 2015.
22. **G. Baskar**, D. Sakthivel, Garrick Bikku George, “Biosynthesis and Characterization of Copper Nanocomposites using *Catharanthus roseus* Leaf Extract” was presented in 4th **National Conference on Transfigures in Bioscience and Technology** organized by Department of Biotechnology, Madha Engineering College, Chennai on 6th March, 2015.
23. S. Sivarathnakumar, B. Bharathiraja, J. Jayamuthunagai, R. Praveen Kumar, **G. Baskar**, “Simultaneous saccharification and fermentation of bioethanol from softwood *Moringa oleifera* using thermo-tolerant yeast *Kluyveromyces marxianus* MTCC 1388” was presented in 3rd **National Conference on Challenges in Biochemical Engineering and Biotechnology for Sustainable Environment** organized by Department of Chemical Engineering, Annamalai University, during 2nd and 3rd April, 2014.

24. N. Josephine Selvi, **G. Baskar**, Aruna Singh, “A Study on Effect of Various Pretreatment Methods on Osmotic Dehydration of Fruits for Qualitative and Quantitative Advantage” was presented in 3rd **National Conference on Challenges in Biochemical Engineering and Biotechnology for Sustainable Environment** organized by Department of Chemical Engineering, Annamalai University, during 2nd and 3rd April, 2014.
25. Elsa Cherian, **G. Baskar**, M. Dharmendra Kumar, Optimization of cellulase production and its application in saccharification for Bioethanol production was presented in **National Conference on "Biotechnology Interventions in Societal Development**, organized by Department of Biotechnology, Arunai Engineering College, during 21st & 22nd March 2014.
26. **G. Baskar**, V. Dhanushree, R. Shravanthi, Immobilized Magnetic Nanocomposites and their Biotechnological Applications, was presented in DBT Sponsored **National Conference on “Applications of Biomaterials and Nanomaterials in Biomedical Engineering”**, organized by Department of Biotechnology, Karpaga Vinayaga College of Engineering and Technology, Arunai Engineering College, during 13th and 14th March 2014.
27. **G. Baskar**, J. Chandhuru, K. Sheraz Fahad, A. S. Praveen, “Metal nanobiocomposites as effective anticancer drugs” was presented in **National Seminar cum Workshop on Applications of Green Technologies for Separation of Bioproducts**, organized by Department of Biotechnology, Karpaga Vinayaga College of Engineering and Technology, Chennai on 22nd and 23rd July, 2013.
28. Elsa Cheriyan, **G. Baskar**, J. Chandru, M. Dharmendrakumar, “Enhanced production of cellulose and its applications” was presented in AICTE Sponsored **National Seminar on Recent Trends in Advanced Fermentation Technology** organized by Department of Biotechnology, Vel Tech High Tech Dr.Rengarajan Dr.Sakunthala Engineering College, Chennai on 14th and 15th March - 2013.
29. M. Chamundeswari, J. Chandru, A. S. Praveen, K. Sheraz Fahad, **G. Baskar**, “Multifunctional aluminium nanocomposite for hyperthermia in cancer therapy” was presented in **National Conference on Multifunctional Nanomaterials and Nanocomposites**, organized by Department of Nanoscience and Technology, Bharathiar University, Coimbatore, during 25th & 26th February 2013.
30. **G. Baskar**, R. Bharathi, S. Fyna, J. Chandhru, A. S. Praveen, K. Sheraz Fahad, M.Chamundeswari, “Biosynthesis, characterization and antifungal activity of silver nanoparticles from *Aspergillus niger*” was presented in **National Conference on Multifunctional Nanomaterials and Nanocomposites**, organized by Department of Nanoscience and Technology, Bharathiar University, Coimbatore, during 25th & 26th February 2013.
31. **G. Baskar**, J. Chandhru, K. Sheraz Fahad, A. S. Praveen, “Characterization and antimicrobial activity of silver nanoparticles synthesized by *Aspergillus terreus*” was presented in **National Conference on Microbiology and Biotechnology: Rising to the Challenges of Times**, organized by Department of Microbiology, Madras Christian College, Chennai, during 18th & 19th February 2013.
32. **G. Baskar**, S. Renganathan, “Production and partial purification of L-asparaginase by *Aspergillus terreus*” was presented in **National Conference on Transfigures in Bioscience**

and Technology, organized by Department of Biotechnology, Madha Engineering College, Chennai, during 25th & 26th September 2012.

33. D. Srinidhi, K. Rekha, R. Chitra Devi, K. Prema, **G. Baskar**, “Optimization of media components for microbial rennet production by fungal species isolated from probiotic curd” was presented **National Conference on Innovations in Process Engineering for Sustainable Development**, organized by Department of Chemical Engineering, Sri Venkateswara College of Engineering, Chennai, during 13th and 14th September 2012.
34. V. B. Pranav, M. Vasanthkumar, T. Dilliganesh, **G. Baskar**, “Mycological synthesis of gold nanoparticles”, was presented in **National Conference on Applications of Nanomaterials**, organized by Department of Chemical Engineering, SSN College of Engineering, Chennai on 21st March 2012.
35. **G. Baskar**, D.V. Sneha, S. Babitha Merlin, J. Angeline Vidhula, S. Renganathan, “Production of microbial milk clotting enzyme by *Aspergillus candidus* MTCC1989”, was presented in **CHEMCON 2011**, organized by the Department of Chemical Engineering M.S. Ramaiah Institute of Technology and Bangalore Regional Centre of **Indian Institute of Chemical Engineers** during 27th – 29th December– 2011 at Bangalore.
36. **G. Baskar**, Ashwini Srihari, B. Divya, “Modeling and optimization of medicinal exopolysaccharide production using artificial neural network linked genetic algorithm”, was presented in **New Horizons in Bio-processing of Foods (NHBF-2011)**, Sant Longowal Institute of Engineering and Technology, Longowal-148106 (Punjab) during 25 & 26 February 2011.
37. K. Aparna, V. Amrita, S. K. Pavithra, **G. Baskar**, “Biosorption of a Aniline Blue by dead Biomass of *Aspergillus fumigates*: Estimation of Equilibrium, thermodynamic and kinetic parameters”, was presented in **CHEMCON 2010**, organized by the Department of Chemical Engineering **Annamalai University** and Annamalai-Neyveli Regional Centre of **Indian Institute of Chemical Engineers**, 27th – 29th December– 2010, at Chidambaram.
38. **G. Baskar**, K. Swatha, G. Nimalan, “Optimization of medicinal polysaccharide production by *Ganoderma lucidium* using artificial neural network linked genetic algorithm”, was presented in **CHEMCON 2010**, organized by the Department of Chemical Engineering **Annamalai University** and Annamalai-Neyveli Regional Centre of **Indian Institute of Chemical Engineers**, 27th – 29th December– 2010, at Chidambaram.
39. **G. Baskar**, C. Sriharini, S. Renganathan, “RSM and ANN linked genetic algorithm for optimization of operating conditions for fungal L-asparaginase production using groundnut oil cake as substrate”, was presented in **CHEMCON 2010**, organized by the Department of Chemical Engineering **Annamalai University** and Annamalai-Neyveli Regional Centre of **Indian Institute of Chemical Engineers**, 27th – 29th December– 2010, at Chidambaram.
40. **G. Baskar**, M. I. Mohammed Adhil, S. Renganathan, “Optimization of L-asparaginase production in submerged fermentation using yeast extract peptone media”, was presented in **CHEMCON 2010**, organized by the Department of Chemical Engineering **Annamalai University** and Annamalai-Neyveli Regional Centre of **Indian Institute of Chemical Engineers**, 27th – 29th December– 2010, at Chidambaram.

41. L.K. Sree Rajesh, K. Swatha, G. Srithatchayani, S. Ganga, **G. Baskar**, "Statistical optimization of media components for the production of Ganoderic acid from cottonseed oil cake by *Ganoderma lucidium* MTCC 1039" was presented in National Conference on Emerging Concepts in Biotechnology, organized by **National Institute of Technology Calicut**, India, 11th and 12th December– 2009.
42. **G. Baskar**, S. K. Pavithra, **S. Aarthi**, S. Renganathan, "Screening of supplementary nitrogen source for L-asparaginase production from Soya bean meal flour by *Aspergillus terreus* MTCC 1782 using Latin Square Design" was presented in **CHEMCON 09**, organized by the Department of Chemical Engineering **Andhra University** and Waltair Regional Centre of **Indian Institute of Chemical Engineers**, 27th – 30th December– 2009, at Visakhapatnam.
43. **G. Baskar**, C. Sriharini, **R. Sripriya**, S. K. Pavithra, L. Arul Antony Maria, "Advancements in Fermentative Biohydrogen Production" was presented in National Conference on "Biohydrogen-An Innovative fuel", organized by **Periyar Maniyammai University**, Jan. 21st-23rd – 2009 at Thanjavur, India.
44. **G. Baskar**, C. Sriharini, **R. Sripriya**, S. K. Pavithra, S. Aarthi, "Sustainable Fermentative Hydrogen Production: challenges for Process Optimization" was presented in National Conference on "Biohydrogen-An Innovative fuel", organized by **Periyar Maniyammai University**, Jan. 21st-23rd – 2009 at Thanjavur, India.
45. **G. Baskar**, S. Renganathan, "Statistical Optimization of Enzymatic Hydrolysis of Cassava Starch by Cross-linked α -amylase" was presented in **CHEMCON 08**, organized by IChE during 27th-30th December - 2008 at **Panjab University**, Chandigarh in India.
46. **G. Baskar**, M. Dharmendra Kumar, S. Renganathan, M. Velan, "Optimization and Kinetics of Enzymatic Hydrolysis of cassava Starch by cross-linked fungal α -amylase" was presented in **CHEMCON 08**, organized by IChE during 27th-30th December - 2008 at **Panjab University**, Chandigarh in India.
47. **G. Baskar**, S. Renganathan, "Screening of fungal species and substrates for L-asparaginase production by *Aspergillus terreus* MTCC 1782" was presented in **CHEMCON 08**, organized by IChE during 27th-30th December - 2008 at **Panjab University**, Chandigarh in India.
48. C. Sriharini, R. Sripriya, S. K. Pavithra, **G. Baskar**, "Statistical Optimization of media components for the Production of L-asparaginase by *Enterobacter aerogenes* using Central Composite Design" was presented in **S-CHEMCON 08**, organized by IChE during 26th and 27th September – 2008, at **National Institute Technology Jalandhar** in India.
49. S. Renganathan, S. Vetri Kumaran, M. Dharmendra Kumar, **G. Baskar**, M. Velan, "Optimization of Batch Process Parameters using Response Surface Methodology for the Removal of Acid Red 18 Dye Using *Tamarindus indica* Fruit Hull", was presented in **CHEMCON 07**, 27th-30th December - 2007 at Kolkatta, India.
50. S. Renganathan, S. Vetri Kumaran, **G. Baskar**, K. S. Vinod Kumar, P. Gautam, "Process Parameter Optimization using Response Surface Methodology for Acid Red 18 Dye Removal by *Saccharomyces cerevisiae*", was presented in **CHEMCON 07**, 27th-30th December - 2007 at Kolkatta, India.

51. **G. Baskar**, C. Muthukumaran, T. Viruthagiri, "Optimization of Operating Conditions for the Production of L-asparaginase by *Enterobacter aerogenes* using Central Composite Design" was presented in **CHEMCON 07**, organized by IChE during 27th-30th December - 2007 at Kolkatta, India.
52. M. Gopinath, R. Dhanasekar, T. Viruthagiri, **G. Baskar**, "Optimization and Kinetic Modeling of the Production of γ -decalactone using *Sporidiobolus salmonicolor*" was presented in **CHEMCON 07**, organized by IChE during 27th-30th December - 2007 at Kolkatta, India.
53. **G. Baskar**, T. Viruthagiri, "Evaluation and Optimization of Medium Components and Operating Conditions for the Production of L-asparaginase by *Aspergillus terreus*" was presented in **CHEMCON 06**, organized by IChE, India in association with Canadian and European Society of Chemical Engineers, was held in 27th-30th December - 2006 in India.
54. **G. Baskar**, S. K. Nagarajan, P. Ravichandran, "Academic Training Needs of Faculty members in higher Educational Institutions" in AICTE sponsored "**National Seminar on Retrospects and Prospects of Technical Education**" organized by **ISTE Regional Section (TN&P)** at RMK Engineering College, Chennai on 4th November - 2006.
55. **G. Baskar**, M. Gopinath, "Health effects of Genetically Modified Foods and Its risks Assessment", in a "**National Conference on Biotechnology in Genomics Era**", organized by the Department of Biotechnology, **Adhiyaman Engineering College** during 5th and 6th April - 2006.
56. **G. Baskar**, T. Viruthagiri, "Applications of Statistical Methods in Bioprocess Development" in UGC Sponsored "**National Seminar on Statistical Models and Methods for data analysis**", organized by the Department of Statistics, **Annamalai University** during 8th and 9th March - 2006.