



Name: **Dr.Chand Pasha**

Designation: **Assistant Professor,**

**Head Dept of Microbiology**

Department/Institute/University: **Department of Microbiology, Nizam College, Osmania University, Hyderabad.**

**Education** (Post-Graduation onwards & Professional Career)

Sl No.	Institution Place	Degree Awarded	Year	Field of Study
1	Dept of Microbiology Osmania University	M.Sc	2002	Microbiology
2	Dept of Microbiology Osmania University	Ph.D	2007	Molecular Microbiology
3	Nalsar Law University	PG Diploma in Patent Laws	2009-10	Patent Laws
4	World Intellectual Property Organization	PG Diploma in Patent Laws	2010	Patent Laws

**A. Position and Honors**

**Position and Employment(Starting with the most recent employment)**

Sl No.	Institution Place	Position	From (Date)	To (date)
1	Dept of Microbiology, Nizam College Osmania University	Head, Asst Professor	15 <sup>th</sup> May 2007 2012	20 <sup>th</sup> Oct 2007 Till date
2	Dept of Microbiology, UCS Osmania University	Assistant Professor	21 <sup>st</sup> Oct 2007	2012
3	Dept of Microbiology, UCS Osmania University	JRF & SRF	April 2003	14 <sup>th</sup> May 2007
4.	Shantha Biotechnics, Hyderabad	Production Officer	May 2002	April 2003

• **Honors/Awards:**

- Junior and Senior Research Fellowship From DBT Government of India.
- Dr.Chand Pasha received the Best Poster award at ICBF and BRSI”2009.
- Dr.Chand Pasha received the Best Poster award at National Symposium on

“Perspectives of Genomics and Proteomics”2009.

- Best Hall presentation award at IISF2 2016 at NPL New Delhi
- Best Poster presentation award at IISF2 2016 at NPL New Delhi
- BEST INNOVATION AWARD
- Mr Chethan Kumar and Dr Chand Pasha for Novel and cheaper Calorimeter by Indian Science Congress at Department of Physics, University of Mumbai on 06.01.2015.

Jury member of NCSC, INSPIRE and KVRS at State and National level.

### **Professional Experience and Training.**

Dr. Chand Pasha is involved in protein engineering in UGC,DST, TIFAC and DBT projects. Constructed inhouse vector for yeast surface display of proteins. Three cellulases (endocellulase, Cellobiohydrolase. Beta-glucosidase) were engineered & cloned in developed vector under Gal promoter and maximum surface display was achieved.

Completed PhD in the area of Yeast molecular biology. During this period evaluated the molecular mechanism of thermal stress tolerance, developed high cellulase producing fungal strain, and pentose utilizing fusant yeast strain for ethanol production also developed a economically viable laboratory process for ethanol production. At Nizam College organized one day conference on “Recent Trends in Applied Microbiology” on 27<sup>th</sup> October 2007 and initiated “Louis Pasteur Microbiology Research Award” to encourage young students to select research as career. His areas of research include genetic and protein engineering, yeast surface display for therapeutic proteins and bioethanol production. Current work include biofuels using lignocellulosics, therapeutic peptides for skin whitening, Analgesic, Contraceptive, anti aging and antimicrobial small peptides. He has undergone training in IPR, Bioinformatics and Multimedia.

He is a Life member of Indian Science Congress Association, Association of Microbiologists of India and Biotech Research Society of India. Working as editor to Inter Journal Medicine and Medical Sciences, Research in Pharmaceutical Biotechnology (RPB), Journal of Medicinal Plants Research, Journal of Food and African Journal of Biotechnology.

### **B. Latest Publications**

1. Shaik Muzammil Pasha, Asma Begum, Vasu Dev Hari Narayana Kola, Shaik Akbar Pasha, Vinod Kumar Chauhan and Chand Pasha (2023) Simultaneous Nucleic Acids Separation and Extraction Using Silica Gel-Agarose Matrix Gel, American Journal of Biochemistry and Molecular Biology, 13(2);28-35.
2. Chand Pasha, Sridhar Aravind, Asma Begum and Shaik Muzammil Pasha (2023) Antimicrobial and Biodegradable Sanitary Pads with Nanomaterials Fused Polymers, Asian Journal of Biological science. 16 (3): 218-228,
3. Syeda Sumaiyya Fatima, Shaik Muzammil Pasha, Y.S.Goutham, V.Nikhil, Zainab Kausar, A. Sanjay, V.Meghana, B.Keerthi and Chand Pasha (2023) Isolation of *Klebsiella Pneumonia* from Post Covid Infections and Raising Bacteriophages, J.Bio.Innov12(3), pp: 465-477, 2023
4. V. D. Hari Narayana Kola, Koigoora Srikanth, Shaik Muzammil Pasha, Y. Sudhan Goutham and Chand Pasha (2023) Optimization Of Salmonella

Bacteriophages Production By Taguchi Approach European Chemical Bulletin 2023,12(8), 2580-2592

5. V. D. Hari Narayana Kola , Koigoora Srikanth , Shaik Muzammil Pasha , Y. Sudhan Goutham and Chand Pasha (2023) Optimization of *Escherichia coli* Bacteriophages Production , *Journal of Advances in Microbiology* ,Volume 23, Issue 4, Page 28-37,
6. Vasu Dev Hari Narayana Kola, Koigoora Srikanth, Shaik Muzammil Pasha, Yemgadda Sudhan Goutham and Chandpasha, 2023. Isolation and characterization of *Escherichia coli* and *Salmonella* Bacteriophages from Poultry. *Current Research in Bacteriology*, 16: 126.
7. Shaik Muzammil Pasha ,Shaik Musfera , L. Venkateswar Rao and **Chand Pasha** (2023) Role of Heat Shock Proteins and Plasma Membrane on Thermotolerance in *Saccharomyces cerevisiae* VS3 Strain, *Journal of Stress Physiology & Biochemistry*, Vol. 19, No. 2, pp. 82-94
8. J. Pavan Kumar, Shaik Muzammil Pasha, Y.S Goutham and **Pasha, C.** (2023) Isolation and characterization of *Pseudomonas aeruginosa* bacteriophages. *Journal of microbiology and related research*.9(1), 9-16.
9. L. B. Laxmikanth Rathod , Shaik Muzammil Pasha , Anju Rajan , Madhavi and **Chand Pasha** (2023) Sequential Strain Improvement of *Cordyceps militaris*, *Journal of Advances in Microbiology* Volume 23, Issue 3, Page 13-20
10. V. D. Hari Narayana Kola , Koigoora Srikanth , Shaik Muzammil Pasha , Yemgadda Sudhan Goutham and **Chand Pasha** (2023) Microbial Load, Antibiotic Resistant Bacteria and Antibiotic Residues in Broiler Chicken, *European Journal of Nutrition & Food Safety* Volume 15, Issue 1, Page 1-9
11. Shaik Muzammil Pasha ,Shaik Musfera , Hari Narayana Kola L. Venkateswar Rao and **Chand Pasha** (2023) Heat Shock Induced Triple Helix DNA and it's Refolding to Duplex by HSP70 in Yeast, *Journal of Cell Science & Molecular Biology*, Volume 5, Issue 1 – 1-4
12. Y.S. Goutham, Shaik muzammil Pasha, Shaik Musfera and **Pasha, C.** (2023) Bee free honey production using *Aspergillus Niger*. *J.Bio.Innov.*12(1), 83-97.
13. Prasad, U.S., Y.S Goutham, Shaik muzammil Pasha and **Pasha, C.** (2022) Isolation of antimicrobial peptides from *Eisenia fetida*. *J.Bio.Innov.* 12(2); 451-464.
14. Y.S Goutham, Shaik Muzammil Pasha, Naveen, M. and **Pasha, C.** (2022) Ammonia pretreated cotton stalks for bioethanol production using *Saccharomyces cerevisiae* CP 11. *Asian Journal of Biotechnology and Bioresource Technology*. 8(4): 81-87.
15. Shaik muzammil Pasha, Navya, P., Shaik Musfera, Y.S Goutham and **Pasha, C.** (2022) Bioethanol Production from ammonia pretreated rice straw. *Journal for Research in Applied Sciences and Biotechnology*. 1(5): 120-124.
16. Pagolu Vishnu, Sri Suma, Shaik Muzammil Pasha, Anju, Rajan, Chand, Pasha (2021) First Line Male Infertility Detection Method, *Journal Of Bio Innovation*, Volume 10, Issue 6. 1630-1639

17. J. Usha Rani , Chand Pasha , S.S. Vutukuru , B. Siva Prasad (2019) Production of a Recombinant Anti-tyrosinase Chimeric Peptide in Methylophilic Yeast, *Pichia pastoris*. International Journal of Scientific Research in Biological Sciences Vol.6, Special Issue.1, pp.66-71.
18. Kamala, Srinivas, Jaya Sree, Usha Rani Chand Pasha (2019) Evaluation of Antimicrobial activity of Recombinant Engineered Small Peptides Expressed in *Pichia pastoris*, Asian Journal of Microbiology, Biotechnology & Environmental Sciences Vol. 21, No. (3) : 2019 : 756-765
19. Usha rani. J, siva prasad. B, vutukuru. S.s. and **Chand Pasha (2019)** In *Silico* Design Of Antityrosinase Small Peptides For Skin Lightening Therapeutics International Journal Of Pharmacy And Biological Sciences. 9, 1.
20. 2. J. Usha rani, b. Siva prasad, s.s. Vutukuru , g. Jayasree , **Chand Pasha (2019)** In *Silico* Designing Of Antityrosinase Peptides Asian Journal Of Microbiology, Biotechnology And Environmental Science, Vol. 21, No. (2) : 2019 : 175-180 .
21. Usha rani. J , siva prasad. B, vutukuru. S.s. , kamala. G and **Chand Pasha(2018)** Screening Anti-Oxidant And Anti-Tyrosinase Potential Of Plants And Earthworm Extracts International Journal Of Pharmacy And Biological Sciences . 8 , 4 , 495-501
22. Golla.Kamala, SS.Vutukuru and **Chand Pasha** (2017) In silico modeling of engineered Buforin II; International Journal of Current Research. ISSN 0975-833X Volume 9, Issue 01 pp. 45370-45373.
23. Y.Suresha,, S.Annapurnab, A.K.Singhc, A.Chetana, **Chand Pashad**, G.Bhikshamaiaha (2016) Characterization and evaluation of anti-biofilm effect of green synthesized copper nanoparticles Materials Today:ISSN No: 13697021 Proceedings 3 1678–1685
24. Golla. Kamala, Dr. SS. Vutukuru and Dr. **Chand Pasha** (2016) In Silico Modeling of Engineered LL-37; International Journal of Biotechnology and Biochemistry ISSN 0973-2691 Volume 12, Number 2 pp. 197-20.
25. P. Ramesh,, M.Revathi, Ammar Adil.H, N.A.AL-Satar Mohammeda1, S. Siddappa, P. Muralidhar Reddy, and **Chand Pasha** (2016) Copper (II) Complexes of New Carboxamide Ligands: Synthesis, Spectroscopic and Antibacterial study International Journal of Advanced Research in Chemical Science (IJARCS) Volume 3, Issue 8, August 2016, PP 1-8.
26. Ammar Adil.H, M.Srikanth, N.A.AL-Satar Mohammeda, A. Sanjeev, M. Radhika, P. Muralidhar Reddy, and **Chand Pasha** (2016) Synthesis, Structural Characterization and Antibacterial Studies of Cobalt Complexes Containing Bidentate Amide Ligands, Journal of Advances in Chemistry, Volume 12 Number 8, 4309-4316.
27. Kamala Golla, SS. Vutukuru , J. Usha Rani, P.Meghanath and **Chand Pasha** (2016) Screening of small peptides from various germinating seeds having antimicrobial activity, IOSR Journal of Pharmacy and Biological Sciences Volume 11, Issue 1 Ver. I (Jan. - Feb. 2016), PP 52-60.
28. Dr. **Chand Pasha**, A.Chetana, Mrunalini And Renuka (2016) Novel Kit For Rapid Detection Of Microbial Load Of Various Clinical Samples, IISF,1,121-129.

29. **Pasha,C.,** Balakrishna ,Hanumalal, Srinivas and Chandra Sekhar, (2013) Evaluation of Toxins, Anti-nutrients and Nutrients of Indian Cultivating Varieties of *Jatropha curcas*. Asian Journal of Chemistry 25 (3)1638-1642.
30. SrinivasBanothl,BalakrishnaKannoju,HanumalalNunavath,ChandrasekharBanoth, Dr.**Chand pasha** (2013) Biotransformation and biocracking of long-chain fatty acid and Hydrocarbons; Technology spectrum, Vol 6, No 1&2, ISSN:0974-6864.
31. **Pasha,C.,** Balakrishna and Hanumalal (2012) Biological detoxification of *Jatropha curcas* deoiled seed cake. journal of Empirical biology 21,131-139
32. Habib M. Thabet, **Chand Pasha** , MdMaqsood Ahmedand Venkateswar R. Linga (2012) Isolation of Novel Lipase Producing *Sporobolomyces salmonicolor* OVS8 from Oil Mill Spillage and Enhancement of Lipase Production Jordan Journal of Biological Sciences 5, 4, 301 – 306
33. **Pasha,C.,** ChandraSekhar,Srinivas, Balakrishna and Hanumalal (2012) Sequential cellulaseproduction, saccharificationand ethanolfermentation usingrice straw. Journal of scientific and industrial research, 71: 616-620.
34. **Pasha,C.,** Sayeed, Sadath ., Ziaullah (2009) Antisalmonella Activity of Selected Medicinal Plants Turk J Biol 33 59-64.
35. **Pasha C,** Vinod Kumar, Hakeem, Sri divya and J.V Rao (2009) Gambusia fish for controlling of pathogenic water microorganisms. Ecology and fisheries 2(1):15-24
36. Srilekha, Nasiruddin, **Chand Pasha**, L.V Rao (2009) Concentration of Rice straw Hydrolysate for ethanol fermentation using Co culture: International Conference on Emerging Trends in Biotechnology, : Banaras Hindu University, Varanasi, UttarPradesh
37. Srilekha, Nasiruddin, **Chand Pasha**, L.V Rao (2009) Ethanol fermentation by co-culture using Neutralized and detoxified Hydrolysates National Seminar on Biological and alternative energies present and Future: Biochemistry Department, Andhra University, Vishakhapatnam
38. **Pasha,C.,** MohdSadath Ali and Vinod KumarChauhan. Microbiological Analysis of Holy Waters from Tirupathi and BadaPahad. Journal of Aquatic Biology, 23(1),2008
39. **Pasha,C.,** Habeeb; Kuhad,; L.V Rao (2008) Bioethanol Production from *ProsopisJuliflora* Using Thermotolerant*Saccharomyces Cereviseae* VS<sub>3</sub> Strain, Journal of Biobased Materials and Bioenergy, 2, (3): 204-209(6).
40. **Pasha,C.,** Maqsood, Anuj and Rao, L.V. (2008) Bioethanol Production with *Prosopisjuliflora* Pods using Thermotolerant *Saccharomyces cereviseae* VS3 strain, Journal of technology spectrum,2,3;130-133.
41. Chandel.A.K, Lakshmi Narasu, Ravinder.R, Reddy.J, **Pasha.C** , Ravindra.P , and Rao, L.V. (2008) Forecasting of Bioethanol Production from Agro crop Residues in Andhra Pradesh State: A Case Study, Journal of technology spectrum 1,2,12-27.
42. **Pasha,C.,** Kuhad, R.C and Rao, L.V. (2007b) Strain Improvement of Thermotolerant*Saccharomyces cerevisiae* VS3 strain for better utilization of lignocellulosic substrates. Journal of Applied Microbiology. 103, 1480–1489.
43. **Pasha, C.**Valli,N,. andRao, L.V.(2007a) *Lantana camara* for Fuel Ethanol Production using Thermotolerant Yeast. Letters in Applied Microbiology. 44,6, 666-672.

44. **Pasha, C.**, Aruna.A and VenkateswarRao L (2007) Probiotic Microbes- Thermotolerant Yeasts for Veterinary Applications. Poultry and Veterinary Science.
45. **Pasha, C.**, and VenkateswarRao L (2005) Prediction and confirmation of Triplex DNA formation in Heat shocked Yeast. Emerging Trends in Mycology Plant Pathology & Microbial Biotechnology 323-330.
46. **Pasha.C.**,Aruna,A., Maqsood,A.M. and Rao,L.V. (2005) Novel mutation method for increased cellulase production. Journal of Applied Microbiology **98**, 318–323.
47. **Pasha, C.** and Reddy, G. (2005) Nutritional and medicinal improvement of black tea by yeast fermentation. Journal of Food Chemistry **89**, 449 – 453.

### **C. Books/ Chapters**

1. **Chand Pasha**, Bhima (2024) Laboratory Experiments in Microbiology. ISBN no 978-81-969070-5-1, Professional Books Publishers, Hyderabad
2. **Chand Pasha**, Bhima (2024) Souvenir of National Conference on Innovations in Microbial Biotechnology: Pioneering the future. ISBN no 978-81-969070-6-8, Professional Books Publishers, Hyderabad
3. **Chand Pasha**, Vimala Rode (2024) Introduction to Microbiology. APSCHE syllabus for BSc Honors, Course 3 ISBN no 978-93-95854-79-5, Professional Books Publishers, Hyderabad
4. **Chand Pasha**, Vimala Rode (2024) Bacteriology and Virology. APSCHE syllabus for BSc Honors, Course 4 ISBN no 978-93-95854-79-9, Professional Books Publishers, Hyderabad
5. **Chand Pasha**, Khadijah Al Khadir (2024) Practical Immunology: A Manual Approach. For MSc Microbiology, Osmania University. ISBN no 978-93-95854-67-2, Professional Books Publishers, Hyderabad
6. **Chand Pasha**, (2023) Principals of Biological Sciences . ISBN no 978-93-95854-54-2, Professional Books Publishers, Hyderabad
7. **Chand Pasha**, A. Vimala rodhe, VijayBhaskar Reddy, Nageshwar Rao A (2023) Introduction to classical Biology . ISBN no 978-93-95854-50-4, Professional Books Publishers, Hyderabad
8. **Chand Pasha**, A. Vimala rodhe and Sucharitha (2023) Introduction to Applied Biology . ISBN no 978-93-95854-51-1, Professional Books Publishers, Hyderabad
9. **Chand Pasha**, A.Madhuri, Ingelela Marian Rajini and Nazia begum (2022) Medical microbiology and immunology Semester-4. ISBN no 978-93-91576-73-8, Divya Laxmi Publishers and Distributers, Meerut
10. **Chand Pasha**, J.Sarada, Y.Aparna and Anju (2022) Chemistry of Biomolecules. ISBN no 978-93-91576-54-7, Divya Laxmi Publishers and Distributers, Meerut
11. **Chand Pasha**, A.Madhuri, Ingelela Marian Rajini, Anju Rajan, Hanumalal (2022) Industrial Microbiology, Semester 6, ISBN no 978-93-90226-02-3 Divya Laxmi Publishers and Distributers, Meerut
12. **Chand Pasha**, Sai Padma and Kamala (2021) Basics of Biochemistry. ISBN no 978-93-91576-53-0, Divya Laxmi Publishers and Distributers, Meerut
13. **Chand Pasha**, A. Vimala rodhe, (2022) Microbial Physiology and Biochemistry . ISBN no 978-93-91365-21-9, Vrinda Publication House, Hyderabad

14. **Chand Pasha**, (2021) Textbook of Molecular Biology, ISBN no 978-93-91576-14-1 Divya Laxmi Publishers and Distributers, Meerut
15. **Chand Pasha**, Revathi and Sai Padma (2021) Food Science and Technology Semester-4. ISBN no 978-93-91576-52-3, Divya Laxmi Publishers and Distributers, Meerut
16. **Chand Pasha**, Muthenna (2021) Medical microbiology and immunology Semester-4. ISBN no 978-81-952384-6-0, Divya Laxmi Publishers and Distributers, Meerut
17. **Chand Pasha**, A. Vimala rodhe, J. Sridevi (2021) Immunology and medical microbiology Semester-4. ISBN no 978-81-950990-8-5, Professional Books Publishers, Hyderabad
18. **Chand Pasha**, A.Madhuri, Ingelela Marian Rajini (2021) General Microbiology, Semester 1, ISBN no 978-93-90226-02-3 Divya Laxmi Publishers and Distributers, Meerut
19. **Chand Pasha**, A.Madhuri, (2021) Food and Environmental Microbiology, Semester 3, ISBN no 978-93-91576-11-0 Divya Laxmi Publishers and Distributers, Meerut
20. **Chand Pasha**, Smitha (2021) Environmental Education, ISBN no 978-93-91365-61-5 Sree publication House Vishakapatnam.
21. **Chand Pasha**, Swathi and Anju Rajan (2021) Bioinformatics and Biostatistics , ISBN no 978-93-91576-05-9 Divya Laxmi Publishers and Distributers, Meerut
22. **Chand Pasha**, (2021) Molecular Biology and Microbial genetics, ISBN no 978-93-91679-01-9 Professional Books Publishers, Hyderabad.
23. **Chand Pasha**, A. Vimala rodhe, (2021) Microbial Physiology and Biochemistry . ISBN no 978-93-91365-21-9, Professional Books Publishers, Hyderabad
24. **Chand Pasha**, A.Madhuri, (2021) Microbiology and Human Health, ISBN no 978-93-91576-43-1 Divya Laxmi Publishers and Distributers, Meerut
25. **Chand Pasha**, A.Madhuri, and G. Rahul (2020) A Text book of Biotechnology (Biotechnology and Microbiology) with Practicals, Telangana CBCS BSc Semester-II. ISBN no 8194474108, Kedarnath Ramnath Publishers, Meerut
26. **Chand Pasha**, A.Madhuri, and MS. Ingelela Marian Rajiniii (2020) Hospital waste management CBCS BSc (Microbiology) Semester-6. ISBN no 9788194487302, Divya Laxmi Publishers and Distributers, Meerut
27. **Chand Pasha**, A.Madhuri, P. Muthenna and T. Raga sudha (2020) Text book of Food Microbiology. ISBN no 97881944873, Kedarnath Ramnath Publishers, Meerut
28. **Chand Pasha** A.Madhuri and I.M Rajni (2019) Text book of Applied Microbiology with Practicals, Telangana CBCS BSc III Year, Semester-V ISBN no 9387007383, Kedarnath Ramnath Publishers, Meerut
29. **Chand Pasha** and Muthanna (2019) Text book of Immunology with Practicals, ISBN no 9387007375 Kedarnath Ramnath Publishers, Meerut
30. **Chand Pasha** and Muthanna (2019) Text book of Pharmaceutical Microbiology with Practicals, ISBN no 9387007482 Kedarnath Ramnath Publishers, Meerut
31. **Chand Pasha** and Muthanna (2019) Text book of Medical Microbiology with Practicals, ISBN no 9387007634 Kedarnath Ramnath Publishers, Meerut

32. **Chand Pasha** and Naseeruddin (2019) Text book of Industrial Microbiology with Practicals, ISBN no 938700772-3 Kedarnath Ramnath Publishers, Meerut
33. **Chand Pasha, A.Chethana** and Naseeruddin (2019) Text book of Mushroom Cultivation, ISBN no 978938700780-2 Kedarnath Ramnath Publishers, Meerut
34. **Chand Pasha** Swathi and Janrdhan (2019) Text book of Biotechnology(Nucleic acids and Bioinformatics) with Practicals, Telangana CBCS BSc Semester-II ISBN no 938700765-0, Kedarnath Ramnath Publishers, Meerut
35. Golla. Kamala, Dr. SS. Vutukuru and Dr. **Chand Pasha** (2018) In Silico Protein Engineering of Pexiganan; Proceeding International conference on Biotechnology and Bioengineering-Trends, ISBN 978-93-85518-10-2 Pages 482-490.
36. **Chand Pasha**, A.Madhuri and I.M Rajni (2018) Text book of General Microbiology-I with Practicals, Telangana CBCS BSc Semester-I ISBN no 8193438116, Kedarnath Ramnath Publishers, Meerut
37. **Chand Pasha**, A.Madhuri, I.M Rajni and Chetana (2018) Text book of General Microbiology-II with Practicals, Telangana CBCS BSc Semester-II ISBN no 9387007006, Kedarnath Ramnath Publishers, Meerut
38. **Chand Pasha** and Chetana (2018) Text book of Microbiology(Microbial physiology and Enzymology) with Practicals, Telangana CBCS BSc Semester-III ISBN no 8193438108, Kedarnath Ramnath Publishers, Meerut
39. **Chand Pasha** (2018) Text book of Microbiology(Microbial Genetics and Molecular Biology) with Practicals, Telangana CBCS BSc Semester-IV ISBN no 9387007162, Kedarnath Ramnath Publishers, Meerut
40. **Chand Pasha** A.Madhuri and I.M Rajni (2018) Text book of Biotechnology(Microbiology and immunology) with Practicals, Telangana CBCS BSc Semester-IV ISBN no 9387007146, Kedarnath Ramnath Publishers, Meerut
41. **Chand Pasha** and P.Muthenna (2018) Text book of Hematology and Food Adulteration(Skill enhancement course I & II) , Telangana CBCS BSc Semester-III & IV ISBN no 9387007057, Kedarnath Ramnath Publishers, Meerut
42. **Chand Pasha**, Vinod Kumar Chaouhan, M.D. Hakeem, B. Sri Divya and J. Venkateswar Rao (2011) "Gambusia Fish for Controlling of Pathogenic Water Microorganisms"Editor Dr. Vishwas B. Sakhare, Advances in Aquatic Ecology, Volume 5, pp7-13, published by Daya Publishing House, New Delhi - 110 002
43. Rao, L.V., and **Pasha, C.** (2005) Evaluation of thermotolerance mechanism in thermotolerant yeast for ethanol production. In Microbial Diversity – Current perspectives and potential applications" Edited by T.Satyanarayana and B.N Joshi published by I.K International, New Delhi.881 – 898.
44. Rao, L.V., and **Pasha, C.** (2006) Thermotolerant yeasts for bioethanol production using lignocellulosic substrates. In "Yeast" Book chapter edited by T.Satyanarayana and B.N Joshi published by J.K International, New Delhi. 2006

#### **D. Patents**

1. Novel human basic fibroblast growth factor active site mutated at one or more positions for vitiligo treatment. Indian NO 851/CHE/2005 Dt 04-07-2005 2008-01-25.
2. Anti cancer peptide drugs with novel activity and their biotechnological production. Indian NO 1207/CHE/2005 Dt 30-08-2005 , 2007-12-07.



3. Orthopedic appliance Shaik Muzammil Pasha and Dr Chand Pasha 6179/CHE/2014
4. Photocolorimeter for estimation of broad range substances Dr chand pasha, B. Chethan kumar, G. Kamala, J.Usha rani and Shaik Muzammil Pasha no: 2519/che/2015 :**20.05.2015**.
5. Analytical kit and method for rapid detection of microbial load of mouth. Dr Chand Pasha, B.Mrunalini, N.Renuka Satyasree, A.Chetana and Dr Mir Hassan Ahmed No granted: 2520/CHE/2015 :**20.05.2015**
6. Biotechnological hair dye preparation and method of uses. Inventors:Dr Chand Pasha, .K Sreeram, Shaik Muzammil Pasha, B Kamaleswari, B Manasa Sai, A Chetana, J.Usha Rani NO 201641015825, **09.05.2016**
7. Biotechnological underarm stick preparation and uses, Inventors: Dr Chand Pasha, K. Srilekha, B.Girishya, Shaik Musfera, B.Rohan Kumar, G.Kamala No 201641015826 :**09.05.2016**
8. Biotechnological hand wash Dr Chand Pasha, A. Vasavi, Shaik Musfera, Nur-ul – Hasan, Mohd. Ghousuddin and Dr. Rohini Rondla and No granted: 201641034484
9. Biotechnological hair Shampoo Dr Chand Pasha, R.Ramya Krishna, A. Chetana, G. Kamala, J.Usha Rani, K.SreeRam. No granted: 201641034480
10. Biotechnological Toilet cleaner Dr Chand Pasha, Mohd. Ghousuddin, Ahmed Abdul Haseeb, P.Muralidhar Reddy, Dr. Rohini Rondla No granted: 201641034479
11. Novel mouth cleaners with positive charged magnetic nanoparticles” Dr Chand Pasha, Shaik Muzammil Pasha, B. Anvesh, Siraj Samina, P.Omkar, Dr. P.Muralidhar Reddy, Dr Rohini Rondla, Ammar Adil.H No 201641017641 :**24.05.2016**
12. Nucleicacids seperation and purification using silicagel matrix, Dr Chand Pasha, N Prashanth, Dr Vinod Kumar, Akbar Pasha and Dr. Muralidhar Reddy No 201941040717: 18/10/2019
13. Tooth Paste Composition With Improved Oral Health Dr Chand Pasha, Sheeba, Subhash and Vijay Kumar No 201941040719: 09/10/2019
14. Biodegradable and Antimicrobial Sanitary Pad and Diaper, Dr Chand Pasha, Arvind, Asma and Dr Naseeruddin No 201941040722: 09/10/2019
15. COMPOSITION, USES FOR PEPPER SPRAY AND OTHERS Dr Chand Pasha , Dr.Hanumalal, Dr. Anju Rajan, Dr.Vijay Bhaskar Reddy and Dr. Madhavi No 202041005703 Date 10/02/2020.
16. Microbiological media solidifying agent and uses Dr.Chand Pasha, Mr.Shaik Muzammil Pasha, Mr Y.Goutham, Ms.Meppelli Divya Beulah Dr.Hima Bindu Pitta and Ms.Shaik Musfera, No 202141057865A Date 31/12/21
17. Bee free and microbial honey and its derivatives Dr.Chand Pasha, Mr Shiv Prasad, Mr Deepak, Ms Navya sree and Dr Sandhya jagtap. No 202141057832A Date 31/12/21
18. Tooth sensitivity alleviating preparations, Dr.Chand Pasha, Ms.Meppelli Divya Beulah Ms.Shaik Musfera,Mr.Shaik Muzammil Pasha, Dr.Hima Bindu Pitta and Dr.Hanumalal No 202141057855A Date 31/12/21
19. *Cordyceps militaris* production and usage as energy enhancer Dr.Chand Pasha, Dr L.B Laxmikant Rathod, Dr Madhavi, Mr.Shaik Muzammil Pasha, Dr.Hima Bindu Pitta and Dr.Hanumalal No 202141057850A Date 31/12/21

20. Chemical free Neera preservation 2022 Application No 202241002760
21. Bacteriophage preparation for Poultry 2023
22. Anti Fungal, Anti Bacterial And Cosmetic Composition, Preparation And Applications, Application No.202341067564 A Publication Date : 27/10/2023
23. ENGINEERED ANTIMICROBIAL PEPTIDES WITH IMPROVED ACTIVITIES Application No.202341076258 A Publication Date : 17/11/2023

#### **Patent Granted**

1. Patent No. : 472351 Grant date 23/11/2023 Application No. : 201941040717  
NUCLEIC ACID SEPERATION AND PURIFICATION USING SILICA GEL MATRIX Dr Chand Pasha
2. Patent No. : 489323 Date of Grant : 26/12/2023 Orthopedic appliance Shaik Muzammil Pasha and Dr Chand Pasha 6179/CHE/2014

#### **E. Gene Bank Submissions**

1. **Yeast** D1/D2 domain of 26S rDNA, 5.8S rDNA and ITS2 region. NCBI accession GenBank: EF042284 and EF042285.
2. **Yeast** 18S ribosomal RNA gene, sequences GenBank: HM003642, HM003643, HM009311, HM009312, HM009313, HM009314.1, HM009315.1, HM009316.1, HM009317.1HM009318.1, HQ659551, HQ659552, HQ659553, HQ659554, HQ659555, HQ659556, HQ659557, HQ659558, HQ659559HQ659560, HQ659561, HQ659562, HQ659563, HQ659564, HQ659565, HQ659566

#### **F. Conferences**

1. Organized one national conference as Organizing secretary at Nizam College on “Recent Trends in Applied Microbiology” on 27<sup>th</sup> October 2007 and initiated “Louis Pasteur Microbiology Research Award” to encourage young students to select research as career.
2. Organized a National Science Fair at Nizam college during Annual Day celebrations.
3. Organized a National Seminar with the assistance of TSCost at Nizam college Recent Innovations in Science and Technology on 2<sup>nd</sup> February 2016.
4. Organized One Week National Online Workshop In Applied Life-Sciences 24-30, July 2020.
5. Organized Two days workshop on latest technologies in Rapid Microbial testing Feb/22-23 2023.
6. Organized Three Days Hands On National Workshop On Gene Cloning April 24-26 2023.
7. Organized Two Days Hands On National Workshop On Microbiology 16-17 February 2024.
8. Organized two-day national conference on innovations in microbial biotechnology: pioneering the future 6<sup>th</sup> & 7<sup>th</sup> March 2024
9. Organizing committee member for several national and international conferences conducted by dept of Microbiology, UCS OU.

## **PAPER PRASENTATIONS**

Papers Presented during IISF-Indian International Science Festival at IIT Delhi from Dec 4-7, 2015

1. Dr. Chand Pasha, Chethana, Mrunalini and Renuka - **Novel Kit for Rapid Detection of Microbial Load of Various Clinical Samples.**
2. N.Renuka Satyasree, A.Chetana & Dr. Chand Pasha -**Fast Determination of microbial load in Urine sample.**
- 3.K.Sreeram, Md. Ghousuddin, Haseeb & Dr. Chand Pasha -**Electromagnetic Radiation Shield (EMR).**

Papers Presented during 103 rd ISC-Indian Science Congress at University of Mysore from Jan 3-7,2016.

1. Dr. Chand Pasha -**Analytical kit for rapid determination of microbial load in various samples.**
2. Mrunalini, N.Renuka Satyasree, A.Chetana & Dr. Chand Pasha - **Fast Determination of microbial load in mouth.**
3. B.Anvesh, P.Omkar, & Dr. Chand Pasha - **Biodegradation of Plastic.**
4. J. Sandhya, C.Rohan, B.Chethan Kumar &Dr. Chand Pasha - **Microbial water Purification.**
5. K.Sai Kumar,Praveen, Khaleel, & Dr. Chand Pasha - **Antimicrobial activity of plants collected from Ananthagiri hills**
6. A. Vasavi, M.Rachana & Dr. Chand Pasha - **Low cost N95 mask for swine flu.**
7. P.Rakesh, Balakrishna & Dr. Chand Pasha - **Biodiversity of Microbes in Paddy fields.**
8. Chethan Kumar & Dr. Chand Pasha- **Novel and cheaper colorimeter**
9. Manasa & Dr. Chand Pasha- **Fast Determination of microbial load in Urine samples.**
10. Srilekha, Chetana & Dr. Chand Pasha- Isolation of pectinase producing fungi.

**Dr. Chand Pasha**-“Novel mouth-Nanoparticles” during 104<sup>th</sup> Indian Science Congress held at S.V University, Tirupati from January 3<sup>rd</sup> to 7<sup>th</sup> 2017.

**Dr. Chand Pasha**- “Synthesis and Utilization of Nanomaterials for Biofuel Production” in NCIT’11 by Instrumentation of Electronics and Instrumentation Engineering during 4<sup>th</sup>-5<sup>th</sup> March 2011.

**Dr. Chand Pasha**-“Green Chemistry For a Sustainable and Healthy Economy”

On 23<sup>rd</sup> January 2016 in Tenali.

**Dr. Chand Pasha**-“Recent Applications in Medicinal & Material Devices” (NSRAMMD)” On 2<sup>nd</sup> July 2016 at Nizam College

**Dr. Chand Pasha**-Workshop on Skill Development by Placement Cell, Nizam College with O.Y.S.T.E.R on 10<sup>th</sup> Feb 2016.

**Dr. Chand Pasha**-Recent Advances in chemical and Material Sciences at RGUKT during 20<sup>th</sup>-21<sup>st</sup> August 2016.

Subject related extension activities involving interaction with society /community /Institutions

- Given guest lectures and worked as Jury member for INSPIRE, NCSC programs-DST
- Telangana State Academic co-ordinator for the National Children Science Congress-DST.

**Scientific projects : Completed**

S. No.	Title	Grant Period	Cost (Rs. in lakhs)	Funding Agency
1	Development of economical cellulase for bioethanol production	2008-10	28.Lacks	UGC
2	Bioethanol Production For Alternative Fuel From Selected Lignocellulosic Raw Materials Using Thermotolerant Yeasts.	2008-11	37.44 Lacks	DST
3	Efficient utilization of Jatropha seed cake by detoxification and recovery of residual hydrocarbon	2010-12	54.41 Lacks	TIFAC
4	Lignocellulose Saccharification and Direct Fermentation to Ethanol, by an Engineered Yeast Strain Codisplaying active Cellulalases/Domains	2009-12	56 lacks	DBT
5	Cloning, Overexpression and Characterization of Novel Analgesic Peptides In Suitable Host Organism	2010-13	13.7 Lacks	DBT
6	“Protein Engineering and Yeast surface display of Pencillin Acylases for syntheses of semi synthetic Pencilins”	2013-2016	47.5 Lacks	DST-PURSE

21.07.2024

Dr Chand Pasha