

## RESUME

**Dr. J. BALAJI CHANDRA MOULI**

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### EDUCATIONAL PROFILE:

**Ph.D. Program** : Awarded *Ph.D (Biochemistry)* from **Acharya Nagarjuna University**, Nagarjuna Nagar, Guntur, A.P.

**Pre Ph.D. program** : Awarded *M.Phil (Biochemistry)* with “A” Grade from **Acharya Nagarjuna University**, Nagarjuna Nagar, Guntur, A.P.

**Diploma program** : *Post Graduate Diploma in Medical Laboratory Technology (P.G.D.M.L.T.)*, with 66% under **Board of Technical Education**, Hyderabad, A.P.  
: *Post Graduate Diploma in Computer Applications (P.G.D.C.A.)*

**Masters program** : *M.Tech (Biotechnology)* with 76% under **Andhra University**. A. P.  
*M.Sc. (Biochemistry)* with 73% (Distinction division) under **Acharya Nagarjuna University**, Nagarjuna Nagar, Guntur, A.P.

**Bachelors program** : *B.Sc. (Botany, Zoology and Chemistry)* with 68% under **Nagarjuna University**, Nagarjuna Nagar, Guntur, A.P.

### EXPERIENCE PROFILE

#### Teaching:

- \* Working as an “*Assistant Professor*” (Ad-hoc) in Department of Biotechnology, **Adikavi Nannaya University**, Rajahmundry, A.P.
- \* Worked as an “*Academic Consultant*” in School of Life and Health Sciences, **Adikavi Nannaya University**, Rajahmundry, A.P.
- \* Worked as an “*Associate Professor*” in College of Pharmacy, **Jogaiah Institute of Technology & Sciences**, Palakol, A.P.
- \* Worked as an “*Assistant Professor*” in Department of Biotechnology at **Godavari Institute of Engineering & Technology (G.I.E.T)**, Rajahmundry, A.P.
- \* Worked as a “*Lecturer*” in Department of Biochemistry (U.G. & P.G) at **P.N.C. & K.R, College** Narasaraopet, A.P.

## Academics

### BOS CONVENER:

- **BOS Convener**, Department of Microbiology (P.G.), Adikavi Nannaya University, Rajamahendravaram.

### Board of Studies BOS:

- **BOS Coordinator**, Department of Microbiology (U.G.), Adikavi Nannaya University, Rajamahendravaram.
- **BOS Member**, Department of Microbiology (P.G.), DNR College (Autonomous), Bhimavaram, West Godavari Dt. A.P.
- **BOS Member**, Department of Microbiology (P.G.), SKSD Mahila Kalasala (Autonomous), Tanuku, West Godavari Dt. A.P.
- **BOS Member**, Department of Biotechnology (U.G.), SVKP & Dr. KS Arts and Science College, Penugonda, West Godavari Dt. A.P.
- **BOS Member**, Department of Microbiology (U.G.), ST Theresa (U.G & P.G.) College, Eluru, West Godavari Dt. A.P.
- **BOS Member**, Department of Microbiology (P.G.), KGRL College (Autonomous), Bhimavaram, West Godavari Dt. A.P.

### Research Editorial:

- ❖ *“Editorial Member of International Journal Series” Journal.*

### Administrative:

### Examinations:

- \* *“Coordinator”* P.G. Examinations, **Adikavi Nannaya University**, Rajamahendravaram
- \* *Observer”* for U.G. & P.G. Distance Education Exams, **Sri Krishnadevaraya University**, Anantapuramu, A.P.
- \* *“Special Observer”* for U.G. & P.G. University End Examinations **Adikavi Nannaya University**, Rajamahendravaram
- \* *“Ratified”* for the post of *“Assistant Professor”* in the Department of Biotechnology by **J. N. T .U**, Kukatpally, Hyderabad. A.P.

- \* ***“Internal Examiner, External Examiner, Observer, Chief Valuer and In charge Officer for J. N. T. U End Examinations”.***

### **Admissions:**

- \* ***“University Coordinator”*** for NANNAYACET -2017.
- \* ***“Observer”*** for NANNAYACET -2017.
- \* ***“Route officer”*** for NANNAYACET -2017.

### **Placements:**

- \* ***“Coordinator”*** Placement, Training and Research Guidance Center, **Adikavi Nannaya University**, Rajamahendravaram.
- \* ***“Training and Placement Officer”*** in the Department of Biotechnology, **Godavari Institute of Engineering & Technology (G.I.E.T)**, Rajahmundry, A.P.

### **Technical:**

- \* ***“Honoree Research Consultant” & “Academic Research Expert”*** of **Startek Laboratories**, Hyderabad. Telangana.
- \* Worked in ***“Analyst in Chief”*** Q.C. Department at **Startek Laboratories**, Hyderabad. A.P.
- \* Worked as ***“Laboratory Superintendent”*** in **Govardhan Diagnostics** at Guntur, A.P.

### **AREAS OF RESEARCH:**

- \* ***“Studies on vitamin profiles in diverse pathological and specified conditions in humans with a modern statistical approach - Artificial Neural Networks”*** for the award of **Doctor of Philosophy in Biochemistry** under the guidance of **Prof. B. Syama Sundar**, *Principal College of Sciences, Dean of Physical Sciences, Coordinator-Department of Biochemistry*, Acharya Nagarjuna University.
- \* ***“Monitoring of serum iron and zinc status of pregnant women with rural background”*** for the award of **Master of Philosophy in Biochemistry** under the guidance of **Prof. B. Syama Sundar**, *Head, Department of Chemistry*, Acharya Nagarjuna University.
- \* ***“Optimization of protease enzyme activity from Bacillus subtilis using Artificial Neural Networks”*** for the award of **Master of Technology in Biotechnology** under the guidance of **Dr. D Sri Rami Reddy**, *Department of Biotechnology*, Andhra University, Vishakhapatnam.

## **PROJECTS:**

- ***“Estimation of crude protein and fat by AOAC Methods, along with Agmark grading and evaluation of Moisture content of Sorghum grains”*** under the supervision of *Dr. V. K. Chathurvedhi, Sr. Scientist*, at **National Research Center for Sorghum (N.R.C.S) Affiliated to ICAR**, Rajendranagar, Hyderabad, A.P
- ***“H.I.V infection life cycle and pathogenecity”*** under the guidance of *Dr. Jagadeesh* at Shivani Diagnostics, Vijayawada, A.P.
- ***“Endocrinology of pregnancy”*** under the guidance of *Dr. Ramesh* at Govardhan Diagnostics, Guntur, A.P.

## **PROJECT GUIDANCE @U.G. (B.Tech.) LEVEL:**

- ***“Enzyme as Diagnostic Tools - A Biotechnology Perspective”*** carried at MNJ Institute of Oncology & Regional Cancer Center, Hyderabad, A.P.
- ***“Studies on Purification of Invertase from Saccharomyces cerevisiae”*** carried at Transgene Biotech Limited, Hyderabad, A.P.
- ***“Vanillin Biosynthesis by Microbial Biotransformation of Beet pulp”*** carried at Department of Biotechnology, G.I.E.T, Rajahmundry, A.P.
- ***“Structure based drug design studies of Pyrrolylactone and pyrrolylactam indolinones as Cyclin dependent kinase 2 Inhibitors”*** carried at Progene Biosciences, Visakhapatnam, A.P.
- ***“Computational binding studies of Human methyleno tetrahydrotolate reductase (MTHR) & cystathionine  $\beta$ -synthase (CBS) enzymes of homocystine metabolism involved in myocardial interaction”*** carried at Global Institute of Biotechnology, Hyderabad, A.P.
- ***“Sequence analysis & phylogenetic analysis of MAP Kinase”*** carried at Progene Biosciences, Visakhapatnam, A.P.
- ***“Microbiology amylase production from soil bacteria”*** at Department of Microbiology, carried Osmania University, Hyderabad, A.P.
- ***“Study on genetic markers & their polymorphism in Kshatriya community with urban background”*** carried at Department of Human Genetics College of Science & Technology, Andhra University, A.P.
- ***“Application of alignment strategies and 3D-Building on Drosophila Melanogaster glycogen phosphorylase NP-7227”*** carried at Progene Biosciences, Visakhapatnam, A.P.

- **“Prediction of IZBM unknown protein”** carried at Progene Biosciences, Visakhapatnam, A.P.

## **PUBLICATIONS:**

- \* **“Insilico Analysis of Cyp82e Gene Involved in Demethylation of Nicotine in Tobacco”** Saroja T1., T. Samuel David Raj1., Prabhakara Rao K2 and **Balaji Chandra Mouli J3\*** published in International Journal of Recent Scientific Research (IJRSR) ISSN: 0976-3031, Vol. 11, Issue, 05 (B), pp. 38654-38655, December, 2020. **Impact Factor (2017): 7.38**
- \* **“Consanguineous, Non- Consanguineous, Reproductive events, Fertility and Mortality differences of Yerukula Tribe. An Endogamous human population, Andhra Pradesh, India”** 1,\*Prakash, D.S.R.S., and 1**Balaji Chandra Mouli J.** in International Journal of Recent Scientific Research (IJRSR), ISSN: 0976-3031,(In Press) May, 2020. **Impact Factor (2017): 7.38**
- \* **“Review Article: Diabetes Mellitus: Types, Diagnosis, Treatment Can Type II Diabetes Be Cured?”** 1\*Prakash, D.S.R.S., 1**Balaji Chandra Mouli J.** and 2Kiran Deedi, M. published in International Journal of Current Research (IJCR), ISSN: 0975-833X, Vol. 12, Issue, 05, pp.11727-11732, May, 2020 **Impact Factor (2019): 7.76**
- \* **“Genetic Variation of Abo and Rh (D) Blood Groups Among The Yerukula Tribe Of Coastal Andhra Pradesh, India”.** \*D.S.R.S. Prakash, M.Kiran Deedi and **J. Balaji Chandra Mouli** published in International Journal of Recent Scientific Research (IJRSR) ISSN: 0976-3031, Vol. 11, Issue, 05 (B), pp. 38654-38655, May, 2020. **Impact Factor (2017): 7.38**
- \* **“Anti-Microbial Properties Of Black Tea, India: A Review ”\*** D.S.R.S.Prakash, **J. Balaji Chandra Mouli** and S.Murali Mohan published in Journal Of Harmonized Research in Applied Sciences (JOHR) ISSN 2321 – 7456, Vol 8 Issue (2)23-27 pages, 2020, XX-XX. **Impact Factor (2018) : 4.256**
- \* **“Study of Serum Vitamin Profiles in Diabetes Mellitus Patients by using Artificial Neural Networks in a District, Andhra Pradesh, India”** **J. Balaji Chandra Mouli\*** , D.S.R.S. Prakash , S. Murali Mohan published in International Journal of Science and Research (2019) (IJSR)ISSN: 2319-7064 SJIF (2018): **7.426**
- \* **“Comparative Studies On Phytochemical Screening And Metal Analysis Of Alcoholic Extracts Of Musa Acuminata, Actinidia Deliciosa And Mangifer Indica By Using Icp-Oes And Flame Photometer”** **J. Balaji Chandra Mouli\***, Chandaka Madhu, K Ramanji Reddy, P Jhansi Lakshmi and Mohammed Omar, published Review/Research article in EC Pharmacology and Toxicology **7.5 (2019): 422-431.**
- \* **“Estimation of Metals in Herbal Leaves by Ash Extracts by Using ICP-OES and Flame Photometer”** **J. Balaji Chandra Mouli\***, Chandaka Madhu, K Ramanji Reddy and

Mohammed Omar, published Review/Research article in EC Pharmacology and Toxicology **7.5 (2019)**

- \* ***“Estimation of Phytochemical Screening, Antibacterial And Antifungal Activity On Ethanolic Extract of Solanum Lycopersicum, Pouteria Sapota, Musa Acuminata, And Beta Vulgaris”*** K.Ramanji Reddy\*, Dr.Chandaka Madhu, **Dr. J. Balaji Chandra Mouli**, Dr.B. Jagan Mohan Reddy, Penumala Joshi, Ballavarapu Sharanya, Published Review/Research article in Indo American Journal of Pharmaceutical Sciences (ISSN: 2349–7750) with Impact factor **3.60**
- \* ***“Comparative Study on Phytochemical Screening and Antioxidant Activity on Ethanolic Extract of Musa Acuminata and Mangifera Indica”*** K.Ramanji Reddy\*, Dr.Chandaka Madhu, **Dr. J. Balaji Chandra Mouli**, Dr. B. Jagan Mohan Reddy, Penumala Joshi, Ballavarapu Sharanya Published Review/Research article in Indo American Journal of Pharmaceutical Sciences (ISSN: 2349–7750) with Impact factor **3.60**
- \* ***“Study and optimization of serum fat soluble vitamin concentrations using artificial neural networks in diabetic patients”*** **J. Balaji Chandra Mouli\*** and B. Syamasundar, Head, Department of Chemistry, Acharya Nagarjuna University, Guntur, A.P. India , had accepted by Diabetes Care .
- \* ***“Study and optimization of serum fat soluble vitamin concentrations using artificial neural networks in male HIV patients”*** **J. Balaji Chandra Mouli\*** and B. Syamasundar, Head, Department of Chemistry, Acharya Nagarjuna University, Guntur, A.P. India , in communication to American Journal of Clinical Nutrition.
- \* ***“Monitoring of Serum Iron and Zinc status in pregnant women with rural background”*** **J. Balaji Chandra Mouli\*** and B. Syamasundar, Head, Department of Chemistry, Acharya Nagarjuna University, Guntur, A.P. India , in communication to N. S. C. A. I. R.
- \* ***“Role of Iron & Zinc in Nutrition of Pregnant Women”*** **J. Balaji Chandra Mouli** and B. Syamasundar, Head, Department of Chemistry, Acharya Nagarjuna University, Guntur, A.P. India, in communication to American Journal of Clinical Nutrition.
- \* ***“Optimization of Protease Production from Bacillus lechineformis using Response Surface Methodology”*** V. Prasanthi, **J. Balaji Chandra Mouli** and D. Sri Rami Reddy, Center for Biotechnology, Department of Chemical Engg., Andhra University, Visakhapatnam, A.P., in communication to International Journal of Natural & Engineering Sciences.

#### **BOOKS & BOOK CHAPTERS:**

- ✚ ***“Inhibitors of lignin associated polymers: origin, impact and Control in bioethanol production”*** book chapter submitted and accepted by Springer publications

## CONFERENCES / SEMINARS:

- **Presented paper** “*Microbial Domestic Sewage Treatment for Aquaculture Practices*” at **International Conference on “Innovations and Research advances in Aquaculture, Fisheries and Exploration of Deep Sea Fishing”** organized by KGRL College, Bhimavaram, W.G. Dt., A.P.(2019)
- **Presented paper** “*Oceans for Sustainability of Earth*” at **World Ocean Science Congress-2019** organized by Vignan Bharathi and Andhra University, Visakhapatnam, A.P.(2019)
- **Presented paper** on “*Efficient Degradation of PET- Synthetic Polymer by Ideonella Sakaiensis bacteria*” at **National Seminar on “Recent Trends in Applied Biology”** Adikavi Nannaya University, Rajahmundry, A.P (2018)
- **Presented paper** on “*Microbial Sewage Waste Water Treatment*” at **International Conference on “Environmental Biotechnology – A Promise to a Clean Energy and Green Future”** organized by Department of Chemical Engineering, Andhra University, Visakhapatnam, A.P.(2017)
- **Presented paper** on “*Study on Brodyrhizobial Nitrogen Fixation in Vigna Mongo Sp.*” at **National Seminar on “Plant –Microbial Interaction, Environmental Conservation – Challenges and Strategies”** organized by Department of Botany and Microbiology at Acharya Nagarjuna University, Guntur, A.P.(2017)
- **Presented Paper** on “*Biodiesel by Enzymatic Trans-esterification: A Review*” at **International Conference “AP Science Congress -2016”** held at Siddhartha College, Vijayawada, A.P. (2016)
- **Presented paper** on “*Monitoring of Serum Vitamin Profiles in Hypertension Patients*” at **International Conference “6<sup>th</sup> Indian Youth Science Congress”** held at Acharya Nagarjuna University, Guntur, A.P. (2015)
- **Presented paper** on “*Gold Nano Particle Therapy for Cancer Patients*” at **International Conference on “Genomics and Stem cells”** held at K.B.N. College, Vijayawada, A.P.(2015)
- **Presented paper** on “*Monitoring the Status of Serum Vitamin Samples of HIV Infected Patients*” at **International Conference “102<sup>nd</sup> Indian Science Congress”** held at University of Mumbai, Mumbai. (2015)
- **Presented paper** on “*Study and Analysis of White Spot Disease in Shrimps*” at **International Conference on Marine, Agriculture and Pharma- Biotechnologies “Bio-Andhra -2014”** held at J.N.T.U., Kakinada, A.P. (2014)
- **Presented paper on** “*Screening, Isolation, Characterization of Alkaline Proteases production from soil near Godavari basin*” at **National Conference on “Novel Process Developments**

*for Sustainable Industrial Practice”* held at Sri Venkateswara University, Tirupati, A.P. (2014)

- **Presented paper on “Monitoring of Serum Iron and Zinc status in pregnant women with rural background”** in **International Conference on “Coalescence of Computer and Biotechnology”** held at Andhra University, Visakhapatnam, A.P. (2009)
- **Presented paper on “Role of Vasoactive Amines in Myocardiopathy”** at **National Conference “Clinical Trials and Medical Informatics”** held at Godavari Institute of Engineering and Technology, Rajahmundry, A.P.(2006)
- **Presented paper on “Role of Molecular Probes in rDNA Technology”** at **National Seminar “Recombinant D.N.A. Technology and its impact on Society”** held at Montessori Mahila Kalasala, Vijayawada. A.P.(2004)

### WEBINARS

- **Participate** in International Webinar on "**Present Day Scenario of SARS - Cov-2 - Diagnosis and Therapy**" on 15th October, 2020 organized by Department of Microbiology, Acharya Nagarjuna University.
- **Presented** a model title **“Second Green Revolution for Food Security- Role of Agriculture Technology and IT in the Innovations in Science”** organized by Dr.B.R.Ambedkar University, Srikakulam in association with NRDC, New Delhi Sponsored by LAURUS labs.

### WORKSHOPS

- ✓ **“Resource Person”** for **State level Work shop on “Bio Analytical Techniques”** held at Government College (Autonomous), Rajahmundry, A.P.(2015)
- ✓ **“Chief Resource Person”** for **National Work shop on “Techniques in Molecular Biology & Genetic Engineering”** held at Godavari Institute of Engineering and Technology, Rajahmundry, A.P.

### CO-CONVENER

- ✚ **“Co-Convener”** for **National Seminar on “Recent Trends in Applied Biology”** at Adikavi Nannaya University, Rajahmundry, A.P. (2018)

### ORGANIZING MEMBER

- ✚ **“Organizing member”** for Two day **National Conference on “Emerging Trends in Advanced Biology”** at Adikavi Nannaya University, Rajahmundry, A.P. (2011)
- ✚ **“Organizing member”** for one day **National Wedinar on “Premises and Promises of Pharma and Biotech Sectors”** at Adikavi Nannaya University, Rajahmundry, A.P. (2020)

## FACULTY IMPROVEMENT PROGRAMS

- *Attended “International faculty Development Programme” on “Enhancing digital proficiency-a platform for refining the research and teaching skills” 5 day workshop – cum- Online Webinar Organised by NSS Department Adikavi Nannaya University, Rajamahendravaram.*
- *Attended “Faculty Improvement Program” on “Solar Energy for Science & Engineering Institutions” conducted by M.N.R.E., Govt. of India, at Rajahmundry, A.P.*

## GUEST LECTURES

- ❖ *Guest Lecturer” on “Immunological Techniques” for P.G. & U.G Students at S.K.V.T. College Rajamahendravaram A.P.(2019)*
- ❖ *Guest Lecturer” on “Aspects on r DNA Technology” for P.G. & U.G Students at S.K.V.T. College Rajamahendravaram A.P.(2018)*
- ❖ *“Guest Lecturer” on “Research Methodology” for P.G. & U.G Students at SKSD Mahila Kalasala, Tanuku. A.P.(2018)*
- ❖ *“Guest Lecturer” on “Research Methodology” for U.G Students at CSN P.G. Degree College, Bhimavaram. A.P.(2017)*
- ❖ *“Guest Lecturer” on “Nitrogen Metabolism” for U.G Students at V.R. College, Nellore, A.P. (2016)*
- ❖ *“Guest Lecturer” on “Intermediary Metabolism” for P.G. Students at V.R. College, Nellore, A.P. (2015)*

## KEY NOTE ADRESSES

- \* **Key Note addresses in CONFAB-2017** “A State Level Seminar on Modern and Futuristic Approaches’ in Science and Humanities –Inter Collegiate Competitions” held at CSN P.G. Degree College, Bhimavaram. A.P.
- \* **Key Note addresses in YRL ACADEMIC FESTIVAL-2019** “A State Level Seminar Cum Workshop and on Project Expo –Inter Collegiate Competitions” organized by Science & Commerce Departments held at YRL College of Arts, Science & Technology Samalkot. A.P.

## TRAININGS:

- \* Trained on Physico - Chemical Quality Analysis of Sorghum grain at National Research Center for Sorghum (N.R.C.S) Affiliated to ICAR, Rajendranagar, Hyderabad, A.P.
- \* Trained at SOVEREIGN Fertilizers & Chemicals Limited, Guntur, A.P.

- \* Trained at Startek Laboratories, Hyderabad, A.P.

### **HANDLED:**

U.V-VIS Spectrophotometer, Flame Photometer, KJELDAL Apparatus, U.V Light Chamber, H.P.L.C, L.C.M.S, G.C, G.L.C, M.S, A.A.S, A.E.S, P.C.R, Flow Cytometer, Digital colony Counter and Fermenters.

### **AWARDS:**

- \* ***“Young Scientist Award”***, in International Scientist Awards on Engineering, Science and Medicine” for the year 2021 Organized by VDGOD Professional Association, India.
- \* ***“Best Teacher Awards”*** for the academic years 2005-2006 ; 2006-2007 ; and 2007 -2008 **3 years** at Godavari Institute of Engineering and Technology, Rajahmundry, A.P.
- \* ***“Best Researcher Award”*** for the academic year 2008 -2009 at Godavari Institute of Engineering and Technology, Rajahmundry, A.P.

### **ACHIVEMENTS:**

- ***“Young Scientist Award”*** in International Scientist Awards on Engineering, Science and Medicine”.
- ***“Youngest Doctorate Degree Holder”***, Department of Biochemistry, Acharya Nagarjuna University, Guntur, A.P.
- ***“University Topper”*** at *M.Sc.* Level.
- ***“College Topper”*** at *B.Sc.* Level.
- ***Pre-Doctoral Experience – 7 yrs.***
  - Teaching Experience – 7yrs.
- ***Post-Doctoral Experience – 11yrs.***
  - Teaching & Research Experience – 18yrs.

### **REFERENCE:**

**Prof. B. SYAMASUNDAR**, M.Sc., Ph.D. F.I.C.S.,  
Ex. Vice-Chancellor, F.A.G.E. LONDON  
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