

# CURRICULUM VITAE

**MAMATHA J**

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**OBJECTIVE:** To work in the field of biotechnology in an institution to utilize my skills and abilities that offers scope for personal and professional development. And to provide best of my services to the establishment through my hard work, honesty, potency and dedication.

## **EDUCATIONAL QUALIFICATION:**

- ❖ 2007 M. Phil Biotechnology, Periyar University, Selam, Tamil Nadu.
- ❖ 2015 B.Ed., Bangalore University, Bangalore.
- ❖ 2000-2002- M.Sc., Biotechnology. SRN Adarsh College, Bangalore University, Bangalore.
- ❖ 1997-2000- B.Sc., Chemistry, Botany, Zoology. Jothi Nivas College, Bangalore University, Bangalore.

## **Academic Experience:**

[July 2014 – till date], Associate Professor, Under Graduate Department of Biotechnology, Post Graduate Department of Biotechnology, The Oxford College of Science, ([http://www.theoxford.edu/college\\_of\\_science/biotechnology\\_faculty.htm](http://www.theoxford.edu/college_of_science/biotechnology_faculty.htm)), Bangalore, India.

[July 2010 – August 2014], Associate Professor, Post Graduate Department of Biotechnology, The Oxford College of Science, ([http://www.theoxford.edu/college\\_of\\_science/biotechnology\\_faculty.htm](http://www.theoxford.edu/college_of_science/biotechnology_faculty.htm)), Bangalore, India.

[July 2008 to March 2010] Assistant Professor, Post Graduate Department of Biotechnology, The Oxford College of Science, ([http://www.theoxford.edu/college\\_of\\_science/biotechnology\\_faculty.htm](http://www.theoxford.edu/college_of_science/biotechnology_faculty.htm)) Bangalore,

[July 2006 to March 2008] **Lecturer:** Under graduate & Postgraduate Department of Biotechnology, The Oxford College of Science ([http://www.theoxford.edu/college\\_of\\_science/biotechnology\\_faculty.htm](http://www.theoxford.edu/college_of_science/biotechnology_faculty.htm)), Bangalore,

[June 2003- June 2004]. Lecturer, Department of Biotechnology, BMS College for Women's, Bangalore, India.

[June 2004-June 2005] Lecturer and Coordinator, Department of Biotechnology, Goutam College, Bangalore, India.

[June 2005- June 2006] Lecturer, Department of Biotechnology, BMS College for Women's, Bangalore, India.

### **Research Publications (08)**

1. **Mamatha J**, Suresh V, Vedamurthy A.B, Shilpi B and Shruthi S D (2012). Production of Alpha Amylase from *Aspergillus flavus* under solid state fermentation with optimum conditions. **International Research Journal of Pharmacy**, 3(8), 135-140.
2. **Mamatha J**, Shruthi S D and Vedamurthy A.B (2012). Degradation of phenol by Turnip root enzyme extract. **Journal of Microbiology and Biotechnology Research**, 2(3), 426-430.
3. Debasmita Debnath, Ipsita Sinha, Kumari Khushboo, Vedamurthy AB, **Mamatha J** (2013). The promising and potential role of IVF in cattle and beef industry. **International Journal of Fundamental & Applied Sciences**, Vol. 2, No. 2, 39-41.
4. **Jayapal Mamatha**, Shirur Dakappa Shruti, Pallavi Joshi and Ankala Basappa Vedamurthy (2013). Phytochemical evaluation of extracts from *Alangium lamarckii* thw. **World Journal of Pharmacy**. 1(1),91-98
5. **Mamatha J**, Shruthi SD and Vedamurthy AB (2013) Antibacterial activity of leaf and stem bark extracts from *Alangium lamarckii* thw., **International Science Press, (India)**. Vol.6 No.1 pp.1-5
6. **Mamatha J**, Sudipa Bhadra and Mahesh M (2014) production of streptomycin from *Streptomyces griseus* under solid state fermentation, & its production enhancement by mutation and analysis by HPLC. **World Journal of Pharmacy and Pharmaceutical Sciences**, Volume 3, Issue 8, 907-922
7. Pooja V Kasture., Arti B Tuljapure & **Mamatha J** (2015) Qualitative Improvement of Fruit Juice (*Psidium guajava* L) by using Cellulolytic

Bacteria Isolated from the Gut of *Citrus leafminer* VIBHAVAT-2, ISBN-978-81-929698-1-7- Vol.II.,90-91

8. Pooja V Kasture., Arti B Tuljapure & **Mamatha J** (2016) Isolation of Cellulase Producing Bacteria from Citrus leafminer First Impression BioSciences & Bio Industry Published by College Book House, Publishers & Distrubutors ISBN-9797893819464 ,Vol.I.,105-112.

### **Workshops/ Hands on Training Programs Attended:**

1. Has attended workshop on “DNA Finger Printing technology, Molecular Markers and Bioinformatics” Jointly organized by the department of Biological Sciences, Dayananda Sagar Institutions, Bangalore and Karnataka Science and Technology Academy, Department of Science & Technology, Govt. of Karnataka on 28th February & 1st March **2014**.
2. Attended a Science Academies “LECTURE WORKSHOP ON Enkindle Intelligentsia” organized by Indian National Academy of Sciences and Department of Biosciences –CMR Institute of Management Studies, Bangalore on 22<sup>nd</sup> & 23<sup>rd</sup> January **2014**.
3. Attended Faculty Development Program on “Immuno Molecular Diagnostics” sponsored by Vision Group on Science and Technology. Government of Karnataka at The Oxford College of Science, Bangalore; 22<sup>nd</sup> -25<sup>th</sup> January, **2013**.
4. Has participated in Animal Cell Culture workshop held at Oxford College of Science from 4<sup>th</sup> -6<sup>th</sup> December **2012**., Conducted by Leads Clinical Research & Bio Services Pvt Ltd and Sri Raghavendra Biotechnologies.
5. Participated a workshop “The Leaders” on 29<sup>th</sup> & 30<sup>th</sup> March,**2008**. Conducted by Leaders Academy for Personal Success, at The Oxford College of Engineering, Bangalore.

### **Faculty Orientation Programme/ FDP**

1. FDP on “Biomolecular separation techniques” (BMST) at BMS College of Engineering, Bangalore from 27th Feb. to 3rd Mar. 20th **2017**.
2. Faculty development programme on ‘Effective Implementation of Problem Based Learning in the Academic Curriculum’ at The Oxford College of Science, Bangalore on 8<sup>th</sup> Jan **2011**.
3. Faculty development programme on ‘Resurrecting the Vanishing Art of Lecturing’ at The Oxford College of Science, Bangalore on 29<sup>th</sup> Jan **2011**.

4. Has participated in Faculty Development Programme –on Resurrecting the vanishing art of lecturing held on 29<sup>th</sup> January-**2011** at the the Oxford College of Science, HSR Layout, Bangalore.

5. Participated in a one day Awareness Programme on Women’s Rights held on August 4<sup>th</sup> **2010** at the Oxford College of Science, HSR Layout, Bangalore.

6. Has participated in Faculty orientation Programme – on Effective Teaching held on 24<sup>th</sup> June-**2009** at the Oxford College of Science, HSR Layout, Bangalore.

### **Papers Presented in National /International Conferences/Symposium**

#### **International Conferences/Symposium:(01)**

1. **Mamatha J., Sanjay and Vadamurthy A.B** A Poster presentation on Production of Alpha Amylase from *Aspergillus flavus* under solid state fermentation with optimum conditions. **International Conference** on Exploration of Biotechnology by Student Scholars and Researchers with a theme “ Stimulating the Learners for Research in Biotechnology” conducted by Department of Biotechnology at SIET, Tumkur on 8<sup>th</sup> & 9<sup>th</sup> June 2012. **Awarded best poster.**

#### **National Conferences/Symposium(12)**

1. Pooja V Kasture., Arti B Tuljapure & **Mamatha J** . Oral presentation on Qualitative Improvement of Fruit Juice (*Psidium guajava L*) by using Cellulolytic Bacteria Isolated from the Gut of *Citrus leafminer* ,Emerging Trends in BioSciences & Bio Industry , S.C.E.T.B.S & B.T K.L.E. Society’s Nijalingappa College, **20th February 2016**

2. Pooja V Kasture., Arti B Tuljapure & **Mamatha J** . Oral presentation on Isolation of Cellulase Producing Bacteria from *Citrus leafmine*. “Sustainability-Key to future Business, Environmental, Linguistic, Scientific & technological fields Reddy Jana Sangha First Grade Collge, **15th October -2015.**

3. Ramya L, Aswini E, Sevanthi B.R, Amir, Rakeshlal & **Mamatha J**. A poster presentation on Anti cancerous activity of *Alangium lamarckii* leaf by methanol extract against c-6"7th Annual conference of The Karnataka Science & Technology Academy , The Oxford College of Science, Bangalore, Karnataka, India. 5th -6th **February 2015**

4. **Mamatha J**, Sharon Rashmi., Shagun Dubey., Srikruthi N., Oinam Rakeshlal Singh ., Chetana S. A poster presentation on Comparative study of cytotoxicity effect of methonalic leaf extract of *Alangium lamarckii* on in-vitro c-6 (brain

galioma) and mcf-7(breast carcinoma cell lines., **Bangalore India Bio 2015** Hotel Lalith Asok 9-11th **February -2015**.

5. Sudipa Bhadra., Amrutha C.H., and **Mamatha J.** Oral presentation on Production of Streptomycin From *Streptomyces griseus* by Solid State Fermentation & Its Production Enhancement by Mutation & Analysis by HPLC, at JNANARJANA 2K14, 6th National Science Conference on “Beyond the frontiers in Science & Technology. The Oxford College of Science, Bangalore 560102, Karnataka, India. **27<sup>th</sup> & 28<sup>th</sup> March 2014**.

6. Prity Lata., Joy Hoskeri H and **Mamatha J.** Oral presentation on Antiquorum Sensing Activity of Quercetin against Multidrug Resistant *Pseudomonas Aeruginosa* at JNANARJANA 2K14, 6th National Science Conference on “Beyond the frontiers in Science & Technology. The Oxford College of Science, Bangalore 560102, Karnataka, India. **27<sup>th</sup> & 28<sup>th</sup> March 2014**.

7. Pallavi Joshi., **Mamatha J** and Vedamurthy A. B. A poster presentation on Influence of Abiotic and Biotic Elicitor on Accumulation of Diosgenin in Tissue Culture of *Lycium barbarum*" at 5th Annual KSTA Conference **National Conference on “SCIENCE AND TECHNOLOGY FOR SOCIETAL TRANSFORMATION”** organized by Karnataka Science and Technology Academy and Dayananda Sagar, Bangalore on 19<sup>th</sup> and 20<sup>th</sup> **December 2012**.

8. **Mamatha J**, Anjana Devi., Ankita Bisht., Vandana and Vedamurthy AB .A Oral presentation on Antibacterial activity of Leaf extract from *Alangium lamarkii*. National conference at Administrative Management College, as a part of WORLD SCIENCE DAY CELEBERATION 14th **March 2013**.

9. **Mamatha J**, Anjana Devi., Ankita Bisht., Vandana and Vedamurthy AB(2013). A Poster presentation on Antibacterial activity of stem bark extract from *Alangium lamarkii*. National conference on Biomedical spheres of Life and Life Sciences. CMR Institute of Management studies, Bangalore, 6th **March 2013**.

10. **Mamatha J**, Pallavi Joshi, Roshina Devi and Vedamurthy A.B (2012). A Poster presentation on Phytochemical screening and antibacterial activity of *Alangium lamarckii* Thw National Level conference on computational Biology, Pharmaceuticals and Life Sciences (NCCBL-2). Maharani Lakshmi Ammanni College for Woman, Bangalore, 23-24th **November 2012**

11. Debasmitha Debnath, Ipsita Sinha, Kumari Khusbhoo, Vedamurthy A.B and **Mamatha J** (2012). A Oral presentation on “The promosing and potential role of IVF in cattle and beef industry”, National Level conference on computational

Biology, Pharmaceuticals and Life Sciences (NCCBL-2). Maharani Lakshmi Ammanni College for Women, Bangalore, November 23-24<sup>th</sup> 2012. **Selected as one of the top best article and published in International Journal.**

12. **Mamatha J.**, Sateesh M.K. and Vedamurthy A.B (2008)..A Poster presentation on *In vitro* regeneration and biotechnological improvement of *Vigna radiate* (L.) R. Wilczek for salt tolerance. National symposium on role of life sciences in human welfare: 21-23 February 2008. Department of Biotechnology and Zoology, V.V. Pura College of Sciences, Bangalore. **Awarded best poster**

### **Conferences/Symposium attended**

#### **International Conferences:**

1. Participated as a Delegate in **International Conference at 8<sup>th</sup> Bangalore India Bio 2016** Hotel Lalith Asok 3-4<sup>th</sup> March-2016.
2. Participated as a Delegate in **International Conference at Bangalore India Bio 2015** Hotel Lalith Asok 9-11<sup>th</sup> February -2015.
3. Attended the **International Conference** on Exploration of Biotechnology by Student Scholars and Researchers with a theme “ Stimulating the Learners for Research in Biotechnology” conducted by Department of Biotechnology at SIET, Tumkur on 8<sup>th</sup> & 9<sup>th</sup> June **2012**.
4. Participated in the **Indo- French Symposium** on “Recent Trends in Brain Tumor Treatment and Research”. Organized by Department of Human genetics, National Institute of Mental Health and Neuro Sciences, Bangalore on 15<sup>th</sup> June **2010**

#### **National Conferences:**

1. Attended a UGC Sponsored State level conference on “Emerging Trends in BioSciences & Bio Industry” , S.C.E.T.B.S & B.T K.L.E. Society’s Nijalingappa College, **20<sup>th</sup> February 2016**
2. Was an active member of organizing committee during “JNANARJANA 2K14” 6<sup>th</sup> National **Conference** on Beyond the frontiers in Science & Technology held on 27<sup>th</sup> & 28<sup>th</sup> of March **2014** at The Oxford College of Science, HSR Layout, Bangalore.,
3. Participated in 6<sup>th</sup> National Science Conference on “Beyond the frontiers in Science & Technology. JNANARJANA **2K14**, The Oxford College of Science, Bangalore 560102, Karnataka, India.27<sup>th</sup> & 28<sup>th</sup> **March 2014**.
4. Attended a Science Academies “LECTURE WORKSHOP ON RECENT ADVANCES IN BIOLOGY” organized by Indian National Academy of Sciences and Christ University, Bangalore on 31<sup>st</sup> January & 1<sup>st</sup> February **2014**.

5. Has participated in the lecture workshop on “Research Proposal Writing” organized by Department of Biotechnology, The Oxford College of Science in association with Science and Engineering Research Board (SERB), Department of Science and Technology (DST) New Delhi on 31<sup>st</sup> October **2014**.
6. Attended a Science Academies “LECTURE WORKSHOP ON Enkindle Intelligentsia” organized by Indian National Academy of Sciences and Department of Biosciences –CMR Institute of Management Studies, Bangalore on 22<sup>nd</sup> & 23<sup>rd</sup> January **2014**.
7. Attended a UGC Sponsored National Conference on Biotechnological Approaches in Medicinal and Aromatic Plant Research held on 21<sup>st</sup> and 22<sup>nd</sup> March **2013**. Organized by the Department of Botany, Maharani’s Science College for Women, Bangalore.
8. Indo-UK Seminar on Opportunities in Biotechnology organized by Department of Microbiology & Biotechnology, Bangalore University in association with British Council, Chennai on 28<sup>th</sup> September **2013**.
9. National conference on Biomedical spheres of Life and Life Sciences. CMR Institute of Management studies, Bangalore, 6<sup>th</sup> March 2013
10. Attended a 5th Annual KSTA Conference **National Conference** on “SCIENCE AND TECHNOLOGY FOR SOCIETAL TRANSFORMATION” organized by Karnataka Science and Technology Academy and Dayananda Sagar, Bangalore on 19<sup>th</sup> and 20<sup>th</sup> December **2012**.
11. Attended a **National Conference** “JNANARJANA 2012” on BIOACTIVE COMPOUNDS AND THERAPEUTICS, organized by The Oxford College of Science, Bangalore on 27<sup>th</sup> and 28<sup>th</sup> February **2012**.
12. National Level conference on computational Biology, Pharmaceuticals and Life Sciences (NCCBL-2). Maharani Lakshmi Ammanni College for Women, Bangalore, November 23-24<sup>th</sup> **2012**.
13. Attended a **National Conference** on “RECENT ADVANCES IN HEALTH, AGRICULTURE AND ENVIRONMENTAL BIOTECHNOLOGY” organized by M. S. Ramaiah Institute of Technology, Bangalore on 11-13<sup>th</sup> April **2012**.
14. Attended a **National Conference** on “CHEMISTRY, BIOTECHNOLOGY & HEALTHCARE- AN INTERFACE”, organized by Reva Institute of Science and Management, Bangalore on 24<sup>th</sup> and 25<sup>th</sup> November **2011**.
15. Lecture series on Advanced Biotechnology at The Oxford College of Science, Bangalore, on 19th October **2011**.

16. Lecture workshop on Biotechnological aspects of environmental degradation and protection, at The Oxford College of Science, Bangalore, 13-14<sup>th</sup> October **2011**.

17. Jnanarjana-2010 a National symposium on Molecular innovations in food Processing and Food safety management and awareness programme on career prospectus and Business opportunities in food processing. 5-6<sup>th</sup> April **2010**.

18. Has participated in BioZENITH-2010, a National level Intercollegiate BioSciences Symposium organized by the Department of Life Sciences, Reva Institute of Science and Management, Bangalore on 19<sup>th</sup> and 20<sup>th</sup> March **2010**.

19. Has participated in a one day seminar on Adolescence Problems-way in / way out held on 23<sup>rd</sup> January **2010** at The Oxford College of Science, HSR Layout, Bangalore.

20. Confluence-2009. A National symposium conducted by Indian Academy Group of Institution, Bangalore. 3-4<sup>th</sup> March **2009**.

21. Has participated in the National Conference-OxfordBio-2009 on Innovations & Emerging Trends in Biotechnology held on 2<sup>nd</sup> & 3<sup>rd</sup> April **2009**. DEPARTMENT OF BIOTECHNOLOGY, THE OXFORD COLLEGE OF ENGINEERING., BANGALORE

22. A National level symposium on impact of climate change on vector borne diseases- on the occasion of World Malaria day, Janardhana Foundation, Bangalore. 25<sup>th</sup> -26<sup>th</sup> April **2008**.

23. Two days National Symposium Confluence2008 where ideas emerge. Conducted by Indian Academy Group of Institution, Bangalore. 27<sup>th</sup> & 29<sup>th</sup> February **2008**.

24. Attended a National symposium on role of life sciences in human welfare: 21-23 February **2008**. Department of Biotechnology and Zoology, V.V. Pura College of Sciences, Bangalore

25. National Seminar on National Knowledge Commission's Recommendations on Higher Education, Jnana Jyothi Auditorium, Central College, Bangalore. 19-20<sup>th</sup> September **2007**.

### **Student Projects Guided:**

1. Production of Alpha Amylase from *Aspergillus flavus* under solid state fermentation with optimum conditions.
2. Degradation of phenol by Turnip root enzyme extract.
3. *In vitro* antioxidant activity, anthelmintic activity, anti-inflammatory activity and anti diabetic activity of alcoholic leaf extracts of *Alangium lamarkii* Thwaites.



4. Enhancement of Serratiopeptidase production by *Serratia marcescens* isolated from sewage sludge and determination of its therapeutic potential.
5. Mutation analysis of p16 gene in human glioma by SSCP analysis.
6. Production of Streptomycin from *Streptomyces Griseus* by Solid State Fermentation & Its Production Enhancement by Mutation & Analysis by HPLC.
7. Antiquorum Sensing Activity of Quercetin against Multidrug Resistant *Pseudomonas Aeruginosa*.
8. Evaluation of anti-bacterial and anti cancerous activity of *Alangium lamarckii* leaf extract against c-6.
9. Evaluation of anti-bacterial and anti cancerous activity of *Alangium lamarckii* leaf extract against mcf-7 cell lines and synthesis of Ag- Nanoparticle from *A.lamarckii*.
10. “Green Synthesis of Multidrug Resistant Bactericidal and Anti- Cancer Tungsten Nanoparticle Using *Zingiber officinale*”.

### **Awards\ Achievements:**

- 1. Best Poster Presentation Award** on Production of Alpha Amylase from *Aspergillus flavus* under solid state fermentation with optimum conditions. “**International Conference** on Exploration of Biotechnology by Student Scholars and Researchers with a theme “ Stimulating the Learners for Research in Biotechnology” conducted by Department of Biotechnology at SIET, Tumkur on 8<sup>th</sup> & 9<sup>th</sup> June 2012.
- 2. The Best Research Article Award** on The promising and potential role of IVF in cattle and beef industry”, National Level conference on computational Biology, Pharmaceuticals and Life Sciences (NCCBL-2), MLACW, November 23-24<sup>th</sup> 2012.
- 3. Best Poster Presentation Award** on *In vitro* regeneration and biotechnological improvement of *Vigna radiate* (L.) R. Wilczek for salt tolerance. **National symposium** on role of life sciences in human welfare: 21-23 February 2008.
- 4. Assistance Custodian (UG): Bangalore University 2016.**
- 5.UG External Examiner:** Department of Biotechnology, Bangalore University, Christ University, CMR University and Rai University.
- 6. PG External Examiner:** Department of Biotechnology, Bangalore University,
- 7. Question paper Setter and Question paper scrutiny** for M.Sc and B.Sc., Biotechnology courses- CMR University and Christ University, Govt. Science College.

- 8. Treasurer and Member of BIOVISTAS** (half yearly Biotechnology magazine from The Oxford College of Science, Bangalore-560078).

### **Personal Details**

**Name** : Mamatha J

**Father's Name** : Jayapal N.

**Date of Birth** : July 1980.

**Nationality** : Indian

**Religion** : Hindu

**Marital Status** : Married

**Languages Known** : **Telugu**, English, Kannada, Tamil.

**Permanent Address**: 19<sup>th</sup> Cross, 20<sup>th</sup> A main, Behind Kalpavrukha Apartments,  
S.M.S. Layout., J.P Nagar 5<sup>th</sup> Phase, Bangalore.

**Present Address** : Department of Biotechnology,  
The Oxford College of Science,  
No. 32, 19th main, 17th 'B' Cross,  
Sector –IV, HSR Layout, Bangalore - 560 102,  
State: Karnataka, Country: India

### **Declaration**

I hereby declare that the above-mentioned information is true to best of my knowledge and belief.

(MAMATHA J.)