

## CURRICULUM VITAE

**D. RAVI, M.Sc., M.Phil. PGDIT, Ph.D., FSAB**

**Permanent Address:**

12/53, Jawarharlal Nehru street,  
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Coimbatore – 641 046  
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**Official Address:**

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**Total Experience:**

Teaching & Research experience: 19 years

Abroad research experience : 4 years

Industrial experience : 5 years

S.No	Position Held	Duration	Organization
1.	Assistant Professor, Department of Plant Biology & Biotechnology	Since 7 <sup>th</sup> July, 2009 Onwards	Government Arts College, Coimbatore – 18
2.	Lecturer (SG) & Head, Department of Microbiology & Bioinformatics	1 <sup>st</sup> July, 2006 – 6 <sup>th</sup> July, 2009	CMS College of Science & Commerce, Coimbatore -49
3.	Lecturer (SS), Department of Biotechnology & Bioinformatics	May, 2004 – 30 <sup>th</sup> June, 2006	CMS College of Science & Commerce, Coimbatore -49
4.	Assistant Professor, Department of Microbiology & Biotechnology	June, 1999 – May, 2004	Dr. GRD College of Arts & Science, Coimbatore -14
5.	Lectureship, Department of Biological Science	Oct. 1995 – May, 1999	University of Warwick, Coventry, UK
6.	Scientist cum R & D Officer, Agro forestry & Biotechnology	Nov. 1990 – Sep. 1995	South India Viscose Ltd, Coimbatore
7.	Senior Research Fellow, School of Biological Sciences	Apr. 1989 – Dec. 1990	CSIR* & Bharathiar University, Coimbatore
8.	Junior Research Fellow, school of Biological Sciences	Apr 1988 – Mar. 1989	CSIR*- Bharathiar University, Coimbatore

\*Teaching to the full time post graduates & Research Scholar in Biological Sciences,  
Bharathiar University, Coimbatore.

4. Qualification Approval Ref. No: **8152 / A2/2002 – 1999 & 9933/ A3 / 2003**
5. Guided 46 M.Phil student thesis & presently guiding 3 M.Phil student thesis
6. Guided more than 60 M.Sc Student Projects & presently guided 2 M.Sc. student projects.
7. Bharathiar University Examiner for UG/PG & M.Phil Degrees/member of result passing board
8. Undertaken UGC, DBT & DST Projects
9. Apart from teaching & research work Involved in Administration works and Institute Development Activities.
10. Attended orientation and refresher courses by UGC & INTEL
11. As an Observer/invigilator in all India Engineering Entrance Exam (AIEEE) conducted by Central Board Secondary Education.
12. Examiner and Question paper setter for M.Sc Biotech/Bio-informatics course at Karunya University, Nehru College of arts and science, TNAU, Kongunadu College of arts and science, Anna University-Chennai and etc.
13. Recognized as a research guide in Bharathiar University, Bharathidasan University, Annamalai University, Periyar University and Manonmaniam Sundaranar University.
14. Inspection & Evaluation committee member for continues / permanent approval of new UG & PG courses like microbiological biotechnology, Biotechnology & Bioinformatics

### **Academic Qualification:**

<b>Name of the Degree</b>	<b>Name of the University</b>	<b>Year of passing</b>	<b>Area of Specialization</b>	<b>% of Marks</b>
B.Sc. Botany	P.S.G. College of Arts & Science, Bharathiar University, Coimbatore	1986	Botany, Zoology, Biochemistry & Biostatistics	74.9 % ( First Rank)
M.Sc. Botany	Bharathiar University, Coimbatore	1988	Microbial Technology	68 % ( Third Rank)
M. Phill. Botany	Bharathiar University, Coimbatore	1989	Microbial Biotechnology	Recommended
PGDIT	Walsal Technical College, Coventry University, UK	1999	Information Technology	94 % with distinction
Ph. D (Botany)	Coventry University, UK	1999	Microbial Biotechnology & Tissue culture	Commended

**Academic Distinctions:**

- 1 First Rank from PSG College of Arts & Science College – 1986
- 2 Third Rank from Bharathiar University – 1988
- 3 Awarded merit scholarship to undergo Information Technology Programme at JBC Computer Ltd., Coventry, United Kingdom.
- 4 Awarded JRF and SRF from CSIR
- 5 International awards for outstanding research / Lifetime Achievements (2008).
- 6 Life time International research achiever by the International biographical research centre, UK and American biographical research centre, Washington.D.C., USA for the hydroponic system and production of growth by hormones by biofertilizers. (Oct/Sep, 2007).
- 7 Academic and Industrial collaboration work with Sai Bioscience Research Ltd., (2006 – 2011) and Helini Biomolecules (2008 – 2013)– MoU agreement signed towards students Training & placements. And jointly conducting seminars/conferences.

**Area of Specialization:**

5. Agro forestry & Plant Biotechnology / Plant tissue culture
6. Industrial Biotechnology - Bioprocessing & Fermentation technology
7. Environmental and Agricultural Biotechnology
8. Biodiversity and Natural Resource Management
9. Food processing and Preservation technology
10. Recombinant DNA Technology (rDNA)
11. Research Methodology and Bioinstrumentation

**Research Experience:**

- Δ Soil Microbiology in Agro forestry under different climatic conditions, 1991 – 1995, 1999 – Bharathiar University, Coimbatore
- E Population studies of Actinomycetes & Antibiotic products in different types of soils, 1995 – 1999, University of Warwick, United Kingdom.
- Φ Microbial Degradation in Agro forestry Plantations, 1988 – 1989. Thesis, PSG College of Arts & Science College, Coimbatore.

## Publications (Numbers only):

**Books: 2**

*Book Chapters published: 2*

*Research papers: 48 + 5 Communicated*

*Report: 2*

*General articles: 08*

*Patents: Process & product patent: Hepatitis diagnostic – strip reading technique [under processing]*

## Editorial Board Memberships in reputed journals:

- 1 Editorial member in International journal of Research in Biology
- 2 Editorial member in Academic journals
- 3 Editorial member in Advances in Pharmacy and Pharmacology

## List of other awards received

Year	Award title	Awarded by
2014	Honorary in Professorship in Biological science	International biographical research centre, UK
2012	Bharath Jyothi Award	India International Friendship society, India
2012	Certificate of Excellency	India International Friendship society
2012	Shiksha Rattan Puraskar	India International Friendship society
2011	Fellow award	Society for Applied Biotechnology
2011	Man of the year	American biographical Research Institute, USA
2008	Best Professional award	Association of International Biographical Research Institute, USA
2008	Lifetime Research Achievement Award	International biographical research centre, UK and American Biographical Research Institute, Washington. D.C., USA
1998	Merit scholarship	Information Technology Programme at JBC Computer Ltd., Coventry, United Kingdom.
1989	Senior Research Fellow	CSIR, India
1988	Junior Research Fellow	CSIR, India
1988	Third Rank (For M.Sc)	Bharathiar University, Coimbatore, India
1986	First Rank (For B.Sc)	PSG College of Arts & Sciences, Coimbatore, India

Received **Bharath Jyothi Award** by India International Friendship Society, New Delhi.

**Certificate of Excellency** for Meritorious services, Outstanding Performance and Remarkable Role in research and education Presented by Dr. Bhishma Narain Singh, Former Governor of

Tamilnadu & Assam on 9<sup>th</sup> Feb, 2013, New Delhi. Award given by India International Friendship Society, New Delhi.

**Shiksha Rattan Puraskar** for Outstanding services Achievements & Contributions to the society, Presented by Dr. Bishma Narain Singh, Former Governor of Tamilnadu & Assam on 9<sup>th</sup> Feb, 2013, New Delhi. Award given by India International Friendship Society, New Delhi.

**C Any other relevant information you may like to furnish:**

Continuous good academic record

Sincere at work

Good at teamwork

Had worked as a student counselor and in the administration level

Serving in the academic board and examination board of various universities and autonomous colleges in Tamilnadu.

Guided Research Projects on the following topics:

Ethanol / Alcohol production by using Agave, Fruit waste and Banana pulp

Free Nitrogen fixers in Monoculture forest

Vermicomposting by using Agricultural waste and Poultry waste

Probiotic in aquaculture

**II. Membership in Professional Bodies:**

**Life member in Probiotic Association of India**

**Fellow member in Society for Applied Biotechnology, India**

Life member in association of British Scholars (ABS), British Council and the British High Commission, India

Alumni of P.S.G College of Arts and Science College, Coimbatore

Biannual member in Industrial Pollution and Control Technologies (IPACT), CE – JNTU

Annual Member in Biofertilizer group., Azolla and Cyanobacterial Biofertilizers, TNAU, Coimbatore

Member of Botanical Association

**III.**

7. Attended National and International level symposiums and conferences

8. Central Access Network's certificate of credit award in a learning programme, national open college network, Coventry council, United Kingdom, 1997

2. Attended leadership training programme, PSG college of Technology, 1995
3. Attended various camps as NCC sergeant (3 years)
4. National Social Service
5. Cricket & Football player
6. Athletics – Participated in Mini Marathon race

**Initiated the innovative programmes/ courses with the support of UGC/DBT. NewDelhi.**

PG courses: M.Sc Applied Microbiology  
 M.Sc Bioinformatics (DBT)  
 PG Diploma in Genomics  
 PG Diploma in Dairy Science  
 Diploma in Industrial Biotechnology  
 DST-FIST Programme Coordinator (2012 - 2017)

**International visits on Research and Academic Assignments**

US - University San Antonio, Nov. 2012

- 📄 Singapore – August 2008 to September 2008
- 📄 Malaysia - August 2008 – September 2008
- UK – Warwick University (October 1995 to 1999)
  - 📁 Walsall Common technical College
  - 📄 Coventry technical College

<b>Sponsoring Agency</b>	<b>Title of the Project</b>	<b>Amount of Grant</b>	<b>Period</b>	<b>Principle/Co investigators (if any)</b>
UGC	Influence of plant source Prebiotics along with selected Probiotics in managing aquaculture diseases	11.21 lakhs	June 2015 - August 2018	Principle Investigator
TANSCHE Minor Research Project	Extraction & Identification of prebiotics from plant sources and its Probiotic specificity & in –vitro antagonistic test against the pathogen	1.5 Lakh	2015 – 2016 (Completed)	Principle Investigator
DST	Adapting a suitable technology for the re -	Rs. 42,65,000	2011 – 2015 (Completed)	Principle Investigator

	cycling of the Paper pulp And Textile dye industry wastes			
UGC	Effect of probiotic on <i>Aeromonas hydrophilla</i> in aquaculture practices	Rs. 10,63,010	2013-2015 (Completed)	Principle Investigator
DBT	Impact of Probiotics on Ulcerative Colitis	Rs. 18,70,000	2011 – 2014 (Completed)	Principle Investigator
UGC	Developing the probiotic consortium to prevent and control the diseases in aquaculture	Rs. 11, 66, 050	Apr. 2010 - March 2013 (Completed)	Principle Investigator
DBT	Cultivation of Mushroom for the Self Help Group – Income Generating Scheme	Rs. 12,00,000	Sep 2001 - Aug 2003 (Completed)	Principle Investigator
DST	Vermicomposting	Rs. 10,00,000	Sep 2002 – Oct04	Co – Investigator
DBT	Sericulture cultivation for SHG - women's	Rs. 15,00,000 + Rs. 8,00,000	Sep 2003 – Oct 2006 Oct 2006 – Sep 2008	Principle Investigator
DST	Cultivation of Mulberry plants and rearing of cocoons among the rural community at Yerkad District as a revenue generating project for the low income group families.	Rs. 33,00,000	Oct 2003 – Sep2008	Principle Investigator
DBT	Cultivation of Medicinal Plants	Rs. 9,00,000	Oct 1999 – Sep 2002	Principle Investigator

#### Industrial Collaborative works carried out:

Organization	Title of Project	Amount of Grant	Period	Principle Investigators (if any)
KGISL	Stem Cell Research on Storage software Development	Rs. 9,00,000	July 2005 – May 2008	Principle Investigator
Sai Bioscience Research Ltd	Industrial relation and Biological Database Development	Rs. 2,75,000	2005 – 2008	Principle Investigator
Helini Biomolecules	Biomolecules study & Drug Designing	Rs. 3,90,000	2004 – 2007	Principle Investigator
Bioinformatics Institute of India	Molecular modeling and Drug designing	Rs. 5,00,000	2007 – 2009	Principle Investigator

### Industrial Experience/Interaction: 5 years

Organization	Nature of work	Period
South India Viscose Industries	Junior Scientist – Research and Development, Department of Biotechnology and Agro forestry	Nov 1990 – Sep 1995

### Publications:

#### 11. BOOKS PUBLISHED:

Laboratory Manual for UG Microbiology course, 2002, Kalaikathir Press, Coimbatore, Tamilnadu  
Laboratory Manual for PG Microbiology course, 2002, Kalaikathir Press, Coimbatore, Tamilnadu

#### Book chapters

1. **Ravi. D**, Usha. G, Parthasarathy. R, DivyaLekshmi R. B, In-vitro comparative study of two selected Probiotics against respiratory tract pathogens and analyzing its efficiency with the supplementation of Prebiotics; **Book title:** Probiotics in Sustainable Food Production: Current Status and Future Prospects, Edited by Dr. A. Ramanathan & Dr. T. Senthilvel, 2013, Bonfring publications, ISBN: 978 – 93 – 82338 – 47 -5
2. Saranya. **R.**, **Ravi. D.**, Vijayabharathi. V.; Extraction of astaxanthin from marine source by using *lactobacillus spp.* Through fermentation technique, **Book title:** Probiotics in Sustainable Food Production: Current Status and Future Prospects, Edited by Dr. A. Ramanathan & Dr. T. Senthilvel, 2013, Bonfring publications, ISBN: 978 – 93 – 82338 – 47 -5
2. Santhi. S, **D. Ravi**, R. Parthasarathy and Vijayabharathi. V, Homology modeling of receptor kinase (serk) enzyme from embryogenesis of endosperms, National confenece on Biorevolution - A Promising Strategy, Sri Krishna Arts and Science college, Coimbatore, March, 2013
3. Anisha V, **D. Ravi**, Parthasarathy and Vijayabharathi. V, Targetting the response regulator LuxO in *Vibrio cholera* quorum sensing mechanism: A promising approach to regulate virulence and biofilm formation, National conference on Biorevolution - A Promising Strategy, Sri Krishna Arts and Science college, Coimbatore, March, 2013

### Paper publication

#### Recent publications

- 1 Radha S.R and **D. Ravi** . *In silico* analysis of the aqueous bark extracts of *Crateva magna* Lour. (DC.) for docking analysis of the compound 14-hydroxy-12-abietene-7-one, International Journal of Botany Studies , 2018; 3(1) : 25-28.
1. Radha S.R, **D. Ravi** and Hiran mai Yadav. Antiurolithiatic activity of aqueous bark extract of *Crateva magna* Lour. (Dc). Int. J. Res. Ayurveda Pharm. 2017; 8(1 2):271-278



5. Radha S.R and **D. Ravi** . HPTLC finger printing analysis of the aqueous bark extract of *Crateva magna* Lour. (dc.) For terpenoid content. World journal of Pharmacy and Pharmaceutical sciences,2017; 6(7): 1-7.  
 J.Sumitha, T.Devi and **D. Ravi**. Comparative study on Gene Expression for Detecting Diseases Using Optimized Algorithm. International Journal of Human Genetics, 2017 ; 17(1) : 38-42.  
 M. Durga Devi and **D. Ravi**. Growth Performance of *Vigna radiata* (L.) R. Wilezek Under Hydroponic system. International Journal of Applied and Pure Science and Agriculture, 2017 :59-67.
6. M. Kavitha , Rajeshwari and **Ravi**. Antidiabetic activity of *Asystasia gangetica* (L) T. Anderson flower extract in Streptozotocin induced Diabetic rats. International Journal of Pharmacy and Pharmaceutical sciences , 2016: 8(8) : 79-84.
8. S.R. Radha and **Ravi D** . Evaluation of enzymatic antioxidant potential of *Crateva magna* Lour.(DC.) . International Journal of Pharmacy Research, Accepted for Publication

### **(Last five years publications)**

10. **Ravi D.**, Divya Lekshmi R. B., Vijayabharathi V., Parthasarathy R, Study on Antideterioration Properties from selected Plant Based Dyes; Asian Journal of Research in Chemistry; Volume 08, Issue 03, March, 2015
11. Suganya A, Jegadeeshkumar D, and **Ravi D**, Antibacterial activity of Fruit extracts of *Syzygium cumini* against Extended Spectrum  $\beta$ -Lactamase producing Diarrheal isolates of *E.coli*, International Journal of Advances in Interdisciplinary Research, 2014, Vol. I: Issue 11: Pages: 13-16
12. A.Suganya, D.Jegadeeshkumar and **D. Ravi**, Evaluation of antimicrobial activity of *Solanum xanthocarpum* against *Betalactamase* and *Biofilm* producing microorganisms, International Journal of Novel Trends in Pharmaceutical Sciences, Volume 4: Number 6: Dec, 2014
13. Kavitha S, **Ravi D**, Vijayabharathi V, Parthasarathy R, Rajeshwari S. Blood Glucose Lowering Potential of Chinese Violet (*Asystasia gangetica* (L.) T. Anderson) in Normal and Streptozotocin Induced Diabetic Rats. Research Journal of Pharmacognosy and Phytochemistry. 6(4): 2014,pp. 170-175
14. **D. Ravi**, R.Parthasarathy, V. Vijayabharathi and S Suresh. Effect of Textile Dye Effluent on Soybean Crop. Journal of Pharmaceutical, Chemical and Biological Sciences. ISSN: 2348-7658 Jun-August 2014; 2(2):111-117.
15. **D. Ravi**, R.Parthasarathy, V. Vijayabharathi and S Suresh. Effect of paper pulp Effluent on Soybean Crop. Journal of Agricultural Science. ISSN: 2348-7658 Jun-August 2014; 2(2):111-117
16. **D Ravi**, R B Divya Lekshmi, V Vijayabharathi1, R Parthasarathy Characteristic Analysis of Microencapsulated-cum-Cross linked Natural Dyed Fabrics. Journal of Pharmaceutical, Chemical and Biological Sciences.ISSN: 2348-7658, Jun-August 2014; 2(2):150-157.
17. Santhi. S **Ravi D**, R. Parthasarathy and V. Vijayabharathi. Homology modeling of receptorKinase (serk) enzyme from Embryogenesis of endosperms. International Conference on Intelligent Computing Applications. 2014. 978-1-4799-3966-4/14.
18. **Ravi D**, Sathish G, Revathi M , Parathasarathy R. Bioethanol Production from Mutant Strains of *Saccharomyces Cerevisae* Using Sugarcane Juice as A Substrate. Int. J. Pharmacol. Bio. Sci. Vol. 8 (1) 2014

26. **Ravi. D**, Sathish. G, Revathi. M Surveillance of Vitamin D Level Among the Ambulatory Patients and Suggestion for Remedial Measures. *Int. J. Pharmacol. Bio. Sci.* 2014. Vol. 8 (2) pp 45-50.
27. Gangadevi.S , **D.Ravi**. Anatomical salient features of *schefflera stellata* (foster) with reference to leaf ontogeny. *International Journal of Advanced Research* (2014), Vol. 2, Issue 4, 437-446
28. **Ravi D**, Parthasarathy R, Muthezhilan R & Vijayabharathi V. The Role of Probiotic Bacteria on Growth And Disease Management Of In Catla Catla (Hamilton, 1822) *International Journal of Agricultural Science and Research (IJASR)*, Vol. 3, Issue 4, Oct, 2013, pp.121-132, ISSN 2250-0057.
29. **Ravi D**, Usha G, Parthasarathy R. Microencapsulation technique for selected probiotics and prebiotics. 2013. *Malaysian Journal of Science* 32 (2): 33-38.
30. **D. Ravi**, S. Rajamohan, R. Parthasarathy, V. Vijayabharathi. Effect of Raw and Treated Dye Industrial Effluent on Pulse Crop. *Indian Journal of Applied Research*. 2013 Volume 3; Issue: 11 Nov ISSN - 2249-555X.
31. **Ravi D**, Saranya R. and Parthasarathy R. Emphasizing the impact of light source for the production of Astaxanthin from *Haematococcus pluvialis* augmentation. *Int J Pharm Bio Sci* 2014 Jan; 5(1): (B) 1191 – 1197.
32. **Ravi. D.**, Priyadharshini. M., Vijayabharathi.V. Bioaccumulation and characterization of titanium nanoparticle containing *aspergillus wentii* biomass as a challenging photocatalysts. *International Journal of Advanced Research* (2013), Volume 1, Issue 10, 171-180.
33. **Ravi D**, Sathish S, Parthasarathy R, Priyadharshini M, Revathy M. Synthesis and characterization of silver nanoparticles from *andrographis paniculata* (linn.) and it's cytotoxicity against sheep's bone marrow. *Cells. International Journal of Biological & Pharmaceutical Research*. 2013; 4(12): 1222-1228.
34. Divya lekshmi R. B & **Ravi D**. Extraction of natural dyes from selected plant sources and its application in fabrics. *International Journal of Textile and Fashion Technology*. Vol. 3, Issue 2, Jun 2013, 53-60.
35. Divya Lekshmi R.B., **Ravi D.**, Parthasarathy R.B, V. Vijayabharathi. A Study on Antimicrobial Properties of Natural Dye from Plant Source. *Journal of Antimicrobials*.128: 2013:198-205.
36. Priyadharshini. M., **Ravi. D.**, Parthasarathy. R., Swaminathan. K. Isolation And Characterization Of Titanium Nanoparticle Tolerant And Bioaccumulating *Aspergillus wentii*. *International Standard Serial Number (ISSN): 2319-8141*
37. Priyadharshini. M., **Ravi. D.**, Vijayabharathi V., Effect of Titanium Nanoparticle Containing *Aspergillus Wenti* Biomass for Bioremediation of Fast Green Dyes. *International journal of innovative research & studies*.2014; vol 3 (1) pp 482-497.
38. Revathi.M and **Ravi. D**. Impact of Alkaloids Fraction from *Jatropha Curcas* on Monocytes. *Indian journal of applied research*. 2013. Vol. 3 (10).
39. Saranya R., **Ravi D.**, Vijayabharathi V. Optimization of Intrinsic Factors for the Production of Astaxanthin from *Haematococcus pluvialis*. *The Journal of Bioprocess Technology*. Photon 97 (2013) 209-216.
40. **Ravi D**, Usha G and Parthasarathy R. Antagonistic effect of probiotics in synergic with selected prebiotics against Respiratory Tract Pathogens. *Journal of Antimicrobials*. Photon 128 (2013) 206-210.
41. Usha Ganesan, **Ravi Doraiswamy** and Parthasarathy Raghunathan. Synthesis of Bacteriocin by Synbiotic Effect and Its Antibacterial Activity against Selected Respiratory tract Pathogens. *International Journal of Advanced Research* (2013), Volume 1, Issue 10, 296-303.

42. Usha G., **Ravi D.** and Parthasarathy R Effect of Probiotics along with selected Prebiotics against Respiratory Tract infecting Pathogens. Research Journal of BioTechnology, 2013, 19-24 Vol. 8 (11).
43. Vijayabharathi V., Parthasarathy R., Gokilavani S and **Ravi D.** Assessment of the Bacterial Flora in Hemolymph and Hematological Changes in Bacteria-Infected Fresh Water Crab *Paratelphusa Hydrodromas* (Herbst 1974). Indian journal of Applied research. 2013; Vol. 3 (10).
44. **Ravi Doraiswamy** and Parthasarathy Raghunathan, Comparative study of selected Probiotics on *Aeromonas hydrophila* at fishery farms – As a bio control agent, J Food Process Technol, 2012, Volume 3, Issue 10, pp.64.
45. Parthasarathy Raghunathan and **Ravi Doraiswamy**, Selection of best Probiotics combinations against disease causing *Aeromonas hydrophila* in aquaculture – As a Bioremedeing measures, J Food Process Technol, 2012, Volume 3, Issue 10, pp.64.
46. R. Parthasarathy, V. Ramasubramanian, **D. Ravi**, Effect of probiotic bacteria as a biocontrol agent against disease causing pathogen in *Catla catla* (Hamilton, 1822), Int J Cur Res Rev, Oct 2012 / Vol 04 (19), pp: 15 – 24.
47. S. Santhi, **D. Ravi** and R. Parthasarathy, 2012, Predicted physicochemical properties of acaricidal compounds, Adv. Biotech. 12 (01): 18 – 23
48. R. Parthasarathy, V. Ramasubramanian, **D. Ravi**, Effect of probiotic bacteria as a biocontrol agent against disease causing pathogen in *Catla catla* (Hamilton, 1822), Int J Cur Res Rev, Oct 2012 / Vol 04 (19), pp: 15 – 24.
49. S. Rajamohan, **D. Ravi**, R. Parthasarathy, Textile dye Industry effluent induced morphological changes in Black gram verities (*Vigna munga (L) Hopper*), J. of Ecotoxicol. Environ. Monit, 22 (3): 235 – 244, 2012.
50. R. Parthasarathy & **D. Ravi**, Probiotic bacteria as growth promoter and biocontrol agent against *Aeromonas hydrophila* in *Catla catla* (Hamilton, 1822), *Indian J. Fish.*, 58(3): 87-93, 2011
51. **D. Ravi**, S. Ashokkumar, R. Parthasarathy, Effect of raw and treated dye industrial effluent on pulse crop, Dec, 2010, Indian Association of Canadian Studies, International Conference, SNR College, Coimbatore
52. **D. Ravi**, S. Ashokkumar, T.V.Logaraj, R. Parthasarathy, Dec, 2010, Role of selected Medicinal plants on entero bacteria, International conference on Herbal Medicine, Shri Venkateshwara University, Tirupathi.
53. Ashokkumar. S, **D. Ravi**, R. Parthasarathy, Influence of Herbal medicine on Probiotic bacteria, 2010, peer reviewed proceeding (National Conference on Herbal Medicine), Bharathiar University, Coimbatore
54. Anisha Viswanathan and **D. Ravi**, Targeting the response regulator LuxO in *Vibrio cholerae* quorum sensing mechanism: A promising approach to regulate virulence and biofilm formation, 2010, Trends in Bioinformatics.
55. JaiSheela Marry.S.R, **D. Ravi**, R. Parthasarathy, Ashokkumar. S, Safety and nutritional evaluation of fats used in bakery products, International Conference on Food Technology – Edition II, ‘Greening Food Processing Sector for Sustainable Safe Food Supply’, 30 & 31<sup>st</sup> October, 2010, Indian Institute of Crop Processing Technology (IICPT), Thanjavur
56. Ashokkumar. S, Marudhachalam. A, Parthasarathy. R, **D. Ravi**, Influence of Probiotic bacteria on Herbal Medicine, National conference on Biosafety for Health, 1st Oct. 2010, Dept of Botany, H.H.The Rajah’s College, Pudukkottai, Tamilnadu
57. JaiSheela Marry. S.R, **D. Ravi**, R. Parthasarathy and T.V. Logaraj, Safety and control measures of fatty acids used in the bakery and deep fried products, International conference on Global environment and its sustainability: Implications and strategies (GESIS 2010), 25 – 29 Nov. 2010 Ambassador (Standard), Bangkok, Thailand

56. Asa Sudhakar, **D. Ravi**, Microencapsulated nano-drugs for antibacterial finish in cotton fabrics, International conference on Global environment and its sustainability: Implications and strategies (GESIS 2010), 25 – 29 Nov. 2010 Ambassador (Standard), Bangkok, Thailand
57. Sujitha. S, **D. Ravi**, R. Parthasarathy, Extraction of poly hydroxy butyrate (PHB) from selected microorganisms, International conference on Global environment and its sustainability: Implications and strategies (GESIS 2010), 25 – 29 Nov. 2010 Ambassador (Standard), Bangkok, Thailand
58. S. Rajamohan, **D. Ravi**, R. Parthasarathy, Effect of raw and treated dye industrial effluent on pulse crops International conference on Global environment and its sustainability: Implications and strategies (GESIS 2010), 7<sup>th</sup> November 2010 at Presidency College, Chennai, Tamil Nadu, India
59. S. Rajamohan, P.Sundaramoorthy, K.Sankar ganesh and **D. Ravi**, Textile industry effluent induced changes in growth behavior of blackgram varieties, International conference on Global environment and its sustainability: Implications and strategies (GESIS 2010), 25 – 29 Nov. 2010 Ambassador (Standard), Bangkok, Thailand
60. **D. Ravi**, Parthasarathy, R, V. Ramasubramanian, Probiotic bacteria is a biocontrol agent against the fish born pathogens, International conference on Global environment and its sustainability: Implications and strategies (GESIS 2010), 25 – 29 Nov. 2010 Ambassador (Standard), Bangkok, Thailand
61. R. Parthasarathy, Ashokkumar. S, **D. Ravi**, Rajamohan; Influence of Herbal Medicine on Probiotic Bacteria; National Conference on Herbal Medicine, 8<sup>th</sup> & 9<sup>th</sup> Sep, 2010, Department of Botany, Bharathiar University, Coimbatore.
62. Narendra kumar meena, Nasirulla, JaiSheela Marry, **D. Ravi**, Quality analysis of leftover oils and oils absorbed by the product, 2010, Eco Toxicology & Environmental Monitoring .
63. S. Sujitha, **D. Ravi**; A study on Poly hydroxyl butyrate (PHB) production and its application from *Pseudomonas* spp.(MTCC); Biosciences biotechnology research Asia, Vol. 7 (2) 2010, 825 – 832.
64. **D. Ravi**, Raja Mohan. S. Studies on Utilization of textile dye Industry sludge as organic manure in crop production, UGC sponsored National level seminar on “Emerging Trends in Plant Biotechnology”, 4<sup>th</sup> & 5<sup>th</sup> Feb, 2010; Government Arts College, Coimbatore.
65. **D. Ravi**, M. Ramya; Anti – cancer effect of Rabaudiosibe ‘A’ under in vivo condition Albino rats, Advanced biotech.
66. M. Ramya, **D. Ravi**, Invitro studies of anti – cancer, Effect of *Rabaudiosibe* ‘A’ from *Stevia rebaudiana* against HeLa cell lines, Research J of Biotech, 2012 .
67. **D. Ravi**, R. Parthasarathy, T.V. Logaraj, Effect of probiotic bacteria in Indian major carp, *Catla catla* (Hamilton, 1822) on growth performance and biochemical parameters, *Advanced Biotech*, 2010 Vol 9, Iss 09, March, 2010.
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### 13.1. General Information

### 13.2. List of Projects submitted to various funding agencies

### 13.3. List of on-going projects

### 13.4. Details of Projects completed during the last 5 years

The full bio data with **recent publications** where attached in **Annexure- I**

<b>Sponsoring Agency</b>	<b>Title of the Project</b>	<b>Amount of Grant</b>	<b>Period</b>	<b>Principle/Co investigators (if any)</b>
UGC	Influence of plant source Prebiotics along with selected Probiotics in managing aquaculture diseases	11.21 lakhs	June 2015 - August 2018	Principle Investigator
TANSCHER Minor Research Project	Extraction & Identification of prebiotics from plant sources and its Probiotic specificity & in –vitro antagonistic test against the pathogen	1.5 Lakh	2015 – 2016 (Completed)	Principle Investigator
DST	Adapting a suitable technology for the re -	Rs. 42,65,000	2011 – 2015 (Completed)	Principle Investigator

	cycling of the Paper pulp And Textile dye industry wastes			
UGC	Effect of probiotic on <i>Aeromonas hydrophilla</i> in aquaculture practices	Rs. 10,63,010	2013-2015 (Completed)	Principle Investigator
DBT	Impact of Probiotics on Ulcerative Colitis	Rs. 18,70,000	2011 – 2014 (Completed)	Principle Investigator
UGC	Developing the probiotic consortium to prevent and control the diseases in aquaculture	Rs. 11, 66, 050	Apr. 2010 - March 2013 (Completed)	Principle Investigator
DBT	Cultivation of Mushroom for the Self Help Group – Income Generating Scheme	Rs. 12,00,000	Sep 2001 - Aug 2003 (Completed)	Principle Investigator
DST	Vermicomposting	Rs. 10,00,000	Sep 2002 – Oct04	Co – Investigator
DBT	Sericulture cultivation for SHG - women's	Rs. 15,00,000 + Rs. 8,00,000	Sep 2003 – Oct 2006 Oct 2006 – Sep 2008	Principle Investigator
DST	Cultivation of Mulberry plants and rearing of cocoons among the rural community at Yerkad District as a revenue generating project for the low income group families.	Rs. 33,00,000	Oct 2003 – Sep2008	Principle Investigator
DBT	Cultivation of Medicinal Plants	Rs. 9,00,000	Oct 1999 – Sep 2002	Principle Investigator

### Industrial Collaborative works carried out:

Organization	Title of Project	Amount of Grant	Period	Principle Investigators (if any)
KGISL	Stem Cell Research on Storage software Development	Rs. 9,00,000	July 2005 – May 2008	Principle Investigator
Sai Bioscience Research Ltd	Industrial relation and Biological Database Development	Rs. 2,75,000	2005 – 2008	Principle Investigator
Helini Biomolecules	Biomolecules study & Drug Designing	Rs. 3,90,000	2004 – 2007	Principle Investigator
Bioinformatics Institute of India	Molecular modeling and Drug designing	Rs. 5,00,000	2007 – 2009	Principle Investigator



13.5. Any other details related to the  
project

There is no document available for this plant (*Cyperus bulbosus*). Therefore this work will be pioneer technology to be adapt and extract the nutraceutical compounds. Small scale cultivation of *Cyperus bulbosus* and marketing in aurvedic and sidha based medicine preparations by this *Cyperus bulbosus* can be popularized. The significant of the outcome product will be nutrient, pharmaceutical important and moreover this particular plant due to its nutritional and medicinal important. This will be a commercial live product forever.

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