

CURRICULUM VITAE

Name : A. Najitha Banu,
Qualification: M.Sc., M.Phil., Ph.D.
Email : najirila2010@gmail.com
Mobile : +917508333781



PROFESSIONAL OBJECTIVE

To be a part of an organization where all of my acquired skills are effectively harnessed and thereby making a remarkable positive impact to both, the organization and myself

ACADEMIC RECORD

CLASS/COURSE	NAME OF THE INSTITUTION	BOARD OF STUDY	YEAR OF PASSING	MARKS %	CLASS
Ph.D.,	Thiagarajar College, Madurai	Autonomous-Affiliated to Madurai Kamaraj University	2015		
M.Phil.,	Thiagarajar College, Madurai	Autonomous-Affiliated to Madurai Kamaraj University	2010	76.50	First Class
M.Sc.,	Thiagarajar College, Madurai	Autonomous-Affiliated to Madurai Kamaraj University	2009	75.48	First Class with Distinction
B.Sc.,	Government Arts College, Melur	Madurai Kamaraj University	2006	70.77	First Class
XII	Government Girls Higher Secondary School, Melur	Tamil Nadu State Board	2003	70.08	First Class
X	Government High School, E.Malampatti	Tamil Nadu State Board	2001	67.40	First Class

PROFESSIONAL EXPERIENCE

Assistant Professor

Dept Of Zoology
M.K.M. Group of College,
Hodal, Palwal, Haryana.

: From July 2015 – June 2016

Assistant Professor

Dept Of Zoology

School of Bioengineering and BioSciences

Lovely Professional University

Phagwara, Jalandhar, Punjab.

: From July 2016 – November 2016

Assistant Professor

Dept Of Zoology

School of Bioengineering and BioSciences

Lovely Professional University

Phagwara, Jalandhar, Punjab.

: From July 2017 – At Present

RESEARCH WORK

Ph.D. Thesis: Biosynthesis and characterization of silver nanoparticles using Bacterial and Fungal entomopathogens against human vector mosquitoes.

M.Phil., Dissertation: Laboratory and Field Evaluation of *Isaria fumosorosea* (Brown and Smith) and *Beauveria bassiana* (Balsamo) against selected insect pests.

M.Sc., Dissertation: Laboratory evaluation of hydrolytic enzymes of *Isaria fumosorosea* and its efficiency against *Eurema blanda* and *Pericallia ricini*.

FELLOWSHIPS AND AWARDS:

- Recipient of Maulana Azad National Fellowship from (M.Phil+Ph.D) 2010-2014

Areas of Interest

- Medical Entomology
- Nanotechnology
- Agricultural Entomology
- Microbiology
- Molecular Biology
- Dengue and Malaria related studies
- Nanoparticles synthesis
- Drug delivery
- Biomedical applications.

PUBLICATIONS

Total Impact Factor: 20.31

Total citations: 131

h-index: 4

i10-index: 4

1. Najitha Banu, A., Nayem, U.H. and Raut, A.M. 2019. Larvicidal Activity of Silver Nanoparticles synthesized by *Cymbopogon flexuosus* to control *Culex quinquefasciatus* (Diptera: Culicidae) (Under communication)
2. Najitha Banu, A., Kiran, S. and Raut, A.M. 2019. Bio nanoparticles role in Insect Pest Management. (Under communication)
3. Najitha Banu, A., Kiran, S. and Raut, A.M. 2019. Efficacy of *Eucalyptus globulus* mediated bio-nanoparticles against Malarial vector. (Under communication)
4. Johnson, W., Raut, A.M. and Najitha Banu, A. 2019. Role of Bumble Bee in Pollination, *Annals of Biology*, **35(2)**: 290-295.
5. Satinder, P., Johnson, W., Raut, A.M. and Najitha Banu, A. 2019. Eco-biology and management of onion thrips (Thysanoptera: Thripidae), *Journal of Entomological Research*, **43(3)**: 371-382. (IF-0.66)
6. Pakrudheen, I., Najitha Banu., A and Murugan, E. 2018. Cationic amphiphilic dendrimers with tunable hydrophobicity show in vitro activity, *Environmental Chemistry Letters*, **16 (4)**: 1513-1519. (I.F- 4.617)
7. Johnson, W., Raut, A.M., Mandal, S.K and **Najitha Banu, A.** 2018. Efficacy of new generation insecticides against *Trichogramma chilonis* Ishii and *trichogramma pretiosum* Riley, *Journal Entomology and Zoology Studies.*, **6(1)**: 1361-1365 .
8. Raut, A.M., Satpathi, C.R and **Najitha Banu, A.** 2017. Assessment of yield loss in rice caused by *Scirpophaga incertulas* (Walk.) at Gangetic New Alluvial Zones of West Bengal, India. *Journal of entomological Research.*, **41 (4)**: 413-420. (I.F- 0.66)
9. **Najitha Banu, A.**, Raut, A.M and Balasubramanian, C. 2017. Bioengineered nanoparticles synthesized using *Ipomoea pes-tigridis* for improved antimicrobial activity against drug resistant microbes. *International Journal of Zoology and Applied Biosciences*, **2(6)**: 338-347.
10. Balasubramanian, C and **Najitha Banu, A.** 2016. Microbial nanoparticles as mosquito control agents. *Parasitology Research Monographs*, (8): 89-98. [10.1007/978-3-31\(I.F-2.327\)](#).
11. **Najitha Banu, A.** and Balasubramanian, C. 2015. Extracellular synthesis of silver nanoparticles using *Bacillus megaterium* against malarial and dengue vector (Diptera: Culicidae). *Parasitology Research*, **114(11)**: 4069-4079. [10.1007/s00436-0\(I.F-2.327\)](#).
12. Vinayaga Moorthi, P, Balasubramanian, C., Pasco B. Avery., Selvarani, S., **Najitha Banu, A.** and Kubendran, T. 2014. Pathogenicity and Proteome Production of *Isaria fumosorosea* (= *Pacilomyces fumosoroseus*) (WISE) isolates against lemon butterfly, *Papilio demoleus* (Papilionidae: lepidoptera). *African Journal of Biotechnology*, **13(43)**: 4176-4182. DOI: 10.5897/AJB12.641 (I.F-0.48).
13. **Najitha Banu, A.** and Balasubramanian, C. 2014. Optimization and synthesis of silver nanoparticles using *Isaria fumosorosea* against human vector mosquitoes. *Parasitology Research*, **113**: 3843–3851 (I.F-2.327).

14. **Najitha Banu, A.** and Balasubramanian, C. 2014. Myco-synthesis of silver nanoparticles using entomopathogenic fungus *Beauveria bassiana* against dengue vector, *Aedes aegypti* (Diptera: Culicidae). *Parasitology Research*, **113**: 2869–2877 (I.F-2.85).
15. **Najitha Banu, A.**, Balasubramanian, C. and Vinayaga Moorthi, P. 2014. Biosynthesis of silver nanoparticles using *Bacillus thuringiensis* against dengue vector, *Aedes aegypti* (Diptera: Culicidae). *Parasitology Research*, **113**: 311–316 (I.F-2.85).
16. Vinayaga Moorthi, P., Balasubramanian, C., Pasco B. Avery., **Najitha Banu, A.** and Kubendran, T. 2013. Efficacy of fungal entomopathogens against red cotton stainer *Dysdercus cingulatus* Fab. (Hemiptera: Pyrrhocoridae). *Journal of Biopesticide*, **5(2)**: 140-143 (I.F-0.552).
17. Vinayaga Moorthi, P., Balasubramanian, C., Kubendran, T. and **Najitha Banu, A.** 2012. Laboratory evaluation of hydrolytic enzymes of *Isaria fumosorosea* wise and its efficiency against *Eurema blanda* and *Pericallia ricini*. *Journal of Entomological Research*, **36(1)**: 45-51. ((I.F- 0.66))
18. Balasubramanian, C., Vinayaga Moorthi, P. and **Najitha Banu, A.** 2011. Efficacy of biosynthesized silver nanoparticles against *Aedes aegypti* (Diptera: Culicidae) VBRI press, ISBN: 978-81-920068-3-3, eISBN: 978-81-920068-3-5, DOI: 10.5185/icnano.ab-2011.

Book Publication

- **Najitha Banu, A.** and Balasubramanian, C. 2013. Evaluation of *Bacillus cereus* toxin against human vector mosquitoes. *LAP LAMBERT Academic Publishing*, 1-60. ISBN-10: 3659368288; ISBN-13: 978-3659368288.

PAPER PRESENTATION

International Conference / Symposium

1. Presented a paper in International Conference on Entomology entitled “**Biosynthesis of silver nanoparticles using entomopathogenic fungi *Isaria fumosorosea* against dengue vector *Aedes aegypti* (Diptera:Culicidae)**” held on 21st - 23rd February 2014 at Department of Zoology and Environmental Sciences, Punjabi University, Patiala, India.
2. Presented a paper in International Conference on Vector Born Diseases-Combat and Control entitled “**Extracellular synthesis of silver nano particles using *Bacillus cereus* against dengue vector *Aedes aegypti* (Diptera:Culicidae)**” held on 22nd and 23rd January 2014 at Justice Basheer Ahmed Sayeed College for Woman, Chennai Tamil Nadu, India.
3. Presented a paper in 4th Biopesticides International Conference (BIOCICON 2013) entitled “**Biosynthesis of silver nanoparticles using entomopathogenic fungi *Beauveria bassiana* against dengue vector *Aedes aegypti* (Diptera:Culicidae)**”

held on 28th and 30th November 2013 at St.Xavier College, Palayamkottai, Tirunelveli.Tamil Nadu, India.

4. Presented a paper in International Conference on Nanomaterials and Nanocomposites-Synthesis, Properties and Application (ICNN-2013) entitled **“Extracellular Synthesis of silver nano particles using *Bacillus thuringiensis* against human vector *Culex quinquefasciatus* (Diptera: Culicidae)”** held on 12th and 13th July 2013 at Department of Physics, Mother Teresa Women’s University, Kodaikanal, TN, India.
5. Presented a paper in International Congress of Entomology entitled **“Laboratory Evaluation of Efficacy of *Bacillus thuringiensis* crude toxin (BT.CT) and BT.CT synthesized silver nano particles against human vector mosquitoes”** held on 19th and 25th August 2012 at **EXCO-Daegu, South Korea.**
6. Presented a paper in International Conference on Nanomaterials and Nanotechnology (ICNANO 2011) entitled **“Synthesis of silver nano particles by using entomopathogenic fungi against *Culex quinquefasciatus* (Say)”** held on 18th and 21st December 2011 at Department of Zoology, Delhi University, New Delhi, India.
7. Presented a paper in 3rd Biopesticides International Conference (BIOCICON 2011) entitled **“Efficacy of *Beauveria bassiana* (Balsamo) Vuill. isolates against red pumpkin beetle, *Aulacophora foveicollis* (Coleoptera: Chrysomelidae)”** held on 28th and 30th November 2011 at St.Xavier College, Palayamkottai, Tirunelveli.Tamil Nadu, India.

National Conference / Symposium

1. Presented a paper entitled **“Biosynthesis and characterization of Silver nanoparticles using Entomopathogenic bacteria *Bacillus thuringiensis* against *Aedes aegypti* (Diptera: Culicidae)”** in the 6th conference of Medical Arthropodology held during 18 and 19 October 2012 at Centre for Research in Medical Entomology, (CRME-ICMR) Madurai, Tamil Nadu, India.
2. Presented a paper entitled **“Biosynthesis and characterization of Silver nanoparticles using Entomopathogenic bacteria *Bacillus thuringiensis* against *Aedes aegypti* (Diptera: Culicidae)”** in the 5th conference of Medical Arthropodology held during 18 and 19 October 2011 at Centre for Research in Medical Entomology, (CRME-ICMR) Madurai, Tamil Nadu, India.
3. Presented a paper entitled **“Larvicidal activity of *Bacillus thuringiensis* against Mosquito vectors”** in the **National Seminar** on Recent trends in Pest Management and Conservation of our natural enemies held during 15 and 16 March 2012 at P.G Department of Zoology and Research Centre, V.O.Chidambaram College, Thoothukudi, Tamil Nadu, India.
4. Presented a paper entitled **“Biosynthesis of silver nano particles using entomopathogenic bacteria, *Bacillus thuringiensis* and evaluation of its larvicidal potential”** in **National symposium** on “Harnessing Biodiversity for Biological Control of Crop Pests” held on 25- 26th May **2011** National Bureau of

Agriculturally Important Insects, Bangalore organized by the Society for Biocontrol Advancement, Bangalore and **Awarded a Best Poster Presentation.**

Regional Seminar

- Presented a poster in Darwin 200 celebration held during 12-02-2010 to 13-02-2010 at School Of Biotechnology, Madurai Kamaraj University, Madurai, Tamil Nadu. **Won the First Prize.**

Intercollegiate Student Seminar

1. Presented a paper entitled “New tactics in the fight against tuberculosis” in the State level student’s seminar on 23-09-2009 at Department of Zoology and Microbiology, Thiagarajar College, Madurai, Tamil Nadu, India .
2. Presented a paper entitled “The future of man – how will evolution change humans?” in the State level student’s seminar on 26th February 2009 at Department of Zoology and Microbiology, Thiagarajar College, Madurai and **won IIIrd prize.**
3. Presented a paper entitled “Causes of Global Warming” in the State level student’s seminar on 28th February 2008 at Department of Zoology and Microbiology, Thiagarajar College, Madurai.

WORKSHOP(S) AND TRAINING PROGRAMME(S)

1. Attended the Winter School on Statistical Data Analysis Methods held on 16th to 20th February 2015 at the Interdisciplinary Statistical Research Unit (ISRU), Indian Statistical Institute (ISI), Kolkata, West Bengal, India.
2. Participated in the UCG sponsored National Seminar on “Emerging Trends in Chemistry” held on 9th March 2013 at Sourashtra College, Madurai, TN, India.
3. Participated in the workshop on Scanning Electron Microscopy & X-Ray Diffraction held on 28th Feb and 1st March 2013 at Department of Materials Science and Engineering CARE School of Engineering, Trichy, TN, India.
4. Attended the Author workshop held on 29th January 2013 at the Springer and Edanz along with the Department of Information Science and Technology, Anna University, Chennai, TN, India.
5. Participated in the Second International workshop on Advanced Functional Nanomaterials (SIWAN-2013) held on 28th-30th January 2013 at Centre for Nanoscience and Technology & Centre for International Affairs, Anna University, Chennai, TN, India.
6. Participated in the National workshop on Nanotechnology and Molecular Biology-2012 held on 11th -14th December 2012 at the Centre for Advanced Studies in Botany, University of Madras, Chennai, TN, India.

7. Participated in the workshop on techniques in collection and rearing of biocontrol insects (WOCRBI-2012) held on First, February 2012 at Jamal Mohamed College, Tiruchirappalli, TN, India.
8. Participated in the workshop on “Research Philosophies and Methods” held on 12th January 2012 at Thiagarajar College, Madurai, TN, India.
9. Underwent “Hands short Training Programme in Molecular Techniques” held on 30th September 2010 – 1st October 2010 at Sathyabama University, Chennai, TN, India.

Membership

- **Reviewer in Environmental Sciences and Pollution Research (Springer) from 2019**
- **Reviewer in Acta Tropica (Elsevier) during 2017**
- **Associate Editor in International Journal of Mosquito Research from June 11, 2017**
- **Editorial Board member in EC Microbiology from June 29, 2017**
- **Associate Editor in International Journal of Entomology Research from July 03, 2017 (Ref: AKINIK/LM/95)**
- **Associate Editor in International Journal of Zoology Studies from July 03, 2017 (Ref: AKINIK/LM/93)**
- **Associate Editor in Journal of Entomology and Zoology Studies**

Extra –curricular Activities

- Active participant of Youth Red Cross society activities

Computer Proficiency

- One year Certificate course in “Computer-cum-Internet Literacy Programme” with first Class
- Working knowledge in Internet

Personal Details

Father’s Name	: Mr. Asan Mohamed (Late)
Mother’s name	: Mrs. A. Aysha Beevi
Date of Birth	: 08 th May, 1986
Sex	: Female
Nationality	: Indian
Permanent Address	: 2/166,2/196, Chettiar Street, Keelavalavu (Post) Melur (TK), Madurai (DT), Tamil Nadu- 625102.
Language Known	: English, Tamil (To Read , Write and speak) and Hindi (Speak)

References

Dr. C. Balasubramanian, Ph.D

Associate Professor,
Department of Zoology,
Thiagarajar College,
Madurai-625 009
Email: ulab62@yahoo.com
Mobile: +91 999421-3069

Dr. N. Arun Nagendran, Ph.D

Associate Professor,
Department of Zoology,
Thiagarajar College,
Madurai-625 009
Email: narunnagendran@gmail.com
Mobile: +91 94436-74585

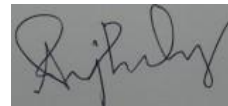
Dr. C. Ravi, Ph.D

Assistant Professor,
Department of Zoology,
Thiagarajar College,
Madurai-625 009
Email: ravi_cyril@yahoo.co.in
Mobile: +91 99431-92525

STATEMENT OF PURPOSE

The sharing of ideas and new findings has always been a vital part of my life. Often new theories replaced old ones so fast that I can update my work right up till I had to present. The power of my thinking lies in the way it has changed with experiences and environment. I hope to turn this interest into a newer learning experience with confidence to design and handle new projects. I would like to pursue my career in the field of research which helps mankind.

Yours truly,



(NAJITHA BANU, A)