

Resume

Dr. Eliza James

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Objective Statement

Dedicated educator with over 10 years of teaching research experience, seeking to inspire students through Innovative teaching methods and a passion for learning, while fostering a positive and engaging classroom environment.

Educational Details

Qualification	Board / University
B.Ed., (Pursuing)	Singhania University
Ph.D., in Biotechnology	Bharathidasan University
M.Sc., Zoology	Bharathidasan University
B.Sc., Zoology	Bharathidasan University
PG Diploma in Clinical Research	Amclin Life sciences

Teaching and Administrative Experience

Sr.	Position Held	From	To	Duration	Place of Employment
1.	Class Facilitator – Biology Teacher	May-2022	March-2025	2 years	Chrysalis High Gunjur -CBSE
2.	Class Facilitator	May-2019	March-2020	1 Year	Global City International School, Bangalore-CAIE
3.	Lecturer	June 2006	April 2007	1 Year	BARD Univ, Trichy, TN
4.	Teacher	Sep. 2004	April 2006	2 Years	SSVM-Coimbatore, TN
5.	Teacher	June 2001	April 2002	1 Year	RSK (BHEL)-Trichy, TN
6.	Chemist	August 1998	July 1999	1 Year	Trichy Distilleries and Chemicals, Trichy, TN
7.	Teacher	June 1997	July 1998	1 Year	Servite English School, Trichy, TN

Research Experience

Experience Details:

- ❖ **Clinical Research Coordinator-** Amclin Life Sciences (Site Managing Organization)
Pune Site: Noble Hospital, Pune. 2013-2014
- ❖ **Post Doctoral Research Fellow** - Center for Strategic Nano Fabrication at the School of Chemistry and Biochemistry-**Perth, Australia**. 2010-2012
- ❖ Project Title: Drug Delivery for neurotrauma using Phosphonated calixarenes. 2010-2012.
- ❖ **Research Assistant:** Worked as a RA in the Department of Anatomy, **National University of Singapore** (From August – October 2010).
- ❖ **Research Fellow:** June 2007- March 2010. University Grant Commission - Major Project, sanctioned by Govt. of India. Holy Cross College, Trichy.

Roles and Responsibilities in Research

- ❖ Organizing meetings for research Collaborators and team members.
- ❖ Preparing presentation for meetings and conferences.
- ❖ Preparing Manuscript for Publications.
- ❖ Working with other lab team members to have collaborative publications
- ❖ Examining the research reports and thesis of team members.
- ❖ Examiner for Honors Viva Voce.
- ❖ Organizing workshops to train the younger research candidates.
- ❖ Attending conferences for presenting research results.
- ❖ Preparing research projects to get funding from Government (University Grant Commission India).
- ❖ Preparing research reports for UGC to confirm the completion of research funded by them with the successful publications.
- ❖ Reviewer of reputed Journal Articles for various biochemistry articles

Hands on Techniques and Skills

- ❖ HPLC – Analytical & Preparative
- ❖ Chromatography – Column
- ❖ NMR
- ❖ ELISA
- ❖ Gene Expression Analysis – PCR, PAGE, Western Blot
- ❖ Microscopy – Confocal, TEM, Florescence Inverted
- ❖ Cell Culture – PC-12, MCF7, MCF-11A
- ❖ Biochemical Techniques - RIA for Peptide and Steroid hormone assay.
- ❖ Bioinformatics – Docking of compounds using Discovery Studio 2.1

Membership

Life member in Society for Reproductive Biology and Comparative Endocrinology(SRBCE)

Conferences and Workshops Attended

- Participated in International Conference on Novel Updates in Reproductive Biology and comparative Endocrinology - 2009
- Participated in “National workshop on Systems Biology” -2009
- Attended One day seminar on “Ahimsa and Animal Alternatives” -2009
- Participated and paper presented in Swedesi Science Congress - 2008
- Participated in National Conference Amirtha Institute of Medical Sciences and Research Centre-2007
- Participated workshop on “In Silico Drug Designing & Molecular Modeling” - 2007
- Participated in National Seminar on “New Frontiers in Biological Sciences” -2007
- Participated National Workshop on “Gene Expression Analysis” - 2006
- Organized and Participated 3-day workshop on “Ornamental Fish Culture” -2004
- Participated in two-day workshop on “Management of Natural Resources” -2003

Paper Presented

- ✓ Oral presentation in National conference entitled “ Antidiabetic potential of Costunolide in induced diabetic rats” at Rajiv Gandhi center for biotechnology, Tiruvandrum, Kerala-2007 STZ-
- ✓ Model Presented in “Biofest” conducted by The Gandhigram Deemed University-2004

Invited Review

- ❖ Journal of Medicinal Chemistry
- ❖ Journal of Nutrion Chemistry
- ❖ Journal of Internal Medicine

Non Scientific Academic awards & merits

- ❖ Gold medalist for proficiency in Zoology (2004)
- ❖ Gold medalist for general proficiency (2004)
- ❖ National Merit Scholarship (2002-2004)
- ❖ Major Aravandi Award for general proficiency 2003

Personal information

- ❖ Marital Status: Married
- ❖ Sex : Female
- ❖ Blood Group: AB +ve
- ❖ Nationality: Indian

Publications

1. **Eliza James**, Paul K. Eggers, Alan R. Harvey, Sarah A. Dunlop, Melinda Fitzgerald, Keith A. Stubbs and Colin L. Raston 2013. Antioxidant phospholipid calix[4]arene mimics as micellar delivery systems. *Organic & Biomolecular chemistry*
2. **Eliza James**, Helena Viola, Livia Hool, Paul K. Eggers, Colin L. Raston and Ramiz A. Boulos 2013. A novel antimicrobial agent reduces oxidative stress in Cells. *Royal Society of Chemistry*. 2013, 3, 7277–7281
3. Paul K. Eggers, Thomas Becker, Marissa K. Melvin, Ramiz Boulos, **Eliza James**, Natalie Morellini, Alan R. Harvey, Sarah A. Dunlop, Melinda Fitzgerald, Keith A. Stubbs and Colin L. Raston* 2012. Composite fluorescent vesicles based on ionic and cationic amphiphilic calix[4]arenes. *Royal Society of Chemistry*.
4. Dr. Adam D. Martin, Emma Houlihan, Dr. Natalie Morellini, Dr. Paul K. Eggers, **Dr. Eliza James**, Dr. Keith A. Stubbs, Prof. Alan R. Harvey, Asst. Prof. Melinda Fitzgerald, Prof. Colin L. Raston*, Prof. Sarah A. Dunlop* 2012. Synthesis and Toxicology of p-Phosphonic Acid Calixarenes and O-Alkylated Analogues as Potential Calixarene-Based Phospholipids. *ChemPlusChem* 77- 4, 308–313. Impact Factor:
5. **J.Eliza**, M.Rajalakshmi S.J.Ignacimuthu and P.Daisy 2011. Normalizing effect of *Costus speciosus* rhizome crude extracts and its fractions on diabetic complications in STZ-induced diabetic rats. *Medicinal Chemistry Research* (Article in Press). DOI 10.1007/s00044-010-9448-5. Sep 21, 2010 Date of Acceptance. Impact Factor: 1.037.
6. **James Eliza**, Pitchai Daisy, Savarimuthu Ignacimuthu 2010. Antioxidant activity of costunolide and eremanthin isolated from *Costus speciosus* (Koen ex. Retz) Sm. *Chemico-Biological Interactions* 188 467-472. Impact Factor: 3.012 -7 Citations.
7. **James Eliza**, Pitchai Daisy, Savarimuthu Ignacimuthu, Veeramuthu Duraipandiyan 2009. Antidiabetic and Antilipidemic effect of Eremanthin from *Costus speciosus* (Koen.)Sm., in STZ Induced diabetic rats. *Chemico Biological Interaction* 182, 67–72. Impact Factor: **3.012 -3** Citations.
8. **James Eliza**, Pitchai Daisy, Savarimuthu Ignacimuthu, Veeramuthu Duraipandiyan 2009. Normoglycemic and Hypolipidemic effect of costunolide isolated from *Costus speciosus* (Koen ex.Retz.)Sm. in Streptozotocin induced diabetic rats. *Chemico Biological Interaction* 179, 329-334. Impact Factor: **3.012**
9. Pitchai Daisy, **James Eliza**, Khanzan Abdul Majeed Mohamed Farook 2009. A novel Dihydroxy gymnemic triacetate isolated from *Gymnema sylvestre* possessing normoglycemic and hypolipidemic activity on STZ-induced diabetic rats. *Journal of Ethnopharmacology* 126, 339–344. Impact Factor: **2.986 - 2** Citations
10. Daisy.P, Balasubramanian.K, M.Rajalakshmi, **Eliza.J**, Selvaraj.J 2010. Insulin mimetic impact of Catechin isolated from *Cassia fistula* on the glucose oxidation and molecular mechanisms of glucose uptake on Streptozotocin-induced diabetic Wistar rats. *Phytomedicine*. 17 28-36. Impact Factor **2.483 – 1** Citation
11. Pitchai Daisy, **James Eliza**, Savarimuthu Ignacimuthu 2008. Influence of *costus speciosus* (Koen.)sm., on Biochemical Parameters in Streptozotocin Induced Diabetic Rats. *J. Health Sci.*, 54 (6), 1-7. Impact Factor: **0.754**

12. Rajalakshmi. M, **Eliza J**, Cecilia Edel Priya, Sr. Lilly. V. & Daisy P. 2009. Biochemical and histopathological Study of Cassia fistula bark extracts in STZ-induced Diabetic rats. International Journal of Biotechnological Research. 2(1), 35-40. (ISSN: 0974-6293).
13. Nirmala, **J.Eliza**, M.Rajalakshmi, Edel Priya, P.Daisy 2008. Effect of Hexane extract of *Cassia fistula* barks on blood glucose and lipid profile in streptozotocin diabetic rats. Int.Jr. of Pharmacol., 4(4), 292-296. Index: **6**, ISSN: **18117775**, **18125700**
14. P.Daisy, **J.Eliza**, 2007. Hypoglycemic property of polyherbal formulation in streptozotocin induced diabetic rats. Biochem. Cell. Arch., 7(1), 135
15. M. Rajalakshmi, **J. Eliza**, Cecilia Edel Priya, Nirmala A and P. Daisy 2009. Anti-diabetic properties of *Tinospora cordifolia* stem extracts on streptozotocin- induced diabetic rats. African Journal of Pharmacy and Pharmacology 3(5), 171-180. 1 Citation Impact Factor: **0.84**
16. Nirmala Arulrayan, Saradha Rangasamy, **Eliza James**, Daisy Pitchai., 2007. A database for medicinal plants used in treatment of diabetes and its secondary complications. Bioinformation 2(1): 22 -23). ISSN **0973-2063**; Print ISSN **0973-8894**.
17. A.R.C. Nirmala, **J.Eliza**, 2005. Effect of phosphomidan on the carbohydrate, protein and lipid contents in *Cirrhhina mrigala*. Jr. of Microbiol. Biotech. Env. Sc., 7(4), 813-814.

Hobbies

- ❖ Listening to Music.
- ❖ Cooking
- ❖ Reading.
- ❖ Gardening
- ❖ Visiting Orphanages and Old age Homes

Strengths

- ❖ Target Achievement.
- ❖ Punctuality.
- ❖ Quick Learning Ability.
- ❖ Compliance

Declaration

I solemnly declare that the statements made by me in this form are correct to the best of my knowledge and belief.

Place: Bangalore, India

Date: July 2025

Eliza James