

## Curriculum Vitae

### **Srinivasan Easwar**

*Associate Professor*

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### ➤ *Personal details*

**Name:** S. Easwar

**Father's name:** K. N. Srinivasan

**Date of Birth:** 10th Oct 1977

**Nationality:** Indian

**Marital Status:** Married

### ➤ *Academic Background*

- **B.Sc. Chemistry**

**1998**, Ramakrishna Mission Vivekananda College, University of Madras

- **M.Sc. Chemistry** (specialization in *Organic Chemistry*):

**2000**, Department of Chemistry, University of Pune, India

**Ranked FIRST in the Department with an overall score of 76%**

- **Ph.D.**

**2006**, National Chemical Laboratory (NCL), Pune, India

**Supervisor:** Dr. Narshinha P. Argade

**Thesis title:** Enzymes as a Reagent in Organic Synthesis: An Efficient Resolution of Key Intermediates of Pharmaceutically Important Compounds and Synthesis

### ➤ *Professional & Research Experience*

- ☞ **Oct 2006 – Jul 2008**, *Post-doctoral Research Fellow*

Department of Chemistry “G. Ciamician”, University of Bologna, Italy

**Mentors:** Prof. Claudio Trombini and Dr. Marco Lombardo

**Research field:** Asymmetric Organocatalysis, focusing on the design of onium-tagged prolines as catalysts for the asymmetric aldol reaction in green reaction media

- ☞ **Aug 2008 – Aug 2011**, *Research Scientist*

Sai Life Sciences, Pune (Medicinal Chemistry R & D)

Team leader for medicinal chemistry R&D projects involving design and synthesis of a variety of scaffolds and compounds

☞ **Aug 2011 – May 2019**, Assistant Professor  
Department of Chemistry, Central University of Rajasthan, Ajmer

☞ **Jun 2019 – till date**, Associate Professor  
Department of Chemistry, Central University of Rajasthan, Ajmer

### ➤ **Grants & Research Funding**

- Research Grants received from MoE STARS, SERB, DST, CSIR and UGC, India, with a total funding > Rs. 1.5 crore
- Two collaborative projects carried out in collaboration with **RFBR, Russia** (with Prof. Sergei Zlotin, Zelinsky Institute of Organic Chemistry, Moscow) and **Academy of Finland** (with Prof. Petri Pihko, University of Jyvaskyla, Finland)

#### **Projects currently in progress:**

1. **SERB – CRG:** Investigation of Diverse Reactivity Patterns in Morita–Baylis–Hillman Ketones to access Biologically Significant Heterocyclic Scaffolds  
**Duration: 2023-‘26; Sanction: ~Rs. 35 lakhs**
2. **MoE-STARS:** Exploring Conformationally Constrained and Cooperatively Assisted Bifunctional Organocatalysts for Enantioselective Mannich / Michael Addition Reactions  
**Duration: 2023-‘26; Sanction: ~Rs. 22 lakhs**
3. **SERB – POWER (Co-PI):** Development of L-proline modified magnetoreceptor protein-coated iron beads as recyclable heterogenous biocatalyst for asymmetric transformations  
**Duration: 2022-‘25; Sanction: ~Rs. 44 lakhs**

#### **Projects completed:**

1. **SERB – CRG:** Studies on the organocatalytic enantioselective construction of tetrahydroxanthrenones  
**Duration: 2019-‘22; Sanction: ~Rs. 43 lakhs**
2. **CSIR – EMR:** Design of Novel Bifunctional Amine-Urea/Thiourea Catalysts for Asymmetric C-C Bond Forming Applications  
**Duration: 2018-‘21; Sanction: ~Rs. 28 lakhs**
3. **DST – Academy of Finland Collaborative Project** – “Studies on the Asymmetric Mannich and Michael Addition Reactions Catalyzed by a Folding Bifunctional Organocatalyst”  
*In collaboration with and in the laboratory of Prof. Petri Pihko, University of Jyvaskyla, Finland*  
**Duration: Aug-Oct 2019; Mobility Grant of Rs. 1 lakh**
4. **DST-RFBR Indo-Russian Collaborative Project** – “Synthesis and studies on catalytic performance of novel ion-tagged recyclable chiral organocatalysts generated from suitable dipeptides”  
*In collaboration with Prof. Sergei Zlotin, Zelinsky Institute of Organic Chemistry, Moscow*  
**Duration: 2014-‘16; Sanction: ~26 lakhs**
5. **UGC Start-up:** Studies towards the total synthesis of protoberberine based natural products  
**Duration: 2015-‘17; Sanction: Rs. 6 lakhs**

### ➤ **Research Supervision**

- No. of Ph.D.'s awarded: 6
- No. of scholars pursuing Ph.D.: 3
- Master's Dissertations: ~45

### ➤ **Awards & Recognitions**

- "Prof. D. K. Banerjee Memorial Lecture Award" given by **Indian Institute of Science, Bangalore**, Apr 2023
- **Co-Convener**, *Rajasthan Local Chapter* of the Chemical Research Society of India (CRSI), July 2020-till date
- **Member of National Level Subject Expert Committee** for evaluation of proposals and Review of Projects in Chemical Sciences under the **DST-FIST** Program, 2022-till date
- Invited as a **Selection Committee Member** for **Faculty Recruitment**, *Banasthali Vidyapith, Rajasthan*, Jan 2024
- Invited as **Selection Committee Member** for Interviews conducted by **Rajasthan Public Service Commission**
- Served as Examiner for several Ph.D. thesis and invited as reviewer to evaluate proposals for research grant applications and manuscripts for publication (*multiple*).

### ➤ **Invited Lectures / Resource Person (recent)**

- International Conference on "Emerging Trends in Catalysis and Synthesis (ETCS) at **IIT Kharagpur**, Mar 2024
- Indo-French Conference on "Fostering Catalysis for Societal Benefit (FCSB)" at **University of Hyderabad**, Jan 2024
- Two-Week Online Faculty Development Programme in Chemistry and Allied Sciences [FDPCAS], **Central University of Jammu**, Oct 2023, *Resource Person*
- International Conference on Organometallics and Catalysis (ICOC), Goa, Oct-Nov 2023
- DST-STUTI Program of Central University of Rajasthan, Aug 2023, *Resource Person*
- International Conference on "Recent Advances in Chemical Sciences" at **Central University of Jammu**, Nov 2022
- Annual Symposium "Interactions 2022", **IISER Bhopal**, Mar 2022

### ➤ **Teaching Experience**

- Since 2011, taught University theory and laboratory courses in general and advanced organic chemistry, and advanced organic synthesis including asymmetric synthesis (on average 3-4 courses / year, with 15 to 175 participants).

### ➤ **Roles in Organizing Scientific Conferences**

(only major national / international conferences are listed)

- **Convener** – International Conference on "Frontiers in Catalysis" organized by Department of Chemistry, C. U. Rajasthan, during Jan 04-05, 2024

- **Joint Secretary** – International Conference on Green Chemistry, *Dec 2011*
- **Organizing Secretary** – National Conference on “Emerging Trends in Applied Chemical Sciences”, *Mar 2016*

### ➤ **Administrative Roles**

- **Head**, Department of Chemistry, Central University of Rajasthan, **Aug '19 – Sep '24**
- **Dean**, School of Chemical Sciences and Pharmacy, Central University of Rajasthan, **Mar '23 – till date**
- **Coordinator** – Malaviya Mission Centre (for Teachers' Training), Central University of Rajasthan, **Sep '23 – till date**

### ➤ **Memberships in Scientific Societies**

- Life Member – Chemical Research Society of India (CRSI)

### ➤ **Significant (recent) publications:**

- Contrasting Facial Selectivity of a Squaramide-Tagged Proline in the Asymmetric Michael Addition of Ketones to Maleimides  
K. Kumari, A. G. H. Khan and **S. Easwar\***, *Adv. Synth. Catal.* **2024**, *366*, *in press* (DOI: [10.1002/adsc.202400791](https://doi.org/10.1002/adsc.202400791))
  - A *retro*-Mannich mediated transformation of Morita–Baylis–Hillman Ketones to Saturated Imidazo[1,2-*a*]pyridines  
S. Sharma, A. K. Jha and **S. Easwar\***, *Org. Chem. Front.* **2024**, *11*, **3137-3150**.
  - Mechanistic Investigations on the Interaction of Morita–Baylis–Hillman Ketones with 2-Aminothiophenol  
R. Kumari, A. K. Jha, A. G. H. Khan and **S. Easwar\***, *J. Org. Chem.* **2024**, *89*, **7263-7269**.
  - Acyl Transfer Driven Rauhut–Currier Dimerization of Morita–Baylis–Hillman Ketones  
R. Kumari, A. K. Jha, S. Goyal, R. Maan, S. R. Reddy and **S. Easwar\***, *J. Org. Chem.* **2023**, *88*, **2023-2033**. <https://doi.org/10.1021/acs.joc.2c02244>
  - Synthesis of 2,2-Disubstituted Dihydro-1,4-benzothiazines from Morita–Baylis–Hillman Ketones by an Oxidative Cyclization  
A. K. Jha, R. Kumari and **S. Easwar\***, *J. Org. Chem.* **2022**, *87*, **5760-5772**.  
<https://doi.org/10.1021/acs.joc.2c00087>
  - Diamine-Mediated Degradative Dimerisation of Morita–Baylis–Hillman Ketones  
A. K. Jha, A. Kumari and **S. Easwar\***, *Chem. Commun.* **2020**, *56*, **2949-2952**.  
<https://doi.org/10.1039/C9CC10068G>
  - A Hydrazine Insertion Route to N'-Alkyl Benzohydrazides by an Unexpected Carbon-Carbon Bond Cleavage  
A. K. Jha, R. Kumari and **S. Easwar\***, *Org. Lett.* **2019**, *21*, **8191-8195**.  
<https://doi.org/10.1021/acs.orglett.9b02657>
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