

Curriculum Vitae

Srinivasan Easwar

Associate Professor, Department of Chemistry
Central University of Rajasthan (CURAJ)
NH-8, Kishangarh, Distt. Ajmer, Rajasthan 305817
e-Mail: easwar.srinivasan@curaj.ac.in
Ph (M): +91-9960915369
ORCID: 0000-0002-7352-0897
Website: <http://www.curaj.ac.in/faculty/easwar-s>



➤ Personal details

Name: Srinivasan Easwar

Date of Birth: 10th Oct 1977

Marital Status: Married

Father's name: K. N. Srinivasan

Nationality: Indian

Languages known: Tamil, Hindi, English

➤ Academic Background

- **B.Sc. Chemistry** (1998)
Ramakrishna Mission – Vivekananda College, University of Madras
- **M.Sc. Chemistry** (2000)
Department of Chemistry, University of Pune, India
Ranked FIRST in the batch with an overall score of 76%
- **Ph.D.** (2006)
National Chemical Laboratory (NCL), Pune, India
Supervisor: Dr. Narshinha P. Argade
Research field: *Biocatalysis and total synthesis of natural products*

➤ Professional & Research Experience (18 years, post-Ph.D.)

- ☞ **Jun 2019 – till date**, Associate Professor
Department of Chemistry, Central University of Rajasthan, Ajmer
- ☞ **Aug 2011 – May 2019**, Assistant Professor
Department of Chemistry, Central University of Rajasthan, Ajmer
- ☞ **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

☞ **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*

➤ Teaching Experience (13.5 years)

- At C. U. Rajasthan, Handled 3-4 courses every year since 2011, having between 20 to 175 students each
 - Courses taught: Pericyclic reactions & Photochemistry, Synthetic methods in Organic Chemistry, Natural Products, Organometallic Chemistry (PG); Advanced Organic Chemistry and Asymmetric Synthesis (Ph.D. coursework); Basic Organic Chemistry (UG)
 - Developed new Elective Courses such as Natural Products – Biosynthesis and Total Synthesis and Advanced Asymmetric Synthesis
 - Involved in the design of the curricula for the undergraduate and postgraduate chemistry programs, including credit framework and design of laboratory experiments
 - Developed extensive ONLINE course content using the SWIVL platform for carrying out teaching through online mode during COVID-19 and beyond
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➤ Research Interests

- **Synthetic Organic Chemistry**
 - Development of novel methodologies based on the Morita-Baylis-Hillman reaction
 - Total synthesis of natural products and analogs
 - Synthesis of heterocyclic scaffolds renowned for significant biological activity
 - **Asymmetric Synthesis**
 - Design of proline-derived bifunctional organocatalysts
 - Enantioselective access to tetrahydroxanthenones and carbazoles
 - Asymmetric desymmetrisation reactions
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➤ 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 tetrahydroxanthenones
Duration: 2018-'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 Jyväskylä, Finland
Duration: Aug-Oct 2019; Rs. 1 lakh (*Mobility Grant*)
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: ~Rs. 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 graduated: **6**
- No. of scholars pursuing Ph.D.: **4**
- Master's Dissertations: **~45**

➤ **Awards & Recognitions**

- "**Prof. D. K. Banerjee Memorial Lecture Award**" conferred by Indian Institute of Science, Bangalore, Apr 2023
- **Member, National Level Subject Expert Committee** for evaluation of proposals and Review of Projects in Chemical Sciences under the **DST-FIST** Program, 2022-'24
- **Co-Convener, Rajasthan Chapter**, Chemical Research Society of India, July '20-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 (RPSC)***
 - *Served as Examiner for several Ph.D. thesis and invited as reviewer to evaluate proposals for research grant applications and manuscripts for publication (*multiple*)*
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➤ **Scholarships & Achievements**

- Ranked **first** in the M.Sc. Chemistry batch of 1998-2000, Department of Chemistry, University of Pune.
 - Qualified **GATE** (2000) in Chemical Sciences with an **All India Rank of 76**.
 - Twice qualified the CSIR-UGC-NET exam for **Junior Research Fellowship**, one of which was in the **top 20% rank**.
 - University of Bologna, Bologna, Italy – **Post-Doctoral Fellowship** Oct 2006 – Jun 2008.
 - Twice received the **Star Performer** award at Sai Advantium Pharma Limited on the basis of performance in coordinating research projects as a team leader.
 - **Twice winner** (1997 & 1998) of the “**Chemistry Crossword**” competition held at Ramakrishna Mission Vivekananda College, Chennai.
 - Co-authored an article entitled “*Natural Products & Total Synthesis: Serving Mankind in Unison*”, published in a college annual magazine.
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➤ **Roles in Organizing Scientific Conferences**

- **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 07-09, 2011*
 - **Organizing Secretary** – National Conference on “Emerging Trends in Applied Chemical Sciences”, *Mar 2016*
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➤ **Memberships in Scientific Societies**

- Life Member – Chemical Research Society of India (CRSI)
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➤ **Administrative Roles & Additional Responsibilities (*recent*)**

- *Dean*, School of Chemical Sciences and Pharmacy, C. U. Rajasthan, **Mar '23 – till date**
 - *Head*, Department of Chemistry, C. U. Rajasthan, **Aug '19 – Sep '24**
 - *Member*, Academic Council, C. U. Rajasthan, 2023 – till date
 - *Member*, Central Instrumentation Management Committee (CIMC), 2021 – till date
 - Responsible in part for the procurement of high-end research instruments
 - *Coordinator* – Malaviya Mission Centre (for Teachers' Training), C. U. Rajasthan, Oct '23 – Feb '25
 - *Member*, SSR Committee C. U. Rajasthan for NAAC data compilation, Aug '23 – till date
 - *Member*, Research & Development Cell, C. U. Rajasthan, Aug '23 – till date
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➤ Invited Lectures / Resource Person (recent)

- *Invited Lecture* – 61st Annual Convention of Chemists organized by the *Indian Chemical Society* at Jaipur, Dec 2024
- *Invited Lecture* – International Conference on “Emerging Trends in Catalysis and Synthesis (ETCS) at IIT Kharagpur, Mar 2024
- *Invited Lecture* – Indo-French Conference on “Fostering Catalysis for Societal Benefit (FCSB)” at University of Hyderabad, Jan 2024
- *Resource Person* – Two-Week Online Faculty Development Program in Chemistry and Allied Sciences [FDPCAS], Central University of Jammu, Oct 2023
- *Invited Lecture* – International Conference on Organometallics and Catalysis (ICOC), Goa, Oct-Nov 2023
- *Resource Person* – DST-STUTI Program of Central University of Rajasthan, Aug 2023

➤ Significant publications (recent)

- 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, 4715-4722. 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. DOI: [10.1039/D4QO00352G](https://doi.org/10.1039/D4QO00352G)
 - 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. DOI: [10.1021/acs.joc.3c02993](https://doi.org/10.1021/acs.joc.3c02993)
 - 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. DOI: [10.1021/acs.joc.2c02244](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. DOI: [10.1021/acs.joc.2c00087](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. DOI: [10.1039/C9CC10068G](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. DOI: [10.1021/acs.orglett.9b02657](https://doi.org/10.1021/acs.orglett.9b02657)
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