

## ROSHNA VAKKEEL

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*Dedicated and proactive Synthetic Organic/ Bio-organic/ Biomaterial chemist with 10+ years of research and interdisciplinary project management experience.*

*Seeking to find a suitable position that leverages my scientific expertise, creativity, diligence and composure in the area of scientific writing, editing and publishing.*



### COMPETENCIES

- Planning and execution of interdisciplinary scientific projects at chemistry-material-biology interface.
- Experimentation, data collection, interpretation and studies with wise budget handling.
- Drafting, editing, proofreading, and publishing manuscripts in peer-reviewed journals.
- Literature search, handling citation management tools, data interpretation software and MS-Office tools.
- Effective time management, communication and interpersonal skills.

### PROFESSIONAL SUMMARY

**Since Nov 2021:** Guest Editor, Gels, MDPI; Special Issue (SI) on “*Functional Hydrogels for Biomedical Applications*” ([https://www.mdpi.com/journal/gels/special\\_issues/functional\\_hydrogels\\_biomedical](https://www.mdpi.com/journal/gels/special_issues/functional_hydrogels_biomedical))

- Defined summary, scope and agenda for the SI to set up SI website and promoted it in relevant networks.
- Prepared prospective authors list, sent out invites, managed, scrutinized, proofed oversaw submissions.
- Ensured quality content; upheld ethical and editorial standards and made final decisions on manuscripts.

**Since 2015:** Reviewer for *Journal of Food and Drug Analysis* (Sciencedirect), *Nutrition* (Elsevier)

**12/2015 – 11/2018:** Post-doctoral Research Associate, INM – Leibniz Institute for New Materials, Saarbrücken, Germany. Research Supervisor: **Prof. Dr. Aránzazu del Campo, Director, Leibniz – INM.**

- Gained technical expertise on experimentation, analysis, data collection and further studies.
- Developed safety data sheets for chemical handling and synthesized compounds.
- Co-ordinated group meetings; presented in national and international conferences.
- Supervised and trained PhD, project students and Chemical Technical Assistants.

**07/2014 –11/2015:** Post-doctoral Research Associate, Max-Planck Institute for Polymer Chemistry, Mainz, Germany.

- Designed, synthesized and characterized photoprotected amino acids and compounds to develop latent biologically active molecules for intended projects.
- Developed expertise in purification and characterization techniques.

### EDUCATIONAL BACKGROUND

**2007-2014: Doctor of Philosophy (Ph.D.),** National Chemical Laboratory (NCL), Pune, India.

Supervisor: **Dr. G. J. Sanjayan** [https://en.wikipedia.org/wiki/Gangadhar\\_J.\\_Sanjayan](https://en.wikipedia.org/wiki/Gangadhar_J._Sanjayan)

**2005-2007:** M. Sc. *Organic Chemistry*, Department of Chemistry, University of Pune, India. CGPA = 7.66

**2002-2005:** B. Sc. *Chemistry*, Abeda Inamdar College, University of Pune, India. 83% (Among top 5%)

### AWARDS AND MEMBERSHIPS

**2009 - 2012:** Senior Research Fellowship (SRF) by CSIR, India

**2007 - 2009:** Junior Research Fellowship (JRF) by CSIR, India

**2014:** NCL Research Foundation- NANAI NATU AWARD – 2013, Citation Awarded

**2011:** Best poster award, CRSI-Zonal Meet, NCL, Pune, India

**2004 – 2005:** Member of *Exploratory* (Intercollegiate Scientific Educational Organization)

**2003 –2005:** Member of *National Service Scheme* (Empowerment of women in rural area)

### ADDITIONAL TRAINING

- Certification Course on Patents for Scientists and Engineers – 7<sup>th</sup> -14<sup>th</sup> Feb 2014, IP Facilitation Center (IPFACE), NCL Innovation Park, Pune, India.
- Training in basic Biochemistry techniques, Exploratory Project, University of Pune, India, 2004.

## **CONFERENCE CONTRIBUTIONS**

### **Posters:**

1. *Kármán Conference – Materials for Life, Biomimetic Hydrogels*, Bergisch Gladbach, Germany, 04/2018.
2. *International Symposium of Chemical Biology - 2018*, Campus Biotech, Geneva, Switzerland, 01/ 2018
3. *Cell Physics Conference*, University of Saarland, Germany, Oct 11-13, 2017.
4. *FEBS Workshop – Biological Surfaces and Interfaces: Interface Dynamics*, San Feliu, Spain, 07/2017.
5. *Biointerfaces International 2016*, University of Zurich, Switzerland, 08/2016.
6. *ENGINEERING LIFE: Synthetic Biology meets Bioinspired Materials*, Dresden, Germany, 09/ 2015.
7. *Gesellschaft Deutscher Naturforscher und Ärzte Meeting*, Gutenberg Uni., Mainz, Germany, 09/ 2014.
8. *National Magnetic Resonance Society-2013*, IIT Bombay, India, 02/2013.
9. *International Meeting on Chemical Biology -2013*, IISER, Pune, India, 05/ 2013.
10. *National Science Day*, NCL, Pune, India, 02/2013 and 02/2012.
11. 1<sup>st</sup> *CRSI - Zonal Meeting*, NCL, Pune, India, 05/ 2011 (**Won the best poster award**)
12. 8<sup>th</sup> *Peptide Engineering Meeting (PEM8-2018)* - Freie Universität Berlin, Germany, 11/2018

### **Talks:**

1. *NCL-IGIB meeting*, NCL, Pune, India, 09/2009.
2. Nobel Laureate Prof. Dr. Jean Marie Lehn's visit, NCL, Pune, India, 02/2010.
3. Annual Computational meet, NCL, Pune, India, 05/2011.
4. *National Conference on Chirality -2013*, The MS University of Baroda, Vadodara, India, 12/2013.
5. *Biointerfaces Colloquium*, Leibniz-INM, Germany, 03/2018.

## **PUBLICATIONS:** 13 peer reviewed publications, 1 ChemRxiv, As Author Name: **Roshna V. Nair**

1. *Adv. Healthcare Mater.* 2021, **10**, 2100488
2. *Dev Cell*, 2019, **51(4)**, 460–475.
3. *Nature*, 2018, **563**, 203–208.
4. *ChemBioChem.*, 2018, **19**, 1280-1287.
5. *J. Am. Chem. Soc.*, 2013, **135**, 11477-11480.
6. *Chem. Commun.*, 2014, **50**, 13874-13884.
7. *Org. Biomol. Chem.*, 2014, **12**, 774-782.
8. *RSC Adv.*, 2014, **4**, 7058-706.
9. *Eur. J. Org. Chem.* 2014, **35**, 7763–7780.
10. *New J. Chem.*, 2015, **39**, 3327-3332.
11. *Org. Biomol. Chem.*, 2013, **11**, 8348-8356.
12. *Eur. J. Org. Chem.*, 2013, 3529-3542.
13. *Org. Biomol. Chem.*, 2015, **13**, 3064-3069.
14. <http://doi.org/10.26434/chemrxiv.12609545.v1>

## **PERSONAL PROFILE**

Nationality: Indian

DOB: 09-01-1985

Civil Status: Married + 1 Child (born on Nov 2019)

Languages: English, German (B1+), Hindi, Malayalam

**SPECIAL INTERESTS AND HOBBIES:** Music, reading and writing, learning languages and cultures, yoga, travelling, intercultural events.

**Place:** Berlin, Germany, March 2022