

# National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

## Curriculum Vitae



Brief Profile: 1-2 paragraphs (not exceeding 500 words)

Dr Jothi Lakshmi Nallasivam received her B.Sc. and M.Sc. degrees in organic chemistry from the University of Mysore, Mysore, Karnataka, India. I have stint of experience in Biocon, Syngene International Ltd Bangalore. With CSIR research fellowship joined Department of Chemistry, IIT-Bombay to pursue Ph.D under the mentorship of Prof. Rodney A. Fernandes. Later, carried out the postdoctoral research in the laboratory of Prof. Tushar Kanti Chakraborty in the Department of Organic Chemistry, Indian Institute of Science Bangalore from 2017 to 2019. At present, joined as Assistant Professor, National Institute of Technology Tiruchirappalli, since 20<sup>th</sup> May 2020 to till date. The research interest focuses on the development of new methodologies and the synthesis of biologically active natural products.

1. Name: Dr. Jothi Lakshmi Nallasivam
2. Designation: Assistant Professor
3. Office Address: CH215, Department of Chemistry, OJAS Building, NIT Trichy-620015
4. Telephone (Direct) (Optional):  
Telephone: Extn (Optional):  
Mobile (Optional):
5. Email (Primary): jothi@nitt.edu      Email (Secondary): jothilakshmi83@gmail.com
6. Field(s) of Specialization: Organic Chemistry

### 7. Employment Profile

Job Title	Employer	From	To
Assistant Professor	NIT Trichy	20.05.2022	Till date
Postdoctoral Fellow	IISc Bangalore	16.08.2017	30.04.2019
CSIR Project JRF	IIT Bombay	20.04.2009	06.07.2011
Scientist	Syngene Intl Ltd, Bangalore	02.11.2006	30.12.2007

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8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
PhD	IIT Bombay	2017	8.95	Organic Chemistry
M.Sc	University of Mysore	2006	First	Organic Chemistry
B.Sc	University of Mysore	2004	First	Chemistry

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/ Institution	From	To
PG Lab Coordinator	Chemistry	August 2020	Till date
DPEC member	Chemistry	December 2020	May 2021
Stock verification officer	Chemistry	2020-21	2020-22
Skill Test Committee member	NITT staff recruitment	16.07.2021	16.07.2021
Anti-ragging committee member	NITT	18.06.2022	-

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2017	Best Thesis Award	IIT Bombay

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2010	CSIR-JRF	CSIR New Delhi	July 2010	July 2012
2012	CSIR-SRF	CSIR New Delhi	August 2012	August 2015
2017	NPDF	DST-SERB	August 2017	April 2019

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13. Details of Academic Work

(i) Curriculum Development

**(ii) Courses taught at Postgraduate and Undergraduate levels**

B.Tech Theory: CHIR 11 Chemistry

B.Tech Laboratory: CHIR 12 Chemistry

**PG Chemistry:**

CH609 Organic Preparation and Separation Lab

CH625 Medicinal Chemistry

CH629 polymer chemistry

**(iii) Projects guided at Postgraduate level**

Mopi Lollen (2019-2021)

Keerthivasan (2020-2022)

Sivaranjani (2020-2022)

(iv) Other contribution(s):

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Synthetic Modulation of Ti(III)-Mediated Radical Cyclization: Applications towards the Synthesis of Carbo-/Aza-/Oxa-cycles and Fenestrane Based Sesquiterpene Natural Products	DST-SERB	16.08.2017	30.04.2019	Completed
Transition Metal Catalyzed Carbo-functionalization of Conjugated Alkene System: En Route to Natural and Drug Cores	DST-SERB	13.12.2021	12.12.2024	Ongoing

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role (Supervisor/ Co-Supervisor)	Year of Award
Ashish Kumar Tiwari		Supervisor	Ongoing
Kiruthika N		Supervisor	Ongoing

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (Internatio	Role (Participant/ Speaker/	Event Organized by	Venue
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		nal/ National/ Local)	Chairperson, Paper presenter, Any other)		
20.01.2016	Aymmetric Allylation of Imines Catalyzed by Chiral $\pi$ -Allyl Palladium Complexes	ACS on Campus	Oral	IITB-ACS	IIT Bombay
12-13 <sup>th</sup> February 2016	A Cascade aza-Cope/aza-Prins Cyclization Leads to Piperidine Derivatives: New Ligands for Suzuki-Miyaura Cross Coupling Reactions	National 28th RSM 2016	Oral	Takur College of Science and Commerce	Mumbai
21-23 <sup>rd</sup> August 2015	A Cascade aza-Cope/aza-Prins Cyclization Leads to Piperidine Derivatives: New Ligands for Suzuki-Miyaura Cross Coupling Reactions	RAICS 2015	Oral	MNIT, Jaipur	Jaipur
10-13 <sup>th</sup> November 2015	A Cascade aza-Cope/aza-Prins Cyclization Leads to Piperidine Derivatives: New Ligands for Suzuki-Miyaura Cross Coupling Reactions	16th Tetrahedron Symposium; Asia Edition,	Poster	SIOC	China
7-9 <sup>th</sup> February 2014	Asymmetric catalysis and its applications in natural product synthesis	16th CRSI National Symposium in Chemistry (NSC-15),	Poster	IIT Bombay	IIT Bombay
4-6 <sup>th</sup> December 2014	Enantioselective Allylation of Imines Catalyzed by (-)-Pinene	10th J-NOST Symposium in	Poster	IIT Madras	Chennai

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	Based $\pi$ -Allyl Palladium Catalyst: An Efficient Synthesis of (R)- $\alpha$ -Propylpiperonylamine and (R)-Pipelic Acid	Chemistry			
1-3 <sup>rd</sup> February 2013	Enantioselective Allylation of Imines Catalyzed by (-)-Pinene Based $\pi$ -Allyl Palladium Complexes.	15th CRSI National Symposium in Chemistry (NSC-15)	Poster	BHU Varanasi	UP
02.10.2012	Development of Menthane and (-)-Pinene Based Chiral $\pi$ -Allyl Palladium Catalysis in Asymmetric Allylation	IITB-ACS Symposium	Poster	IIT Bombay	IIT Bombay
27-28 <sup>th</sup> September	"(-)- $\beta$ -Pinane Based Chiral $\pi$ -Allyl Palladium Complexes Catalyzed Asymmetric Allylation of Imines.	3rd Indo-German Symposium on Frontiers of Chemistry	Poster	IIT Bombay	IIT Bombay

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
NITT Organic Chemistry Conference (NITTOCC)	National	16-18 <sup>th</sup> 2021	Coordinator	NITT, Chemistry

18. Invited Talks delivered

Topic	Date	Inviting Organization
Transition-Metal Catalyzed Cross-Coupling Reactions	05.03.2021	SRM Institute of Science and Technology

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and its Applications		
Aspects of Stereochemistry and Its Importance”	29.03.2021	VIVEKANANDA COLLEGE, Madurai
UV-Visible Spectroscopy and its Importance	29.03.2022	VIVEKANANDA COLLEGE, Madurai

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date

20. Academic Foreign Visits

Country	Duration of Visit	Programme
CHINA	8-14 <sup>th</sup> November 2015	Conference

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
Jothi L. Nallasivam and Rodney A. Fernandes	(-)- $\beta$ -Pinene-based $\pi$ -Allylpalladium Complex-Catalyzed Asymmetric Allylation of Bis-Imines	Chemistry Select	5	8301-8304	2020	2.309
Jothi L. Nallasivam and Rodney A. Fernandes	Catalytic Allylic Functionalization via $\pi$ -Allyl Palladium Chemistry	Organic Biomolecular Chemistry (Org.Biomol. Chem)	17	8647-8672	2019	3.876
Jothi L. Nallasivam	Titanocene(III)-Mediated 5-exo-trig	Journal Organic Chemistry ( <i>J.</i>	84	16124-16138	2019	4.354

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and Tushar Kanti Chakraborty	Radical Cyclization: En Route to Spirooxindole-Based Tetrahydrofuran and Bicyclic Lactone	<i>Org. Chem)</i>				
Jothi L. Nallasivam and Rodney A. Fernandes	Synthetic Modifications of Bifunctional Homoallylamines: Synthesis of 2-Arylpiperidines, (R)-Anatabine and (R)-Anabesine.	Synthetic Communication	49	2185	2019	2.007
Jothi L. Nallasivam and Rodney A. Fernandes	A protecting-group-free synthesis of (+)-nephrosteranic, (+)-protolichesterinic, (+)-nephrosterinic, (+)-phaseolinic, (+)-rocellaric acids and (+)-methylenolactocin	Organic and Biomolecular Chemistry ( <i>Org.Biomol. Chem)</i>	15	708–716	2017	3.876
Jothi L. Nallasivam and Rodney A. Fernandes	Pd-Catalyzed Site-Selective Mono-allylic Substitution and Bisarylation by Directed Allylic C–H Activation: Synthesis of anti- $\gamma$ -(Aryl,Styryl)- $\beta$ -hydroxy Acids and Highly Substituted Tetrahydrofurans	Journal of American Chemical Society ( <i>J. Am. Chem. Soc)</i>	138	13238–13245	2016	16.383
Jothi L. Nallasivam and Rodney A. Fernandes	A Concise Synthesis of (-) Analogues by Pd-catalyzed Suzuki-Miyaura Coupling from $\gamma$ -Vinyl- $\gamma$ -butyrolactone	Chemistry Select	1	5137–5140	2016	2.309
Pradnya H. Patil, Johti L. Nallasivam and Rodney A. Fernandes	Unimolecular 4-Hydroxypiperidines: New Ligands for Copper-Catalyzed <i>N</i> -Arylation	Asian Journal of Organic Chemistry ( <i>Asian. J. Org. Chem)</i>	4	552–559	2015	3.319
Jothi L.	Development of	European	2015	3558–	2015	3.054

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Nallasivam and Rodney A. Fernandes	Unimolecular Tetrakis(piperidin-4-ol) as a Ligand for Suzuki–Miyaura Cross-Coupling Reactions: Synthesis of Incrustoporin and Preclamol	Journal of Organic Chemistry ( <i>Eur. J. Org. Chem</i> )		3567		
Jothi L. Nallasivam and Rodney A. Fernandes	A Cascade Aza-Cope/Aza-Prins Cyclization Leading to Piperidine Derivatives	European Journal of Organic Chemistry ( <i>Eur. J. Org. Chem</i> )	2015	2012–2022	2015	3.054
Jothi L. Nallasivam and Rodney A. Fernandes	Enantioselective allylation of imines catalyzed by newly developed (–)- $\beta$ -pinene-based $\pi$ -allylpalladium catalyst: an efficient synthesis of ( <i>R</i> )- $\alpha$ -propylpiperonylamine and ( <i>R</i> )-pipecolic acid	Organic and Biomolecular Chemistry ( <i>Org. Biomol. Chem</i> )	10	7789–7800	2012	3.876

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number



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