



Dr. S. MUTHUSAMY, FASCh, FRSC
Professor and Head

Contact

Address : Department of Chemistry
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Academic Qualifications :

Certificate in Hindi(Hindi Teaching Scheme, New Delhi), German(Goethe Institute, Germany)
1986: M.Sc. Chemistry, Bharathiar University, Coimbatore – 641 046
1992: Ph.D. Organic Chemistry, University of Madras, Chennai – 600 005

Teaching Experience : 16 Years

Research Experience : 29 Years

Additional Responsibilities

1. Head, School of Chemistry
2. Director-Research, Bharathidasan University

Areas of Research

- ✓ Development of macrocycles and supramolecular chemistry
- ✓ Synthesis of new molecules with stereoselectivity
- ✓ Chemistry of carbenoids and carbocations
- ✓ Chemistry of diazocarbonyl compounds
- ✓ Metathesis reactions
- ✓ Green Chemistry

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	14	07
	PostDoc	01	01
	M.Phil.	09	-
Project	PG	50	06
	Summer Fellow	09	-

Publications

International		National		Others
Journals	Patents	Journals	Patents	Books / Chapters / Monographs
101	2	2	1	4

Cumulative Impact Factor (as per JCR) :	330
h-index :	26
i10 index :	70
Total Citations :	2250 (as on July 2021)

Funded Research Projects

Completed Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	DST	Jan. 1998	Jan. 2000	Studies on transition metal catalyzed reactions of α -diazo ketones	4.44
2	CSIR	Oct. 1999	Oct. 2004	Studies on transition metal catalyzed reactions of α -diazo ketones towards the synthesis of pharmaceutically important molecules	10.00
3	DST	July	July	Studies on carbonyl ylides towards the	9.42

		2002	2005	synthesis of terpenoid and alkaloid systems	
4	DST	May 2006	Nov. 2009	Studies on the transition metal catalyzed route to the synthesis of macrocyclic compounds and its supramolecular chemistry	22.00
5	MOEF	May 2007	May 2010	Studies on synthesis of valuable chemicals via an environment friendly route using ionic liquids and enzymes	19.72
6	CSIR	Jan. 2008	Jan. 2011	Studies on the synthesis of steroids from diazocarbonyl compounds using transition metal complexes as catalyst	21.15
7	UGC	July 2011	Dec. 2014	Studies on the synthesis of macrocyclic lactones and lactams via ring closing metathesis reaction	9.33
8	DST	Nov. 2011	Mar. 2015	Studies on the rhodium carbenoids towards the synthesis of spiro-heterocycles, indole alkaloids and their asymmetric reactions	54.42
9	DST-SERB	Apr. 2017	Dec. 2020	Investigation of O-, S- and Se-ylides via metallo-carbenoids towards the synthesis of sulfur / selenium heterocycles, macrocycles and indole alkaloids	57.25

Ongoing Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	CSIR	April 2019	March 2022	Studies on the synthesis of indole annulated heterocycles and macrocycles <i>via</i> ring-closing metathesis reactions	37.51

Consultancy Projects

S. No	Agency	Period		Project Title	Budget (Rs. In USD)
		From	To		
1	Dupont USA	Sept. 2007	Sept. 2016	MoU (Material Transfer / Biological Testing Agreement) signed with E. I. du Pont de Nemours and Company, USA	US \$10,000

Others

S. No	Agency	Period		Program Title	Budget (Rs. In lakhs)
		From	To		
1	Govt. and Pvt. agencies	24 Feb. 2011	26 Feb. 2011	National Conference on "Recent Trends in Organic Synthesis-2011"	13.56
				Unspent Deposited to University Fund	2.94
2	DST-SERB	17 Feb. 2017	18 Feb. 2017	Expert Committee meeting and Lecture Workshop in the area of Chemical Sciences on 17-18 Feb. 2017	6.00
3	AIU New Delhi	21 Jan. 2020	22 Jan. 2020	South Zone Student Research Convention: Anveshan 2020 (Exploration)	4.00

Patents

1. Jasra, R. V.; Muthusamy, S.; Badheka, Y. M. "A process for the preparation of an acylated aromatic ether using clay based catalyst" Patent granted in **India**, Pat No. 244658, 14 Dec **2010**
2. Jasra, R. V.; Muthusamy, S.; Badheka, Y. M. "Clay based eco-friendly catalytic process for the acylation of aromatic ethers to produce acylated aromatic ethers" Patent granted in **USA**, USA Pat. No. 6,730,814, 4 May **2004**
3. Mehta, G.; Maiya, B. G.; Muthusamy, S.; Chanon, M.; Julliard, M. "Novel hybrid molecules of a photosensitizer and a chemotherapeutic agent useful for chemotherapy and photodynamic therapy against cancer and allied diseases and process for their preparation" Patent granted in **France**, Pat. No. FR 9807228, 9 June **1998**

Distinctive Achievements / Awards

- Fellow of the Royal Society of Chemistry (FRSC), United Kingdom, **2021**
- Tamil Nadu Scientist Award (TANSA) in Chemical Sciences, Tamil Nadu, **2018**
- Council Member, Chemical Research Society of India (CRSI), Bangalore, **2017-20**
- SERB-PAC Co-opt member in Organic Chemistry, DST, New Delhi, **2015-18**
- Fellow, The Academy of Sciences, Tamil Nadu, **2015**
- Prof. M. S. Wadia Lecture Award, University of Pune, Pune, **2013**
- Council Member, National Organic Symposium Trust (NOST), Bangalore, **2011-14**
- Prof. S. Swaminathan Endowment Lecture Award, University of Madras, Chennai, **2011**
- Prof. S. Sivasubramanian Endowment Lecture Award, MKU, Madurai, **2011**
- 76th Indian Science Congress-MKU Eminent Scientist Award, Madurai, **2009**
- Royal Society-INSA fellowship, University of Manchester, UK, **2009**
- CRSI Bronze Medal lecture award, Indian Institute of Technology, Mumbai, **2006**
- Prof. D. K. Banerjee Memorial Lecture Award, IISc, Bangalore, **2003**
- Royal Society-INSA exchange fellowship, University of Exeter, UK, **2001**

- CSIR Young Scientist Award in Chemical Sciences, New Delhi, **1998**
- CSIR Pool Officership, University of Hyderabad, Hyderabad, **1995**
- Alexander von Humboldt Postdoctoral Fellowship, Germany, **1993**
- CSIR-UGC National Eligibility Test, New Delhi, **1988**

Overseas Exposure / Visits

1. Honorary Fellow, University of Manchester (Prof. E. J. Thomas), **United Kingdom**, Feb. 2009 - May 2009
2. Guest Scientist, Ruhr University, Bochum (Prof. W. Sander), **Germany**, Apr. 1994 - Apr. 1995 & Aug. 2004 - Oct. 2004
3. Guest Scientist, Technical University of Braunschweig, Braunschweig (Prof. W. Sander), **Germany**, July 1993 - Apr. 1994
4. Honorary Fellow, Exeter University (Prof. C. J. Moody), **United Kingdom**, Aug. 2001 - Dec. 2001

Membership in

Professional Bodies

1. Fellow, The Royal Society of Chemistry (RSC), United Kingdom, 2021
2. Life Member, Chemical Research Society (CRSI), India 2000
3. Member, The American Chemical Society (ACS), USA, 2015

Academic Bodies (such as Board of Studies etc.)

1. Member, Senate of Bharathidasan University, 2015-17
2. Member, Standing Committee on Academic Affairs, Bharathidasan Univ., 2015-17
3. Member, Intellectual Property Rights Cell, Bharathidasan University, 2018 – till date
4. Member, Academic Council, St. Joseph College, Tiruchirappalli, 2018
5. Member, Academic Council, Nehru Memorial College, Puthanampatti, 2015
6. Member, CAS-Applications Scrutiny Committee, Alagappa University, 2017
7. Member, Board of Studies in Dept. of Energy Science, Alagappa University, 2017-20
8. Member, Board of Studies in Dept. of Nano-Science, Alagappa University, 2017-20
9. Member, Academic Audit of Ayya Nadar Janaki Ammal College, Sivakasi, 2016
10. Member, Common Admission Test, Cochin University of Science and Technology
11. Member, Board of Studies in various colleges of Bharathidasan University
12. Member, Selection committee for various positions

Others

1. Member, Joint CSIR-UGC National Educational Test (NET), CSIR, New Delhi, 2007-16
2. Member, DST-SERB, National Postdoctoral and Early Career Research Award Schemes, New Delhi, 2015-16
3. Member, Open Source Drug Discovery program, CSIR, New Delhi, 2011
4. Member, Green chemistry program, Chennai, 2007

5. Member, Purchase committee, School of Chemistry, BDU, Trichy 2015 - till date

Resource persons in various capacities

Number of Invited / Special Lectures delivered: >100

Others

1. No. of PhD Produced : 14
2. No. of PhD Thesis evaluated : 62
3. No. of PhD Public Viva-Voce Examinations conducted : 22

Recent Publications

1. Muthusamy, S.; Malarvizhi, M.; Suresh, E. *Catalyst Free Synthesis of 3,1-Benzoxathiin-4-ones / 1,3-Benzodioxin-4-ones* **Org. Biomol. Chem.** 2021, 19, 1508-1513. <https://doi.org/10.1039/D0OB02543G> (Impact Factor: **3.4**).
2. Muthusamy, S.; Malarvizhi, M.; Suresh, E. *BF₃·OEt₂ Catalyzed Synthesis of 1,3-Thiazines / -Selenazines* **Asian J. Org. Chem.** 2021, 10, 170-175. <https://doi.org/10.1002/ajoc.202000563> (Impact Factor: **3.1**).
3. Muthusamy, S.; Prabhu, A.; Suresh, E. *Copper catalyzed synthesis of spiro-indolofurobenzopyrans: Tandem reactions of diazoamides and O-propargyl salicylaldehydes* **Org. Biomol. Chem.** 2019, 17, 8088-8093. [DOI:10.1039/c9ob01275c](https://doi.org/10.1039/c9ob01275c) (Impact Factor: **3.4**).
4. Muthusamy, S.; Balasubramani, A.; Suresh, E. "Boron Trifluoride Catalyzed Divergent Synthesis of 3-Alkenyl-3-amino-2-oxindoles and Spiro-indeneindolones from Propargylic Alcohols" **Adv. Synth. Catal.**, 2019, 361, 702 [DOI:10.1002/adsc.201801106](https://doi.org/10.1002/adsc.201801106) (Impact Factor: **5.8**).
5. Muthusamy, S.; Gangadurai, C. "On water" cascade synthesis of benzopyranopyrazoles and their macrocycles **Tetrahedron Lett.**, 2018, 59, 1501-1505 [DOI:10.1016/j.tetlet.2018.03.013](https://doi.org/10.1016/j.tetlet.2018.03.013) (Impact Factor: **2.3**).
6. Muthusamy, S.; Balasubramani, A.; Suresh, E. "A BF₃·Et₂O Catalyzed atom-economical approach to highly substituted indole-3-carbinols from nitrosobenzenes and propargylic alcohols" **Org. Biomol. Chem.**, 2018, 16, 756-764 [DOI:10.1039/c7ob02559a](https://doi.org/10.1039/c7ob02559a) (Impact Factor: **3.4**).
7. Muthusamy, S.; Balasubramani, A.; Suresh, E. "Boron Trifluoride Catalyzed Synthesis of 3-Alkylidene-3H-indole N-oxides via Tandem Reaction of Propargylic Alcohols and Nitrosobenzenes" **Adv. Synth. Catal.**, 2017, 359, 786-790 [DOI:10.1002/adsc.201601151](https://doi.org/10.1002/adsc.201601151) (Impact Factor: **5.8**).
8. Muthusamy, S.; Selvaraj, K.; Suresh, E. "Iodine mediated propargylic substitution/aza-Meyer-Schuster rearrangement: Stereoselective synthesis of conjugated unsymmetrical azines" **Tetrahedron Lett.**, 2016, 57, 4829-4833 [DOI:10.1016/j.tetlet.2016.09.055](https://doi.org/10.1016/j.tetlet.2016.09.055) (Impact Factor: **2.3**).
9. Muthusamy, S.; Kumar, M. D. S.; Suresh, E. "Synthesis of indole annulated [1,3]-thiazaheterocycles and -macrocycles via ring-closing metathesis" **ChemistrySelect**, 2016, 1, 2603-2609 [DOI:10.1002/slct.201600583](https://doi.org/10.1002/slct.201600583) (Impact Factor: **2.0**).
10. Muthusamy, S.; Kumar, M. D. S. "RuCl₃ Promoted Efficient Synthesis of Z-Selective Macroyclic Thiotetralactones via Ring Closing Metathesis" **ChemistrySelect**, 2016, 1, 2439-2443 [DOI:10.1002/slct.201600350](https://doi.org/10.1002/slct.201600350) (Impact Factor: **2.0**).

11. Muthusamy, S.; Kumar, S. G. "A highly stereoselective, catalytic four component synthesis of dispiroindolo-pyrrolidines/-imidazolidines via azomethine ylides" **Tetrahedron**, 2016, 72, 2392-2401 [DOI:10.1016/j.tet.2016.03.046](https://doi.org/10.1016/j.tet.2016.03.046) (Impact Factor: **2.4**).
12. Muthusamy, S.; Gangadurai, C. "Domino Reactions of Bis-diazo Compounds: Rhodium(II) Acetate Catalyzed Diastereoselective Synthesis of Epoxy- and Epithio-bridged Heterocycle Fused Quinolizinone Analogues" **Synthesis**, 2016, 48, 2213-2225 [DOI:10.1055/s-0035-1560441](https://doi.org/10.1055/s-0035-1560441) (Impact Factor: **2.7**).
13. Muthusamy, S.; Balasubramani, A.; Suresh, E. "Rhodium(II) Acetate Catalyzed Intramolecular Cyclopropanation Followed by Ring Opening of Furan toward Oxindole Incorporated Macrocycles" **Tetrahedron**, 2016, 72, 1749-1757 [DOI:10.1016/j.tet.2016.02.032](https://doi.org/10.1016/j.tet.2016.02.032) (Impact Factor: **2.4**).
14. Muthusamy, S.; Selvaraj, K.; Suresh, E. "Diastereoselective Synthesis of Macrocyclic Spiro- and Dispiro-1,4-dithianes, -oxathianes, -dithiepanes via Intramolecular Sulphonium Ylides" **Eur. J. Org. Chem.** 2016, 1849-1859 [DOI:10.1002/ejoc.201600008](https://doi.org/10.1002/ejoc.201600008) (Impact Factor: **2.9**).
15. Muthusamy, S.; Kumar, S. G. "Copper(I) catalyzed diastereoselective multicomponent synthesis of spiroindolo-pyrrolidines/-imidazolidines/-triazolidines from diazoamides via azomethine ylides" **Org. Biomol. Chem.** 2016, 14, 2228-2240 [DOI:10.1039/c5ob02322j](https://doi.org/10.1039/c5ob02322j) (Impact Factor: **3.4**).
16. Muthusamy, S.; Selvaraj, K.; Suresh, E. "Diastereoselective Synthesis of Macrocyclic Spiro- and Dispiro-1,4-dithianes, -oxathianes, -dithiepanes via Intramolecular Sulphonium Ylides" **Asian J. Org. Chem.** 2016, 5, 162-172 [DOI:10.1002/ajoc.201500406](https://doi.org/10.1002/ajoc.201500406) (Impact Factor: **3.1**).
17. Muthusamy, S.; Ramkumar, R. "Diastereoselective Synthesis of Macrocyclic Spiro- and Dispiro-1,4-dithianes, -oxathianes, -dithiepanes via Intramolecular Sulphonium Ylides" **Synlett**, 2015, 2156-2160 [DOI:10.1055/s-0034-1378828](https://doi.org/10.1055/s-0034-1378828) (Impact Factor: **2.4**).
18. Muthusamy, S.; Ramkumar, R. "On-water" generation of carbonyl ylides from diazoamides: Rhodium(II) catalyzed synthesis of spiroindolo-oxiranes and -dioxolanes with an interesting diastereoselectivity **Tetrahedron**, 2015, 71, 6219-6226 [DOI:10.1016/j.tet.2015.06.076](https://doi.org/10.1016/j.tet.2015.06.076) (Impact Factor: **2.4**).
19. Muthusamy, S.; Sivaguru, M.; Suresh, E. "Indium(III) chloride catalyzed highly diastereoselective domino synthesis of indenodithiepinines and indenodithiocines" **Chem. Commun.** 2015, 51, 707-710 [DOI:10.1039/c4cc07280d](https://doi.org/10.1039/c4cc07280d) (Impact Factor: **6.3**).
20. Muthusamy, S.; Sivaguru, M. "Atom-economical access to highly substituted indenenes and furan-2-ones via tandem reaction of diazo compounds and propargyl alcohols" **Org. Lett.** 2014, 16, 4248-4251 [DOI:10.1021/ol501942y](https://doi.org/10.1021/ol501942y) (Impact Factor: **6.5**).
21. Muthusamy, S.; Ramkumar, R. "Rhodium(II) catalyzed highly diastereoselective synthesis of conformationally restricted dispiro[1,3-dioxolane]bisoxindoles" **Tetrahedron** 2014, 70, 5594-5607 [DOI:10.1016/j.tet.2014.06.085](https://doi.org/10.1016/j.tet.2014.06.085) (Impact Factor: **2.4**).
22. Muthusamy, S.; Karikalan, T. "Rhodium(II) catalyzed synthesis of macrocycles incorporating oxindole via O-H/N-H insertion reactions" **Org. Biomol. Chem.** 2014, 12, 9243-9256 [DOI:10.1039/c4ob01671h](https://doi.org/10.1039/c4ob01671h) (Impact Factor: **3.4**).
23. Muthusamy, S.; Ramkumar, R. "Solvent- and transition metal-free synthesis of spiro[cyclopropane-1,3-oxindoles] from cyclic diazoamides" **Tetrahedron Lett.** 2014, 55, 6389-6393 [DOI:10.1016/j.tetlet.2014.09.086](https://doi.org/10.1016/j.tetlet.2014.09.086) (Impact Factor: **2.3**).
24. Muthusamy, S.; Azhagan, D. *Titanium isopropoxide promoted tandem self-cross and ring-closing metathesis approach for the synthesis of macrotetralides* **Eur. J. Org. Chem.** 2014, 363-370 [DOI:10.1002/ejoc.201301239](https://doi.org/10.1002/ejoc.201301239) (Impact Factor: **2.9**).

25. Muthusamy, S.; Selvaraj, K. *Highly diastereoselective synthesis of dispiro-[1,4-dithiane/dithiepane] bisoxindoles via Stevens rearrangement* **Tetrahedron Lett.** 2013, 54, 6886-6888 DOI:10.1016/j.tetlet.2013.10.030 (Impact Factor: **2.3**).
26. Muthusamy, S.; Sivaguru, M. *Synthesis of conformationally restricted C₂ symmetric macrodiolides via head to tail dimerization of carbonyl ylides* **Tetrahedron Lett.** 2013, 54, 6810-6813 DOI:10.1016/j.tetlet.2013.10.007 (Impact Factor: **2.3**).
27. Muthusamy, S.; Sivaguru, M.; Suresh, E. *Synthesis of conformationally restricted symmetric macrodiolides via carbonyl ylides* **Synthesis**, 2013, 2034-2042 DOI:10.1055/s-0033-1338801 (Impact Factor: **2.7**).

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events Organized : 11

1. Convener: National Convention on "South Zone Student Research Convention, Anveshan-2020 (Exploration)" at Bharathidasan University with the association of Association of Indian Universities, New Delhi, during 21-22nd Jan. **2020**
2. Coordinator: Refresher course on "Frontiers in Chemistry-2019" for college teachers conducted by Academic Staff College, Khajamalai Campus, Bharathidasan University, Tiruchirappalli during 20th Sept. to 3rd Oct. **2019**
3. Organized jointly the International Conference on Sustainable Energy Technologies (i-SET 2018) by the School of Chemistry and Physics, Bharathidasan University, Trichy during 27-28 June **2018**
4. Co-ordinator: Summer School in "Materials Science-2018" for college teachers UGC-Human Resource Development, Khajamalai Campus, Bharathidasan University, Tiruchirappalli during 2nd March to 22nd March **2018**
5. Co-ordinator: DST-SERB Expert Committee meeting in the area of Chemical Sciences was organized in School of Chemistry, Bharathidasan University during February 17-18, **2017**
6. Co-ordinator: DST-SERB Workshop on Mentoring Ph.D. Students and Young Faculty was organized in School of Chemistry, Bharathidasan University during February 17-18, **2017**
7. Chairman: National Workshop on Catalysis in Organic Transformations (NWCOT-2016), Organized in School of Chemistry, Bharathidasan University with the association of Royal Society of Chemistry, South India Section during October 20-21, **2016**
8. Co-Chairman: 10th Mid-Year CRSI National Symposium in Chemistry jointly organized with Department of Chemistry, National Institute of Technology and School of Chemistry, Bharathidasan University, Tiruchirappalli during July 23-25, **2015**
9. Co-ordinator: Refresher course on "Frontiers in Chemistry-2014" for college teachers Academic Staff College, Khajamalai Campus, Bharathidasan University, Tiruchirappalli during 1st Feb. 2014 to 21st Feb. **2014**
10. Convener: National Conference on "Recent Trends in Organic Synthesis-2011" (RTOS-2011) in Hotel SRM, Tiruchirappalli on the occasion of UGC-SAP program of the School of Chemistry and International Year of Chemistry during 24-26th Feb. **2011**

11. Co-ordinator: Refresher course on “*Frontiers in Chemistry-2010*” for college teachers Academic Staff College, Khajamalai Campus, Bharathidasan University, Tiruchirappalli during 6th Oct. 2010 to 26th Oct. 2010

Events Participated

Conferences / Seminars / Workshops : 170

1. Muthusamy, S. has participated as a resource person in the UGC sponsored online Refresher Course on Design, Synthesis and Applications of Organic Compounds conducted by the Department of Organic Chemistry, University of Madras, **Chennai** - 600 025 during 27th Jan. 2021 to 9th Feb. 2021 and two lectures delivered entitled “Studies on Rhodium Carbenoids for Synthesis” and “Synthesis using Propargyl Alcohols” on 29th Jan. 2021
2. Muthusamy, S. has participated as a resource person in the UGC sponsored online Refresher Course in Nano Science conducted by the Department of Physics, Bharathidasan University, **Tiruchirappalli** - 620 024 during 25th Nov. 2020 to 8th Dec. 2020 and the lecture delivered on 7th Dec. 2020
3. Muthusamy, S. has delivered the invited lecture entitled on “*Principles and applications of NMR spectroscopy*” in the Webinar conducted by the CRSI **Trichy-Madurai** Local Chapter on the occasion of CRSI National Chemistry Week Celebrations during 1-7th nov. 2020 and the lecture delivered on 6th Nov. 2020
4. Muthusamy, S. has delivered the invited lecture entitled on “*An overview of NMR spectroscopy*” in the Webinar Series on Spectroscopy and Heterocyclic Chemistry conducted by the Queen Mary’s College, **Chennai** - 600 004 during 27-28th July 2020 and the lecture delivered on 27th July 2020
5. Muthusamy, S. has delivered the lecture entitled on “*Investigation of O-, S- and Se-ylides via metallo-carbenoids towards the synthesis of sulfur/selenium heterocycles, macrocycles and indole alkaloids*” in the Group Monitoring Workshop conducted by SERB, Government of India at Indian Institute of Science and Education Research, **Pune** - 411 008 on 28th Jan. 2020
6. Muthusamy, S. has delivered the invited lecture entitled on “*Research Awareness for Students*” in the Workshop for Research Scholars conducted by the Periyar University, **Salem** - 636 011 on 28th Nov. 2019
7. Muthusamy, S. has delivered the invited lecture entitled on “*Characterization of Chemical Structures: An overview of NMR and IR spectroscopy*” in the Refresher Course conducted by the Department of Botany, Bharathidasan University, **Tiruchirappalli** - 620 024 on 29th July 2019
8. Muthusamy, S. has delivered the invited lecture entitled on “*Opportunities for Chemistry Graduates and Post-Graduates*” in the Chemistry Association of Department of Chemistry, St. Joseph College, **Tiruchirappalli** - 620 002 on 23rd July 2019
9. Muthusamy, S. has delivered the invited lecture on “*Boron trifluoride catalyzed synthesis of indole analogues using propargylic alcohols*” International Conference on Chemical Science and Nanomaterials (ICCSN) - 2019 held at Department of Chemistry, VIT, **Vellore** - 632 014 during 7th – 9th March 2019 and the lecture delivered on 9th March 2019
10. Muthusamy, S. has delivered the invited lecture entitled on “*Boron trifluoride catalyzed synthesis of indole analogues using propargylic alcohols*” National seminar on Recent Advances in Chemistry (NSRAC) - 2019 held at Department of Chemistry, Pondicherry University,

Puducherry - 605 014 during 4th – 5th March 2019 and the lecture delivered on 4th March 2019

11. Naveen, R. and Muthusamy, S.; Poster entitled on "*Synthesis of spirocyclic- and fused sulphur heterocyclic indole analogs*" was presented in 24th CRSI National Symposium in Chemistry (CRSI-NSC-24) held at CLRI, **Chennai** jointly organized by CLRI and IIT Madras during Feb. 8-10, 2019. **Prof. G. Mehta Best Poster Award received**
12. Prabu, A. and Muthusamy, S.; Poster entitled on "*BF₃·OEt₂-Catalyzed synthesis of 3-alkylated oxindoles from diazoamides and chalcones*" was presented in 24th CRSI National Symposium in Chemistry (CRSI-NSC-24) held at CLRI, **Chennai** jointly organized by CLRI and IIT Madras during Feb. 8-10, 2019
13. Muthusamy, S. has delivered the invited lecture on "Characterization of chemical structures by NMR spectroscopy" Short Term Course on 'Analytical Techniques' held at Department of Chemistry, Annamalai University, **Chidambaram**, Tamilnadu during 03.12.2018 to 09.12.2018 and the lecture delivered on 6th December 2018
14. Balasubramani, A. and Muthusamy, S.; Oral presentation entitled on "*Boron trifluoride catalyzed synthesis of substituted indole scaffold using propargylic alcohols*" in the 14th JNST National Symposium for Research Scholars held at CSIR-IICT, **Hyderabad** during 28 Nov. 2018 to 01 Dec. 2018
15. Malarvizhi, M. and Muthusamy, S.; Poster entitled on "*BF₃·Et₂O Catalysed synthesis of 1,3-thiazines: reactions of propargyl alcohols and thioamides/isatin-β-thiosemicarbazones*" was presented in the 23rd CRSI National Symposium in Chemistry, held at IISER, **Bhopal**, during July 11-17, 2018
16. Balasubramani, A. and Muthusamy, S.; Poster presentation entitled on "*BF₃·Et₂O Catalyzed Divergent Synthesis of Spiro-indeneindolones from Propargylic Alcohols and Isatin Imines*" in the 23rd CRSI National Symposium in Chemistry, held at IISER, **Bhopal**, during July 11-17, 2018
17. Malarvizhi, M. and Muthusamy, S.; Poster entitled on "*Energy efficient synthesis of 1,3-thiazines*" was presented in International Conference on Sustainable Energy Technologies (i-SET-2018) held at Bharathidasan University jointly organized by School of Chemistry and School of Physics, Bharathidasan University, Tiruchirappalli during June 27-28, 2018
18. Prabhu, A. and Muthusamy, S.; Poster entitled on "*Energy efficient synthesis of spiro-indolofuopyrans*" was presented in International Conference on Sustainable Energy Technologies (i-SET-2018) held at Bharathidasan University jointly organized by School of Chemistry and School of Physics, Bharathidasan University, Tiruchirappalli during June 27-28, 2018
19. Balasubramani, A. and Muthusamy, S.; Poster presentation entitled on "*Development of a catalytic method for an atom-economical access to highly substituted indoles*" in the 2nd International Conference on Recent Trends in Analytical Chemistry (ICORTAC-2018) held at Department of Analytical Chemistry, University of Madras, **Chennai**, during March 15-17, 2018
20. Muthusamy, S. delivered the lecture on "*Water mediated diastereoselective synthesis of spiroindolo-oxiranes, dioxolanes and cyclopropanes*" on 15th March 2018 in the second International Conference on Recent Trends in Analytical Chemistry (ICORTAC-2015) organized by Department of Analytical Chemistry, University of Madras in association with

Indian Society of Analytical Scientists, **Chennai** – 620 025 during 15-17th March 2018 (also Organizing Committee Member)

21. Muthusamy, S. delivered the Lecture on "*Stereochemistry of Organic Molecules*" Recent Trends in Chemical Sciences organized by Department of Chemistry, Sri Ramakrishna College of Arts and Science, **Coimbatore** during 23rd Feb. 2018 sponsored by Chemical Research Society of India (CRSI)
22. Muthusamy, S. delivered two lectures on "*Studies on the reactions of carbonyl ylides towards oxygen-heterocycles*" and "*Lewis Acid Catalyzed Synthesis of Highly Substituted Indoles and Indol-3-carbinols*" in the Emerging trends in Chemical Sciences organized by Department of Chemistry, Bharathiar University, **Coimbatore** during 15-17 Feb. 2018 sponsored by Indian Science Academy
23. Muthusamy, S. has participated as Teachers Seminar Evaluator in the UGC Sponsored Refresher Course in Nanosciences and Nanotechnology for College Teachers, Bharathidasan University, **Tiruchirappalli** on 7th Jan. 2018
24. Muthusamy, S. delivered the lecture on "*Lewis acid catalyzed synthesis of highly substituted indoles and indol-3-carbinols*" in the XXXVI Annual Conference 2017 of Indian Council of Chemists held at School of Chemistry, Andhra University, **Visakhapatnam-530003** during 26-28 December 2017 on 26th Dec. 2017
25. Muthusamy, S. delivered the lecture on "*Molecular Machines*" UGC Sponsored Refresher Course in Nanosciences (Inter-disciplinary) for College Teachers, Bharathidasan University, **Tiruchirappalli** on 23rd Dec. 2017
26. Muthusamy, S. delivered the lecture on "*Characterization of Chemical Structures: An overview of NMR, IR and Mass spectroscopy*" UGC Sponsored Refresher Course for College Teachers, Bharathidasan University, **Tiruchirappalli** on 15th Nov. 2017
27. Prabu, A. and Muthusamy, S.; Poster presentation entitled on "*Synthesis of spiro-indolofuopyrans: Copper-catalyzed tandem reaction of diazoamides and o-propargylated aldehydes*" was presented in 21st CRSI National Symposium in Chemistry held at IICT, **Hyderabad**, July 13-16, 2017
28. Muthusamy, S. delivered the lecture on "*Synthesis of Highly Substituted Indoles*" in the National Conference on Frontier Areas in Chemical Sciences (FACS-2017) organized by Department of Chemistry, VHNSN College, **Virudhunagar**, TN on the eve of Post Graduate Golden Jubilee Celebrations on 23rd June 2017
29. Muthusamy, S. delivered the lecture on "*Metallo-carbenoids in water and ionic liquids*" in the National Conference on Innovations in Green Chemistry organized by Department of Chemistry, PSG College of Arts and Science, **Coimbatore** on 17th March 2017
30. Muthusamy, S. delivered the lecture on "*Synthesis of highly substituted indoles*" in the TEQIP II sponsored International Conference on Advances in Biological, Chemical and Physical Sciences (ABCPS-2017) organized by Biotech, Chemistry and Physics Departments of BIT Campus, Anna University, **Tiruchirappalli** during 13-15th March 2017 on 15th March 2017
31. Muthusamy, S. delivered the special lecture on "*Chemistry of propargyl alcohols: Synthesis of substituted indoles*" in the Department of Chemistry, School of Advanced Sciences, VIT University, **Vellore** on 3rd March 2017
32. Muthusamy, S. delivered the special lecture on "*An economical access to highly substituted indoles*" in the National Seminar on Recent Research Trends in Chemistry-2017 organized by

PG and Research Department of Chemistry, Thiruvalluvar Govt. Arts College, **Rasipuram** on 10th Feb. 2017

33. Muthusamy, S. delivered the lecture on "*Diastereoselective synthesis of macrocycles incorporating spiro-oxindole unit via sulfonium ylides*" by K. Selvaraj, E. Suresh, and S. Muthusamy in the International conference on Organic Synthesis-21 (ICOS-21) held at Department of Chemistry, IIT Bombay, **Mumbai** during 11th to 16th December 2016 on 15th Dec. 2016
34. Balasubramani, A. and Muthusamy, S.; Poster presentation delivered by Mr. Balasubramani on "*BF₃.Et₂O Catalyzed Reaction of Propargylic Alcohols with Nitrosobenzenes: An Atom-Economical Access to Highly Substituted Indoles*" in the 12th JNST National Symposium for Research Scholars held at Central Drug Research Institute, **Lucknow** during 24-27 November 2016
35. Muthusamy, S. delivered the lecture on "*Macrocycles, Catenanes and Rotaxanes towards Molecular Machines*" in UGC Refresher Course for College Teachers held at Bharathidasan University, **Tiruchirappalli** on 11th Nov. 2016
36. Muthusamy, S. delivered the lecture on "*Copper(I) catalyzed diastereoselective synthesis of spiro-indoloheterocycles towards biological applications*" in One day Lecture Workshop on "Recent Advances in Chemical Sciences" at Department of Chemistry, Mother Teresa University, **Kodaikanal**, Tamil Nadu on Sept. 23, 2016
37. Muthusamy, S. delivered the inaugural address and keynote lecture on "*Introduction to materials science and understanding at the molecular level*" TEQIP-II sponsored National Conference on Research Advances and Material Science and Applications, BIT campus, **Tiruchirappalli** on 19th Aug. 2016
38. Muthusamy, S. delivered the lecture on "*Diastereoselective synthesis of spiro-indoles via copper(I) carbenoids*" in UGC Refresher Course for College Teachers held at Bharathiar University, **Coimbatore** on 22nd Jul. 2016
39. Muthusamy, S. delivered the lecture on "*NMR spectroscopy: Fundamentals, concepts and applications*" in UGC Refresher Course for College Teachers held at Bharathiar University, **Coimbatore** on 22nd Jul. 2016
40. Muthusamy, S. delivered the lecture on "*Demonstration of 9-21-membered macrocyclic sulfonium ylides: Diastereoselective synthesis of spiro-oxindole incorporated macrocycles*" in the CRSI-National Seminar on Emerging Trends in Chemistry, organized by School of Chemistry, Madurai Kamaraj University, **Madurai** during 18-20 Feb. 2016
41. Ganesh Kumar, S. and Muthusamy, S.; Poster presentation on "*Copper(I) catalysed diastereoselective synthesis of spiroindolo-pyrroles/-imidazoles/-triazoles via [3+2] cycloaddition of azomethine ylides*" in the CRSI-National Seminar on Emerging Trends in Chemistry, Madurai Kamaraj University, **Madurai** during 18-20 Feb. 2016
42. Balasubramani, A. and Muthusamy, S.; Poster presentation on "*Rhodium(II) acetate catalyzed intramolecular cyclopropanation followed by ring opening of furan toward oxindole incorporated macrocycles*" in 18th CRSI National Symposium in Chemistry held at Panjab University, **Chandigarh**, Feb. 4-7, 2016
43. Selvaraj, K. and Muthusamy, S.; Poster presentation on "*Demonstration of 9-21-membered macrocyclic sulfoniumylides: Diastereoselective synthesis of macrocycles incorporating spiro and dispiro-oxindole*" in 18th CRSI National Symposium in Chemistry held at Panjab University, **Chandigarh**, Feb. 4-7, 2016

44. Prabu, A. attended the workshop on "*1D and 2D NMR Spectroscopic Techniques*" organized by Department of Chemistry, NIT, **Tiruchirappalli** during Jan. 21-22, 2016
45. Indumathi, P. attended the workshop on "*1D and 2D NMR Spectroscopic Techniques*" organized by Department of Chemistry, NIT, **Tiruchirappalli** during Jan. 21-22, 2016
46. Muthusamy, S. delivered the lecture on "*Rhodium(II) catalyzed synthesis of macrocycles towards sensors*" on 29th Dec. 2015 in the International Conference on Recent Trends in Analytical Chemistry (ICORTAC-2015) organized by Department of Analytical Chemistry, University of Madras in association with Indian Society of Analytical Scientists, **Chennai** – 620 025 during 28-30th December 2015
47. Muthusamy, S. delivered the lecture on "*Rhodium(II) catalyzed synthesis of macrocycles*" on 19th Dec. 2015 organized by PG & Research Department of Chemistry, School of Physical Sciences, St. Joseph's College (Autonomous), **Tiruchirappalli** – 620 002 and Science Academies Sponsored Three Days Lecture Workshop on "Emerging Trends in Chemistry" during 18-20th December 2015
48. Muthusamy, S. delivered the lecture on "*Our Research Towards Green Chemistry Techniques*" on 31st Oct. 2015 organized by PSG College of Pharmacy, PSG institutions, **Coimbatore** on Green Chemistry during 30-31st October 2015
49. Ganesh Kumar, S. and Muthusamy, S.; Oral presentation delivered by Mr. S. Ganesh Kumar on "*Copper(I) catalyzed diastereoselective synthesis of spiroindolo-pyrroles/-imidazoles/-triazoles via [3+2]-cycloaddition of azomethine ylides*" in the Organic Chemistry Conference - 17th NOST National Symposium held at **Jaipur** during 27-30 October 2015
50. Muthusamy, S. delivered the lecture on "*Rhodium(II) catalyzed synthesis of Macrodilides (Part I and II)*" UGC Refresher course for college teachers, Academic Staff College, University of Madras, **Chennai** on 21st Aug. 2015
51. Muthusamy, S. attended the workshop on "Innovative Curriculum Designing and Evaluation" organized for the Chairman and Members of Board of Studies On 14-08-2015 in the Convocation Hall, Bharathidasan University, **Tiruchirappalli** – 620 024
52. Muthusamy, S. delivered the lecture on "*Rhodium(II) and Lewis acid catalyzed synthesis of macrocycles, carbocycles and heterocycles*" in tenth mid-CRSI National Symposium in Chemistry held at NIT, **Tiruchirappalli**, July 23-25, 2015
53. Selvaraj, K. and Muthusamy, S.; "*Diastereoselective Synthesis of Macrocylic Spiro-oxindoles via Sulfonium Ylides*" Poster presentation in tenth mid-CRSI National Symposium in Chemistry held at NIT, **Tiruchirappalli**, July 23-25, 2015
54. Gangadurai, C. and Muthusamy, S.; "*Rhodium(II) acetate catalyzed tandem reactions of bis-diazopiperidin-2-ones*" Poster presentation in tenth mid-CRSI National Symposium in Chemistry held at NIT, **Tiruchirappalli**, July 23-25, 2015
55. Muthusamy, S. delivered the lecture on "*Studies on the synthesis of macrocycles*" in Chemistry Association of Department of Chemistry, SRC College, **Tiruchirappalli** on 13th July 2015
56. Muthusamy, S. delivered inaugural address and invited lecture on "*Studies on the synthesis of macrodilides*" in Frontiers Research in Applied Sciences (FRAS-2015) held at Department of Chemistry, Anna University, **Tiruchirappalli** on 3rd June 2015

57. Senthil Kumar, M. D. and Muthusamy, S.; "*Synthesis of indole fused N,S-heterocycles via ring closing metathesis*" Poster presentation in Seventeenth CRSI National Symposium in Chemistry (NSC-17) held at NCL, **Pune**, Feb. 6-8, 2015
58. Muthusamy, S. delivered the lecture on "*Stereoselective synthesis of spiroheterocycles from 3-diazo-2-oxindoles via rhodium carbenoids*" in the National conference on "Chemistry for sustainable energy, clean environment and health" organized by the Department of Chemistry, Manonmaniam Sundaranar University, **Thirunelveli** during 21-22 Jan. 2015 on 22nd Jan. 2015
59. Muthusamy, S. chaired the session and delivered an invited talk on 10th Dec. 2014 entitled on "*Synthesis of symmetric and unsymmetrical macrocycles via rhodium(II) carbenoids*" in the 51st Annual Convention of Chemists organized by Indian Chemical Society and Department of Chemistry, Kurukshetra University, **Kurukshetra** during 9-12 Dec. 2014
60. Ganesh Kumar, S. and Muthusamy, S.; Oral presentation by Mr. S. Ganesh Kumar on "*Diastereoselective synthesis of spiroindolo-pyrroles/-imidazoles/-triazoles via azomethine ylides in the presence of copper(I) catalyst*" in the 10th JNOST National Symposium for Research Scholars held at Department of Chemistry, IIT, **Chennai** during 4-6 December 2014
61. Ganesh Kumar, S. and Muthusamy, S.; Oral presentation by Mr. S. Ganesh Kumar on "*Diastereoselective synthesis of spiroindolo-pyrroles/-imidazoles/-triazoles via azomethine ylides in the presence of copper(I) catalyst*" in the TEQIP-II Sponsored Two day's International Conference on "Chemistry and Materials (ICCM-2014)" held at BIT campus, Anna University, **Tiruchirappalli** during 14-15 November 2014
62. Senthil Kumar, M. D. and Muthusamy, S.; Poster presented on "*RuCl₃ Promoted efficient synthesis of Z-selective macrocyclic thiotetralactones via ring closing metathesis*" in the National Symposium on "Transcending Frontiers in Organic Chemistry (TFOC-2014)" held at NIIST, **Thiruvananthapuram** during 9-11 Oct. 2014
63. Muthusamy, S. delivered inaugural address and invited talk on "*Magic of rhodium(II) acetate as a catalyst: Synthesis of indole derived heterocycles*" in the State level seminar on "Synthetic reactions and catalysis" organized by Theivanai Ammal college for women, **Villupuram** on 1st Oct. 2014
64. Gangadurai, C. has participated in the National Level Workshop on NMR Spectroscopy Organized by Institute for Intensive Research in Basic Sciences (IIRBS), Mahatma Gandhi University, **Kottayam**, Kerala during 10-13 Sept. 2014
65. Muthusamy, S. has participated the XVI-NOST-Organic Chemistry Conference (NOST-OCC) as a Council Member at Jaypee Palace Hotel, **Agra** during April 4-7, 2014
66. Muthusamy, S. participated in Science Academies sponsored two days lecture workshop on "Recent advances in materials chemistry" organized by Department of Chemistry, BIT, Anna University, **Tiruchirappalli** during 7-8th March 2014
67. Muthusamy, S. delivered the lecture on "*Applications of 1,3-dipoles in organic synthesis*" in DST Sponsored Two day National workshop on "Current Trends in Chemistry" organized by Arul Anandar College, Karumathur, **Madurai** on 26th and 27th February, 2014. The event was inaugurated and delivered as a keynote address on 26th February 2014
68. Muthusamy, S. delivered a lecture on "*Intellectual property rights (IPR)*" in IQAC, Jamal Mohammed College, **Tiruchirappalli** on 10th February 2014

69. Muthusamy, S. delivered the lecture on "*Synthesis of symmetric and unsymmetrical macrocycles via rhodium(II) carbenoids*" in International conference on "Chemistry-Frontiers and Challenges" organized by PSGR Krishnammal College for Women, **Coimbatore** during 5th to 7th February 2014 on 7th February 2014
70. Muthusamy, S. delivered the Endowment lecture on "*Synthesis of macrocycles via rhodium(II) carbenoids*" as Prof. Wadia Endowment Lecture Award that given by Department of Chemistry, University of Pune, **Pune** on 21st Jan. 2014
71. Muthusamy, S. delivered the lecture on "*Synthesis of macrocycles having ether, ester and amide functionalities via ring-closing metathesis methods*" in National Seminar on "Modern Trends in Chemistry" organized by Department of Chemistry, Bharathidasan Institute of Technology, Anna University, **Tiruchirappalli** – 620 024 during 17-18 December 2013. The event was inaugurated and delivered keynote lecture on 17 December 2013
72. Selvaraj, K. and Muthusamy, S.; "*Diastereoselective synthesis of spiro- and dispirodithiane / dithiepane oxindoles via Stevens rearrangement*" Oral Presentation delivered by Mr. Selvaraj, K. in J-NOST meeting held at Department of Chemistry, IISER, **Bhopal**, December 4-6, 2013
73. Muthusamy, S. delivered the lecture on "*Synthesis of macrocycles via rhodium(II) carbenoids*" in International Conference on Emerging Trends in Chemical Sciences (IETC-2013) organized by Chemistry Division, School of Advanced Sciences (SAS), VIT University, **Vellore** during 5-7th December, 2013 on 7th Dec. 2013
74. Muthusamy, S. delivered the lecture on "*NMR spectroscopy: Fundamentals and Applications*" and "*Synthesis of macrocycles via rhodium(ii) carbenoids*" in TEQIP II sponsored Faculty Development Programme on "Recent Advances and Developments in Chemistry (RADIC 2013)" organized by Department of Chemistry, Bharathidasan Institute of Technology, Anna University, **Tiruchirappalli** – 620 024 during 28th November to 04th December 2013. Two lectures delivered on 1st December 2013
75. Muthusamy, S. delivered the lecture on "*Synthesis of macrocycles via rhodium(II) carbenoids*" in National Symposium on "Frontiers in Organic Chemistry" organized by School of Chemistry, University of Hyderabad (On the Occasion of Prof. M. Periasamy's 60th Birthday Celebrations), **Hyderabad** during October 11-12, 2013
76. Muthusamy, S. delivered the lecture on "*Synthesis of N,O,S-heterocycles and macrocycles via metallo-carbenoid, multicomponent or metathesis Method*" in One day National Symposium on "Diversity Oriented Heterocyclic Synthesis" organized by Syngenta Biosciences Pvt. Ltd, **Goa** 403 110 on 27th August 2013
77. Sivaguru, M. and Muthusamy, S.; "*Synthesis of conformationally restricted symmetric macrodiolides via carbonyl ylides*" Poster presentation in One day National Seminar on "Current Trends in Organic Synthesis" organized by School of Chemistry, Madurai Kamaraj University, **Madurai** in honour of Dr. S. Perumal on 19th June 2013
78. Karikalan, T. and Muthusamy, S.; "*Synthesis of macrocycles: Rhodium(II) acetate catalyzed intramolecular O-H and N-H insertion reactions*" Poster presentation in One day National Seminar on "Current Trends in Organic Synthesis" organized by School of Chemistry, Madurai Kamaraj University, **Madurai** in honour of Dr. S. Perumal on 19th June 2013
79. Muthusamy, S. delivered the lecture on "*Stereoselective approach to steroid and homosteroid skeletons via carbonyl ylides*" in One day National Seminar on "Current Trends in Organic Synthesis" organized by School of Chemistry, Madurai Kamaraj University, **Madurai** in honour of Dr. S. Perumal on 19th June 2013

80. Muthusamy, S. delivered the lecture on "*Synthesis of macrocycles using Grubbs' and Rhodium acetate catalysts*" in One day National Seminar on "Recent Trends in Organic Synthesis" organized by CLRI, **Chennai** in honour of Dr. P. T. Perumal, Chief Scientist on 1st April 2013
81. Muthusamy, S. delivered the lecture on "*Synthesis of spiro compounds and macrocycles incorporation indole ring via rhodium carbenoids*" in National Symposium on Recent Advances in Chemistry (NSRAC-2013) organized by the Department of Chemistry, Pondicherry University, **Puducherry** during 22-23 March 2013 on 22nd March 2013
82. Muthusamy, S. delivered the lecture on "*Green chemistry for sustainability: Past, Present and Future*" in Ministry of Earth Sciences Sponsored National Seminar on Chemical Control Strategies and the Contribution of Green Chemistry for Sustainable Environment organized by the Faculty of Chemical Engineering, Kongu Engineering College (autonomous), Perundurai – 638 052 **Erode** on 16th March 2013
83. Muthusamy, S. delivered the lecture on "*Studies on rhodium carbenoids: Synthesis of spirocompounds and macrocycles incorporating indole units*" in National Conference on New Frontiers in Organic Chemistry and Process Research (NFOCPR-2013) organized by the Department of Chemistry, Stella Maris College and Shasun Pharmaceuticals Limited, **Chennai** during 24-25 January 2013 on 25th January 2013
84. Senthil Kumar, M. D. and Muthusamy, S.; "*Synthesis of macrocyclic thioesters via ring closing metathesis reaction*" in National Conference on New Frontiers in Organic Chemistry and Process Research (NFOCPR-2013) organized by the Department of Chemistry, Stella Maris College and Shasun Pharmaceuticals Limited, **Chennai** during 24-25 January 2013, Oral Presentation delivered by Mr. Senthil Kumar, M. D. on 25th January 2013
85. Azhagan, D. and Muthusamy, S.; "*Stereoselective synthesis of 3-spirooxindoles and their derivatives*" Oral Presentation delivered by Mr. Azhagan, D. in J-NOST meeting held at Department of Chemistry, IIT, **Guwahati**, December 15-17, 2012
86. Muthusamy, S. participated the XV-NOST-Organic Chemistry Conference (NOST-OCC) as a council member at Jaypee Palace Hotel, Muthusamy, S. has participated the XV-NOST-Organic Chemistry Conference (NOST-OCC) as a council member at Jaypee Palace Hotel, **Agra** during October 10-13, 2012 during October 10-13, 2012
87. Azhagan, D. and Muthusamy, S.; "*Synthesis of macrotetralides via ring closing metathesis*" Poster presentation in International Symposium on Chemistry and Chemical Biology of Natural Products (CCBNP-2012) held at IICT, **Hyderabad**, Aug. 2-4, 2012
88. Muthusamy, S. delivered the lecture on "*Green chemistry techniques – An overview*" UGC Refresher course for college teachers, Academic Staff College, Madurai Kamaraj University, **Madurai** on 14th July 2012
89. Muthusamy, S. delivered the lecture on "*Dipolar cycloaddition reactions- Advantages*" UGC Refresher course, Academic College, Madurai Kamaraj University, **Madurai** on 14th July 2012
90. Muthusamy, S. delivered the lecture on "*Green chemistry techniques: Present and future*" in Faculty development program on "Frontier areas in chemistry and NMR" organized by the School of Advanced Sciences, VIT University, **Vellore** during 22-26 June 2012 on 23rd June 2012
91. Muthusamy, S. delivered the lecture on "*Studies on rhodium carbenoids: Application of spiroindolones*" in National Conference on Frontiers in Chemical Sciences (NCFCS-2012) organized by the Department of Chemistry, Manipur University, Canchipur, **Imphal** during 20-21 March 2012 on 20th March 2012

92. Azhagan, D. and Muthusamy, S.; "*Ring opening reaction of furan with high region- and diastereoselectivity via controlled addition of isatin-derived diazoamides*" Poster presentation in CRSI Fourteenth National Symposium in Chemistry (NSC-14) held at NIIST, **Thiruvananthapuram**, Feb. 3-5, 2012
93. Sivaguru, M. and Muthusamy, S.; "*Rhodium catalysed synthesis of macrocyclic dilactones*" Poster Presentation in mid-CRSI south zonal meeting held at Department of Chemistry, Pondicherry University, **Puducherry**, December 16-17, 2011
94. Karikalan, T. and Muthusamy, S.; "*Diastereoselective synthesis of macrocycles incorporating the oxindoles and spiro-oxindoles*" Oral Presentation delivered by Mr. Karikalan, T. in J-NOST meeting held at Department of Chemistry, IISER, **Mohali**, December 15-18, 2011
95. Muthusamy, S. delivered the lecture on "*Studies on rhodium carbenoids: Application of spiroindolones*" in 3rd International Conference on Heterocyclic Chemistry (IHC-2011) organized by the Department of Chemistry, University of Rajasthan, **Jaipur** during 10-13 December 2011 on 10th December 2011
96. Muthusamy, S. delivered the lecture on "*Studies on rhodium carbenoids: Application of indole-3-carbenoids*" in International Conference on Synthetic and Structural Chemistry (ICSSC-2011) on the occasion of International Year of Chemistry-2011 organized by the Department of Studies in Chemistry, Mangalore University, Mangalagangothri, **Mangalore** during 8-10 December 2011 on 9th December 2011
97. Muthusamy, S. delivered the lecture on "*Reactions of dipoles*" UGC Refresher course for college teachers, Academic Staff College, Bharathidasan University, **Tiruchirappalli** on 1st December 2011
98. Muthusamy, S. delivered the lecture on "*Green chemistry: An alternate approach for organic synthesis*" in CRSI meet for UG and PG students of chemistry sponsored by Chemical Research Society of India on the occasion of International Year of Chemistry-2011 conducted by the Department of Chemistry, A.V.C. College (Autonomous), Mannampandal, **Mayiladuthurai**, Tamilnadu on 15th October 2011
99. Muthusamy, S. delivered the lecture on "*Studies on rhodium carbenoids: Synthetic applications of 3-diazoindol-2-ones*" in National Symposium on Recent Advances in Chemistry organized by the Chemspark Association of the Department of Chemistry, Dhanalakshmi Srinivasan College of Arts and Science for Women, **Perambalur**, Tamilnadu on 24th September 2011
100. Muthusamy, S. delivered the lecture on "*Green chemistry: Synthesis of valuable chemicals using ionic liquids and water*" in Humboldt Kolleg and International Conference on Recent Advancements in Earth Resources Research – The Road to the Future, 7-9 September 2011, conducted by the Department of Geology, Periyar University, **Salem** on 9th September 2011
101. Muthusamy, S.; Participated in Seminar on "*Recent developments in chemistry*," on the occasion of International Year of Chemistry-2011 organized by the School of Chemistry and Prof. Ramasubbu Jeyaraman Science Foundation at Bharathidasan University, **Tiruchirappalli** on 29th August, 2011
102. Muthusamy, S. delivered the lecture on "*NMR in Organic Synthesis*" in Chemspark Association of the Department of Chemistry, Dhanalakshmi Srinivasan College of Arts and Science for Women, **Perambalur**, Tamilnadu on 27th August 2011
103. Muthusamy, S.; Participated and conducted Green Chemistry Experiments of participants in National Workshop on Green Chemistry (NWGC-2011) sponsored by the DST, New Delhi

organized by the Department of Chemistry Manonmaniam Sundaranar University, **Tirunelveli** during 17-22 August, 2011

104. Muthusamy, S. delivered the lecture on "*Studies on 1,3-dipolar cycloaddition reactions using carbonyl ylides*" in Science Academies lecture-workshop on advances in chemistry 17-18th March 2011, sponsored by Indian Academy of Sciences (IASc), Indian National Science Academy (INSA), The National Academy of Sciences (NASI) at Research Department of Chemistry, PSN College of Engineering and Technology, **Tirunelveli**
105. Muthusamy, S. delivered the lecture on "*Studies on the synthesis of macrocyclic compounds*" in Science Academies lecture-workshop on advances in chemistry 17-18th March 2011, sponsored by Indian Academy of Sciences (IASc), Indian National Science Academy (INSA), The National Academy of Sciences (NASI) at Research Department of Chemistry, PSN College of Engineering and Technology, **Tirunelveli**
106. Azhagan, D.; Senthilkumar, M. D.; Muthusamy, S.; "*Aldol type carbon-carbon bond formation of ethereal sulfonium ylide*" Poster Presentation in National conference on Recent Trends in Organic Synthesis (RTOS-2011) held at School of Chemistry, Bharathidasan University, **Tiruchirappalli**, February 24-26, 2011
107. Muthusamy, S. delivered the lecture on "*Studies on rhodium carbenoids: Synthetic applications of 3-diazoindol-2-ones*" in Chennai Chemistry Conference, 11-13th Feb. 2011, conducted by Indian Institute of Technology, Anna University, University of Madras, Central Leather Research Institute at IIT-Madras, **Chennai** on 11th Feb. 2011
108. Muthusamy, S. delivered the Endowment lecture: Prof. S. Sivasubramanian Endowment Lecture on "*Studies on rhodium carbenoids: Synthetic applications of 3-diazoindol-2-ones*" in the School of Chemistry, Madurai Kamaraj University, **Madurai** on 19th Jan. 2011
109. Muthusamy, S. delivered the Endowment lecture: Prof. S. Swaminathan Endowment Lecture Award entitled on "*Studies on rhodium carbenoids: Application to the synthesis of piperidine and macrocyclic compounds*" in the Department of Organic Chemistry, University of Madras, **Chennai** on 21st Jan. 2011
110. Muthusamy, S. delivered the lecture on "*Research opportunities: A view*" in the one day seminar on "Research Day" held at Department of Chemistry, St. Joseph's College, **Tiruchirappalli** on 18th Jan. 2011
111. Muthusamy, S. delivered the lecture on "*Synthesis of oxygen heterocycles and macrocycles using rhodium acetate as a catalyst*" in the one day seminar on "Modern Trends in Catalysis" held at Department of Chemistry, National College, **Tiruchirappalli** on 29th Oct. 2010
112. Karikalan, T. and Muthusamy, S.; Poster Presentation on "*Synthesis of macrocycles via 14 to 20 membered-ring carbonyl ylides*" in CRSI Mid-Year meeting held at NIIST, **Trivandrum**, July 23-24, 2010
113. Sivaguru, M., Muthusamy, S.; Poster presentation on "*Rhodium(II) catalysed synthesis of 12-membered macrocycles from diazocarbonyl compounds*" in CRSI Twelfth National Symposium in Chemistry (NSC-12) held at Indian Institute of Chemical Technology, **Hyderabad**, Feb. 5-7, 2010
114. Muthusamy, S. delivered the lecture on "*Rhodium carbenoids: Studies on the synthesis of oxygen heterocycles and macrocycles*" in the Department of Chemistry, Manonmaniam Sundaranar University, **Tirunelveli** on 13th Nov. 2009

115. Muthusamy, S. delivered the lecture on "*Rhodium carbenoids: Stereoselective application to organic synthesis*" in the Department of Chemistry, Fatima College, **Madurai** at one day annual seminar on "Recent Trends in Chemistry" on 18th Sept. 2009
116. Muthusamy, S. delivered the lecture on "*Rhodium carbenoids: Stereoselective synthesis of oxygen heterocycles*" in the Department of Chemistry, VIT University, **Vellore** on 10th Aug. 2009
117. Muthusamy, S. delivered the lecture on "*Studies on the transition metal catalyzed route to the synthesis of macrocyclic compounds and its supramolecular chemistry*" at the DST Group Monitoring Workshop organized by the Department of Chemistry, Bangalore University, **Bangalore** on 9th Aug. 2009
118. Ramkumar, R., Karikalan, T., Srinivasan, P., Muthusamy, S.; Poster presentation by Muthusamy, S. entitled on "*Rhodium carbenoids: Catalytic synthesis of spirodioxolanes and indolophanes*" in "The 19th Lakeland symposium" conducted by RSC, Organic Division: Heterocyclic and synthesis group during 7-11th May 2009 held at Grasmere, **United Kingdom**
119. Muthusamy, S. delivered the lecture on "*Rhodium carbenoids: Stereoselective synthesis of oxygen heterocycles*" in School of Chemistry, University of Nottingham, Nottingham, **United Kingdom** delivered on 27th April 2009
120. Muthusamy, S. delivered the lecture on "*Rhodium carbenoids: Synthesis of oxygen heterocycles*" in School of Chemistry, University of Manchester, Manchester, **United Kingdom** on 24th March 2009
121. Muthusamy, S.; Ramkumar, R.; *Regioselective multicomponent reactions involving rhodium carbenoids to synthesize spiro indolodioxolanes* Poster presentation in CRSI Eleventh National Symposium in Chemistry held at National Chemical Laboratory, **Pune**, Feb. 6-8, 2009
122. Muthusamy, S. delivered the Endowment lecture: Prof. S. Sivasubramanian Endowment Lecture on "*Rhodium carbenoid chemistry: Application to the synthesis of piperidine and macrocyclic compounds*" at the School of Chemistry, Madurai Kamaraj University, **Madurai** on Apr. 11, 2008
123. Muthusamy, S.; Gunanathan, C.; Rajasekar, T.; *Rhodium catalysed regiospecific multiple carbenoid insertion approach to indolophanes* Poster presentation in CRSI Tenth National Symposium in Chemistry held at Indian Institute of Science, **Bangalore**, Feb. 1-3, 2008
124. Muthusamy, S. delivered the lecture on "*Studies on rhodium carbenoids towards terpenoids*" and "*Studies on rhodium carbenoids towards alkaloids and macrocycles*" two lectures in the Department of Chemistry, Bharathiar University, **Coimbatore** on Dec. 13-14, 2007
125. Muthusamy, S. delivered the lecture on "*Environmentally benign chemical techniques: An advantage of solid acids and ionic liquids in organic synthesis*" in the Horizon conference on "Green Chemistry" conducted by the Department of Chemistry, National Institute of Technology, **Tiruchirappalli** on Oct. 5-6, 2007
126. Muthusamy, S. delivered the lecture on "*Studies on rhodium carbenoids towards macrocycles*" in the one-day conference in organic synthesis and felicitation to Prof. P. C. Srinivasan conducted by the Department of Organic Chemistry, University of Madras, **Chennai** on July 14, 2007
127. Muthusamy, S. delivered the lecture on "*Studies on rhodium carbenoids towards terpenoids, alkaloids and macrocycles*" conducted by 12th National Organic Symposium Trust (NOST), India at Majorda beach resort, **Goa** during July 7-10, 2007

128. Muthusamy, S. delivered the lecture on "*Studies on rhodium carbenoids towards terpenoids, alkaloids and macrocycles*" in the one-day conference entitled ChemInnovation 2007, University-Industry Interface in Chemistry 2007 conducted by Department of Chemistry, Pondicherry University, **Puducherry** on March 23, 2007
129. Muthusamy, S.; Gnanaprakasam, B.; Poster presentation on "*Desymmetrization of cyclic anhydrides using dihydroxy compounds: Selective synthesis of macrocyclic tetralactones*" in Ninth CRSI National Symposium in Chemistry held at University of Delhi, **Delhi**, Feb. 1-4, 2007
130. J. Krishnamurthi and S. Muthusamy; Poster presentation on "*Highly regio- and stereoselective [3+2]-cycloaddition of carbonyl ylides with imines: Synthesis of functionalized furanones and piperidines*" in Indo-US-CCNP Symposium held at ICT, **Hyderabad**, Nov. 13-14, 2006. Received the Best Poster Presentation Award
131. Muthusamy, S. delivered the lecture on "*Studies on rhodium carbenoids towards alkaloids*" in UGC refresher course conducted by the School of Chemistry, Madurai Kamaraj University, **Madurai** on 9th Nov. 2006
132. Muthusamy, S. delivered the lecture on "*Studies on rhodium carbenoids towards terpenoids*" in UGC refresher course conducted by the School of Chemistry, Madurai Kamaraj University, **Madurai** on 9th Nov. 2006
133. Muthusamy, S. delivered the lecture on "*Studies on rhodium carbenoids: An application towards terpenoids, steroids, alkaloids and macrocycles*" as a CRSI Bronze Medal Lecture on 4th Feb 2006 at IIT, **Mumbai** during the 8th CRSI National Symposium in Chemistry on 3-5 Feb 2006
134. Muthusamy, S. delivered the lecture on "*Reactions of carbenes, Reactions of carbonyl ylides towards terpenoids, Reactions of carbonyl ylides towards alkaloids*" three lectures delivered on 25th January 2006 on the occasion of Silver Jubilee celebration of Dept. of Chemistry, Saurashtra University, **Rajkot**, Gujarat
135. B. Gnanaprakasam, E. Suresh and S. Muthusamy; *Regioselective nucleophilic addition to carbonyl ylide intermediates: A novel diastereoselective synthesis of cycloalkyl fused furan-3-ones*. Poster presentation in International symposium on Organic chemistry-Today and Tomorrow held at Department of organic chemistry, IISc, **Bangalore** during Jan. 4-7, 2006
136. Muthusamy, S. delivered the lecture on "*Studies on rhodium carbenoids: A simple strategy towards alkaloids*" in the Indo-Russian Seminar on Organic Chemistry held at IISc, **Bangalore** during 7-8 November 2005
137. Muthusamy, S. delivered the lecture on "*Studies on carbonyl ylides towards the synthesis of terpenoid and alkaloid systems*" at the group monitoring workshop conducted by DST, New Delhi held at RRL, **Trivandrum** on 28th July 2005
138. J. Krishnamurthi, E. Suresh and S. Muthusamy; Poster presentation on "*Synthesis of octahydro-1,4-benzodioxocin-6(5H)-one frameworks: An example for tandem reaction*" in Eighth National Symposium in Chemistry held at IIT, **Mumbai**, Feb. 3-5, 2005
139. J. Krishnamurthi and S. Muthusamy; Poster presentation on "*Chemoselective synthesis of multiple epoxy-bridged tetrahydropyranone ring systems*" in Seventh National Symposium in Chemistry held at IACS, **Kolkata**, Feb. 4-6, 2005
140. P. Srinivasan and S. Muthusamy; Poster presentation on "*Chemoselective synthesis of 3-arylamino- or 3-heteroaryl piperidin-2-ones*" in Seventh National Symposium in Chemistry held at IACS, **Kolkata**, Feb. 4-6, 2005

141. B. Gnanaprakasam and S. Muthusamy; Poster presentation on "*Ionic liquids as a convenient recyclable medium for the generation of transient carbonyl ylides: Syntheses of oxa and dioxabridged polycycles*" in 9th National Conference on "Bioactive heterocycles and drug discovery paradigm" including one day International Symposium on "Recent trends in drug discovery" organized by Department of Chemistry, Saurashtra University, **Rajkot** and Indian Society of Chemists and Biologists, CDRI, Lucknow, Jan. 8-10, 2005
142. Muthusamy, S. delivered the lecture on "*Studies on rhodium carbenoids: A simple strategy towards alkaloids*" at the National Symposium on Chemistry at the inorganic and organic interphase held at Department of Chemistry, IIT, **Guwahati** during 6-7 December 2004
143. Muthusamy, S. delivered the lecture on "*Studies on rhodium carbenoids: A strategy for terpenoids and alkaloids*" at Organic Chemistry Department-II, Ruhr University, Bochum, **Germany** on 13th October 2004
144. Muthusamy, S. delivered the lecture on "*Studies on rhodium carbenoids: A simple strategy for the complex biologically interesting molecules*" at An Industry-Academia meet to discuss innovative technologies in conducted by Humboldt Club, Bombay, Indo-German Chamber of Commerce and DAAD, New Delhi at Hotel Miramar, Devka Beach, **Daman** during 20-22 Feb. 2004
145. S. Muthusamy and C. Gunanathan; Poster presentation on "*Convenient synthesis of spirocyclopropane systems from cyclic rhodium carbenoids*" in Sixth National Symposium in Chemistry, IIT, **Kanpur**, Feb. 2-5, 2004
146. S. Muthusamy and J. Krishnamurthi; Poster presentation on "*Regio- and chemoselective synthesis of oxa-bridged spirocarbocyclic frameworks*" in Sixth National Symposium in Chemistry, IIT, **Kanpur**, Feb. 2-5, 2004
147. Muthusamy, S. delivered the lecture on "*Studies on rhodium carbenoids: A simple strategy towards terpenoids as well as alkaloids*" at the fourth one-day national symposium held at Department of Chemistry, IIT, **Kharagpur** on 17th January 2004
148. Muthusamy, S. delivered the lecture on "*Stereoselective studies on transient carbonyl ylides: An approach to terpenoids*" at the 10th NOST Symposium at Majorda Beach Resort, **Goa** conducted by National Organic Symposium Trust during 29th Oct. to 2nd Nov. 2003
149. Muthusamy, S. delivered the lecture on "*Development of the tandem processes utilizing α -diazo carbonyl compounds*" at the Department of Chemistry, Indian Institute of Technology, **Kanpur** on 29th August 2003
150. Muthusamy, S. delivered the lecture on "*Studies on tandem cyclization-cycloaddition reactions of α -diazo ketones: Novel synthesis of oxa-bridged polycyclic systems*" at the School of Chemistry, University of Madras organized by Spectrum, School of chemistry, University of Madras, **Chennai** on 6th Feb. 2003
151. S. Muthusamy and S. A. Babu; Poster presentation on "*Stereoselective studies on the construction of novel epoxy-bridged tetrahydropyranone frameworks*" in Fifth National Symposium in Chemistry, CLRI, **Chennai**, Feb. 7-9, 2003
152. S. Muthusamy and S. A. Babu; Poster presentation on "*Intermolecular C-H insertion reactions of cyclic rhodium carbenoids: Novel synthesis of 3-indol-3'-yloxindoles and 2-pyrrol-3'-yloxindoles*" in Fifth National Symposium in Chemistry, CLRI, **Chennai**, Feb. 7-9, 2003
153. S. Muthusamy, S. A. Babu and C. Gunanathan; Poster presentation on "*Synthesis of novel epoxy-bridged tetrahydropyranone frameworks*" in the first international Symposium in Recent

advances in pharmaceutical sciences, Zydus Cadila, **Ahmedabad**, Jan. 23-24, 2003. Received the Best Poster Presentation Award

154. Muthusamy, S. delivered the lecture on "*Studies on the tandem cyclization-cycloaddition reactions of rhodium generated carbenoids*" at the National Level Conference on Frontiers in Chemical Research, Recent Advances in Chemical Sciences (RACS-2002), 18-21 December, 2002, School of Chemical Sciences, Mahatma Gandhi University, **Kottayam**, Kerala
155. Babu, S. A.; Gunanathan, C.; Muthusamy, S.; Poster presentation on "*Synthesis of novel oxatetracyclo [6.5.1.0^{1,6}.0^{9,13}]tetradecene ring systems via carbonyl ylides*" in Fourth National Symposium in Chemistry, NCL, **Pune**, Feb. 1-3, 2002
156. Gunanathan, C.; Babu, S. A.; Muthusamy, S.; Poster presentation on "*Studies on reactions of cyclic diazoamines, diazoamides and diazoimides in the presence of Rh₂(OAc)₄ catalyst*" in Fourth National Symposium in Chemistry, NCL, **Pune**, Feb. 1-3, 2002
157. Muthusamy, S. delivered the lecture on "*Application of rhodium(II) acetate in modern organic synthesis*" at the School of Chemistry, University of Exeter, Exeter, **United Kingdom**, 9th November 2001
158. Babu, S. A.; Gunanathan, C.; Muthusamy, S.; Poster presentation on "*A simple and efficient regioselective synthesis of bicyclo[n.m.0]alkanediones*" in Third National Symposium in Chemistry, Panjab University, **Chandigarh**, Feb. 2-4, 2001
159. Muthusamy, S. delivered the lecture on "*Synthesis of oxa-bridged polycyclic systems*" at the UGC Refresher course, Bhavnagar University, **Bhavnagar**, Gujarat on 20th November 2000
160. Muthusamy, S. delivered the lecture on "*Photodynamic therapy*" at the UGC Refresher course, Bhavnagar University, **Bhavnagar**, Gujarat on 20th November 2000
161. Muthusamy, S.; Participated in "*Milestones in synthetic and mechanistic organic chemistry-An international symposium,*" IIT, **Chennai**, Sept. 2-3, 2000
162. Babu, S. A.; Muthusamy, S.; *Rhodium(II) mediated synthesis of oxatricyclic systems*. Poster presentation in Golden Jubilee National Seminar - "Recent Trends in Organic Synthesis", University of Madras, **Chennai**, Feb. 24-26, 2000. Received the Best Poster Presentation Award
163. Babu, S. A.; Muthusamy, S.; Poster presentation on "*Synthesis of functionalized oxatricyclic systems*" in Second National Symposium in Chemistry, IICT, **Hyderabad**, Jan. 27-29, 2000
164. Muthusamy, S.; Poster presentation on "*Synthesis of carbocycles: Tandem cyclization-cycloaddition reaction of rhodium carbenoids*" in National Symposium in Chemistry, IISc, **Bangalore**, Jan. 27-30, 1999
165. Muthusamy, S.; Attended in National Seminar on "*Trends in industrial catalysis*" organized by Catalysis Society of India and Indian Institute of Chemical Engineers at M. S. University, **Baroda** on Sept. 10-11, 1999
166. Muthusamy, S.; Oral presentation entitled "*Studies on transition metal catalysed reactions of diazo ketones*" in "Progress Report for DST Young Scientists Group Monitoring Workshop" organized by DST, New Delhi at Madhya Pradesh Bhoj (open) University, **Bhopal** on Aug. 24-25, 1999
167. Muthusamy, S.; Participated in Workshop on "*CAS Technical Days*" organized by CAS, USA, NCL, Pune and Sci-Edge Information, Mumbai at NCL, **Pune** on Feb. 4-6, 1998

168. Muthusamy, S.; Participated in “*Colloquium of the AvH Foundation for Humboldt Fellows and - Awardees in India and Nepal - Workshop Chemistry*” organized by AvH Stiftung and DAAD, New Delhi at Clarks Amer Hotel, **Jaipur** on Nov. 13-15, 1998
169. Muthusamy, S.; Participated in “*Indo-German symposium on organic synthesis-growing interface with adjacent sciences*” organized by CSIR and DAAD New Delhi at IICT, **Hyderabad**, Sept. 27-28, 1996
170. Muthusamy, S.; Sander, W.; *Synthesis of stable dimesityldioxirane*. Presented at 10th International Conference on Organic Synthesis (ICOS-10) held at IISc, **Bangalore**, India, Dec. 11-16, 1994
