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**RESEARCH AND PROFESSIONAL EXPERIENCE**

**Visiting Faculty** [25th June 2014-18th August 2014]Department of Chemistry, Purdue University**,** West Lafayette, Indiana, United States of America.

* **Assistant Professor** [April 2011-till date], Department of Chemistry, College of Science, King Saud University, Riyadh, Saudi Arabia
* **Post-Doctoral Research Fellow** [December 2009-December 2010], School of Pharmaceutical Sciences, Universiti Sains Malaysia, Penang-11800, Malaysia.
* **Research Scientist** [May 2008-July 2009], Process chemistry (R&D), Advinus Therapeutics Private Limited, Bangalore, India- Responsible for Process development of Pharma intermediate and synthesis of API (Active Pharmaceutical ingredient).
* **Ph. D. in Synthetic Organic Chemistry** [September2003–July2008],Department of Organic Chemistry, University of Madras, Chennai- 600 025, India.
* **Chemist in Research and Development (Management Trainee)** [2002-2003], Shasun Chemicals and Drugs Private Limited, Chennai, India-synthesis of API (Active Pharmaceutical Ingredient).
* **M.Phil. in Organic Chemistry** [2001-2002], Department of Organic Chemistry, School of Chemical Science, University of Madras, Chennai-600 025, India.
* **M. Sc. in Physical Chemistry** [1999 - 2001], School of Chemical Science, University of Madras, Chennai-600 025, India.
* **B. Sc. in Chemistry** [1994-1997], Govt. Arts College, Dharmapuri, University of Madras. India.

**VISITING FACULTY**

* Visiting Faculty at Drug Discovery Research facility, Department of Chemistry, Purdue University, West Lafayette, Indiana, United States of America invited by Prof. Philip S. Low Ralph C. Corley Distinguished Professor of Chemistry and Director of the Purdue Center for Drug Discovery.

**INVITED LECTURE**

* Title of Lecture: “*Facile [3+2]-cycloaddition-annulations in the construction of novel heptacyclic cage systems with the generation of three new rings and seven contiguous stereocentres***"** invited lecture on 3-6 March 2013 at the 14th Annual Florida synthetic and heterocyclic conference,University of Florida, Gainesville, Florida, United States of America.
* Title of talk: “*Straightforward synthesis of novel pyrrolo[3,4-b]quinolones via intramolecular Povarov reaction*” invited lecture on 1-4 March 2015 at the 16th Annual Florida synthetic and heterocyclic conference,University of Florida, Gainesville, Florida, United States of America.

**MAJOR FUNDED PROJECTS**

Currently, I am running two major projects as Co-investigator funded by National Plan for Science and Technology (NPST is leading funding agency in Saudi Arabia), Riyadh, Sa

udi Arabia

* **2012-till date:** Project entitled **“***Design, synthesis and anticancer activities of novel luotonin-inspired hybrid heterocycles*” Prof. Jose Carlos Menendez, Universidad Complutense, Madrid, Spain, is an international consultant for this project (1 million Saudi Riyals)
* **2013-till date**: Project entitled “*Synthesis, efficacy and evaluation of novel rigid coumarin/quinoline hybrids for solid state dye lasers*” Prof. Angel Costela, Instituto de Química Física “Rocasolano, Madrid. Spain, is an international Consultant for this project (2 million Saudi Riyals)

**AWARDS AND HONORS**

* Qualified for *G*raduate *A*ptitude *T*est in *E*ngineering (GATE -A National level entrance exam for admission to Ph.D programs in IIT’s and IISc, India) conducted by Ministry of Human Resource, Government of India.
* Awarded Junior Research Fellowship (Spetember 2003-August 2006) by Council of Scientific and Industrial Research (CSIR), New Delhi, India.
* Awarded Senior Research Fellowship (September 2006-April 2008) by Council of Scientific and Industrial Research (CSIR), New Delhi, India.
* Best poster presentation in National Symposium awarded by Chemical Research Society of India (CRSI) at kolkata-India on 2005.

EXPERT REVIWER FOR HIGHLY REPUTED INTERNATIONAL JOURNALS

Expert reviewer for the following highly reputed international journals

* (1) European Journal of Medicinal Chemistry (Elsevier publisher); (2) Bioorganic Medicinal Chemistry (Elsevier Publisher); (3) Letters in drug design and discovery (Bentham Scienc publisher); (4) Bioorganic Chemistry (Elsevier Publisher); (5) Journal of Materials and Environmental Science.

PATENTS

* Abdulrahman I. Almansour, Natarajan Arumugam, Raju Suresh Kumar , Periasamy Vaiyapuri Subbarayan, Ali Abdullah Alshatwi, Hazem A. Ghabbour entiled Anticancer compound, 2016 US patent (Patent No. US9,486,444B1) Date of Patent : 8 Nov 2016
* Abdulrahman I. Almansour, Natarajan Arumugam, Raju Suresh Kumar , Periasamy Vaiyapuri Subbarayan, Ali Abdullah Alshatwi, Jegan Athinarayanan entitled Synthesis of novel dispirooxindolopyrroldine tethered piperidinone heterocyclic hybrids as potent anti-cancer drug candidates. 2016 US patent has been filed.

REVIEW ARTICLE

* Natarajan Arumugam, Raju Suresh Kumar, Abdulrahman I. Almansour, Subbu Perumal. *Current Organic Chemistry* 2013, *17*, 1929-1956 (*impact factor* 3.04)
* Balaram S. Takale, Ming Bao, Yoshinori Yamamoto, Abdulrahman I. Almansour, **Natarajan Arumugam**, Raju Suresh Kumar, *Synlett* **2015,** *26***,** 2355-2380 *(Impact factor*: 2.41).
* Yoshinori Yamamoto, Abdulrahman I. Almansour,**Natarajan Arumugam**, Raju Suresh Kumar, *Arkivoc* **2016**, (ii), 9-41. (*impact factor 1.6*)

SELECTED PUBLICATIONS (TOTAL NUMBERS OF PUBLICATIONS 90)

1. Govindasami [Periyasami,](https://www.scopus.com/authid/detail.uri?authorId=15059331100&amp;eid=2-s2.0-85007370220) Natarajan Arumugam, Ali Aldalbahi, *Tetrahedron* **2017**, *73*, 322-330.
2. [Song, J.](https://www.scopus.com/authid/detail.uri?authorId=55874251000&amp;eid=2-s2.0-85007089930)[Feng, X.](https://www.scopus.com/authid/detail.uri?authorId=22134227100&amp;eid=2-s2.0-85007089930),[Yamamoto, Y](https://www.scopus.com/authid/detail.uri?authorId=55479983800&amp;eid=2-s2.0-85007089930), [Almansour, A.I.](https://www.scopus.com/authid/detail.uri?authorId=6603003502&amp;eid=2-s2.0-85007089930), [Arumugam, N.](https://www.scopus.com/authid/detail.uri?authorId=8351597600&amp;eid=2-s2.0-85007089930), [Suresh Kumar, R.](https://www.scopus.com/authid/detail.uri?authorId=55376698000&amp;eid=2-s2.0-85007089930),[Bao, M.](https://www.scopus.com/authid/detail.uri?authorId=7103131818&amp;eid=2-s2.0-85007089930" \o "Show Author Details) *Asian Journal of Organic Chemistry* **2017**, 6, 177-183.
3. Xuan Zhang, Xiaoqiang Yu, Xiujuan Feng, Yoshinori Yamamoto, Abdulrahman I. Almansour, **Natarajan Arumugam**, Raju Suresh Kumar and Ming Bao *Chemistry–An Asian Journal* **2016**, *11*, 3241-3250
4. [Mohamed Ashraf Ali](http://benthamscience.com/journal/render-search-results.php?cx=partner-pub-2685163628273835%3A7983360493&cof=FORID%3A10&ie=UTF-8&q=Mohamed+Ashraf+Ali), [Hasnah Osman](http://benthamscience.com/journal/render-search-results.php?cx=partner-pub-2685163628273835%3A7983360493&cof=FORID%3A10&ie=UTF-8&q=Hasnah%20Osman), [Raju Suresh Kumar](http://benthamscience.com/journal/render-search-results.php?cx=partner-pub-2685163628273835%3A7983360493&cof=FORID%3A10&ie=UTF-8&q=Raju+Suresh+Kumar), [Abdulrahman I. Almansour](http://benthamscience.com/journal/render-search-results.php?cx=partner-pub-2685163628273835%3A7983360493&cof=FORID%3A10&ie=UTF-8&q=Abdulrahman%20I.+Almansour), [**Natarajan Arumugam**](http://benthamscience.com/journal/render-search-results.php?cx=partner-pub-2685163628273835%3A7983360493&cof=FORID%3A10&ie=UTF-8&q=Natarajan%20Arumugam), [Vijay H. Masand](http://benthamscience.com/journal/render-search-results.php?cx=partner-pub-2685163628273835%3A7983360493&cof=FORID%3A10&ie=UTF-8&q=Vijay%20H.+Masand) and [Theivendren Panneerselvam](http://benthamscience.com/journal/render-search-results.php?cx=partner-pub-2685163628273835%3A7983360493&cof=FORID%3A10&ie=UTF-8&q=%20Theivendren%20Panneerselvam) *Letters in Drug Design & Discovery* **2016**, 13m, 691-696
5. **Mohd Zaheen Hassan, Mohamed Ashraf Ali, Hasnah Osman, Raju Suresh Kumar and Natarajan Arumugam** *Medicinal Chemistry* **2016,** *6***,** 486-491
6. Srinivasarao Yaragorla, Abhishek Pareek, Ravikrishna Dada, Abdulrahman I. Almansour, Natarajan Arumugam, *Tetrahedron Letters* **2016**, *57*, 5841-5845.
7. Xuan Zhang, Xiaoqiang Yu, Dingwei Ji, Yoshinori Yamamoto, Abdulrahman I. Almansour, **Natarajan Arumugam**, Raju Suresh Kumar, and Ming Bao, *Organic Letters* **2016** (Article in press Doi: 10.1021/acs.orglett.6b01991
8. Jiliang Song, Xiujuan Feng, Yoshinori Yamamoto, Abdulrahman I. Almansour, Natarajan Arumugam, Raju Suresh Kumar, Ming Bao *Tetrahedron Letters* **2016**, *57*, 3163-3166.
9. Seeni Maharani, Abdulrahman I. Almansour, Raju Suresh Kumar, Natarajan Arumugam, Raju Ranjith Kumar *Tetrahedron* **2016**, 72, 4582-4592.
10. Abdulrahman I. Almansour, **Natarajan Arumugam**, Raju Suresh Kumar, Saied M.Soliman, Mohammd Altaf, Hazem A. Ghabbour, *Molecules*, **2016,** *21***,** 724 *(Impact factor*: 2.416).
11. Raju Suresh Kumar, Abdulrahman I. Almansour, **Natarajan Arumugam**, Raju Rajith Kumar, Saied A Soliman. *Journal of Molecular Structure* **2016,** *1121***,** 93-103.
12. Xiaoqiang Yu, Peihong Zhu, Ming Bao, Yoshinori Yamamoto, Abdulrahman I. Almansour, **Natarajan Arumugam**, Raju Suresh Kumar. *Asian Journal of Organic Chemistry* **2016**, *5*, 699-704. *(Impact factor*: 3.318)
13. Remani Vasudevan Sumesh, Muthumani Muthu, Abdulrahman I. Almansour, Raju Suresh Kumar, **Natarajan Arumugam**, S. Athimoolam, E. Arockia Jeya Yasmi Prabha, and Raju Ranjith Kumar. *ACS combinatorial Science* **2016,** *18***,** 262-270**.** *(Impact factor*: 3.032)
14. Srinivasarao Yaragorla, Pyare L. Saini, P. Vijaya Babu, Abdulrahman I. Almansour, Natarajan Arumugam. *Tetrahedron Letters* **2016,** *57*, 2351-2355**.** *(Impact factor*: 2.379)
15. Srinivasarao Yaragorla, Pyare Lal Saini, Abhishek Pareek, Abdulrahman I. Almansour, Natarajan Arumugam. *Tetrahedron Letters* **2016**, *57*, 2034-2038. *(Impact factor*: 2.379)
16. Aziz Ullah, Sheng Zhang, Ming Bao, Yoshinori Yamamoto, Abdulrahman I. Almansour, **Natarajan Arumugam**, Raju Suresh Kumar, *Tetrahedron* ***2016,*** *72****,*** 170-175. *(Impact factor*: 2.379)
17. Raju  Suresh Kumar, Abdulrahman Al Mansour, **Natarajan Arumugam**,  
    Mohammad Altaf, J. Carlos  Menéndez, Raju Ranjithkumar, Hasnah Osman, *Molecules*, **2016**, *21*,165. *(Impact factor*: 2.416)
18. Jian Suna, Ming Baoa, Xiujuan Fenga, Xiaoqiang Yua, Yoshinori Yamamoto, Abdulrahman I. Almansour, **Natarajan Arumugam**, Raju Suresh Kumar, *Tetrahedron Letters*, **2015**, *56*, 6747-6750. *(Impact factor*: 2.379)
19. Abdulrahaman I. Almansour, **Natarajan Arumugam**, Raju Suresh Kumar, Jose Carlos Menendez, Hazem A. Ghabbour, Hoong-Kun Fun, *Tetrahedron Letters*, **2015**, *56*, 6900-6903. *(Impact factor*: 2.379)
20. Yoshinori Yamamoto, Abdulrahman I. Almansour,**Natarajan Arumugam**, Raju Suresh Kumar, *Arkivoc* **2016**, (ii), 9-41. (*impact factor 1.6*)
21. **Natarajan Arumugam**, Abdulrahman I. Almansour, Raju Suresh Kumar,J. Carlos Menéndez, Mujeeb A. Sultan, Usama Karama, Hazem A. Ghabbour   
    and Hoong-Kun Fun. *Molecules* **2015,** *20*, 16142-16153*(Impact factor*: 2.416).
22. Karuppiah Malathi, Selvaraj Kanchithalaivan, Raju Ranjith Kumar, Abdulrahman I. Almansour, Raju Suresh Kumar, **Natarajan Arumugam** *Tetrahedron Lett*ers, **2015**, *56*, 6132-6135 (*Impact factor* 2.379)
23. Raju Suresh Kumar, Abdulrahman I. Almansour, **Natarajan Arumugam**, J. Carlos Menéndez, Hasnah Osman, Raju Ranjith Kumar, *Synthesis* **2015**, *47*, 2721-2730 *(Impact factor*: 2.68).
24. Abdulrahman I. Almansour, **Natarajan Arumugam**, Raju Suresh Kumar, Govindasami Periyasami, Hazem A. Ghabbour and Hoong-Kun Fun *Molecules* **2015**, *20*, 780-791. *(Impact factor*: 2.416).
25. Abdulrahman I. Almansour, Raju Suresh Kumar, **Natarajan Arumugam**, Alireza Basiri, Yalda Kia and Mohamed Ashraf Ali. *BioMed Research International* **2015,** article ID 965987, 9 pages *(Impact factor*: 2.70).
26. Abdulrahman I. Almansour, Raju Suresh Kumar, **Natarajan Arumugam**, Alireza Basiri,Yalda Kia, Mohamed Ashraf Ali, Mehvish Farooq and Vikneswaran Murugaiyah *molecules*, **2015**, *20*, 2296-2309. *(Impact factor*: 2.416).
27. Raju Suresh Kumar, Abdulrahman I. Almansour, **Natarajan Arumugam**,Alireza Basiri, Yalda kia and Raju Ranjith Kumar. *Australian Journal of Chemistry* **2015**, *68*, 863-871 (*Impact factor*: 1.55).
28. **Natarajan Arumugam**, Abdulrahman I. Almansour, Raju Suresh Kumar, Raju Rajesh, Govindasami Periyasami and Raghavachary Raghunathan “*Medicinal Chemistry* **2014**, *10*, 730-737. *(Impact factor*: 1.37).
29. Abdulrahman I. Almansour, **Natarajan Arumugam**, Raju Suresh Kumar, R. Padmanaban, V.B. Rajamanikandan, Hazem A. Ghabbour, Hoong-Kun Fun. *Journal of Molecular Structure* **2014,** *1068*, 283-288 *(Impact factor*: 1.40).
30. Raju Suresh Kumar, Abdulrahman I. Almansour, **Natarajan Arumugam**, Hasnah Osman, Mohamed Ashraf Ali, Alireza, Yalda Kia, Ashraf Ali *Medicinal Chemistry* **2014,** *10*, 228-236 (*impact factor*: 1.37).
31. Abdulrahman Ibrahim Almansour, Raju Suresh Kumar, **Natarajan Arumugam**, Ramachandran Aruna, Nagalakshmi and Janakiraman Suresh. *Zeitschrift für Kristallographie - New Crystal Structures* ***2014****, 229,* 175-177.
32. **Natarajan Arumugam**,Abdulrahman I. Almansour, Raju Suresh Kumar,Subbu Perumal, Hazem A. Ghabbour, Hoong-kun Fun. *Tetrahedron Letters*, **2013,** *55*, 2515-2519. (*Impact factor*: 2.379)
33. Govindasami Periyasami, Raju Rajesh, **Natarajan Arumugam**, Raghavachary Raghunathan, Shanmugam Ganesan, Pichai Maruthamuthu. *Journal of Materials Chemistry A* **2013,** *1,* 14666-14674 (*Impact factor.* 7.443)
34. **Natarajan Arumugam**, Raju Suresh Kumar, Abdulrahman I. Almansour, Subbu Perumal. *Current Organic Chemistry* **2013,** *17*, 1929-1956 (*impact factor* 3.04)
35. Aisyah Saad Abdul Rahim, Salizawati Muhamad Salhimi, **Natarajan Arumugam**, Lim Chung Pin, Ng Shy Yee, Nithya Niranjini Muttiah, Wong Boon Keat, Shafida Abd. Hamid, Hasnah Osman and Ishak b. Mat. *Journal* *of Enzyme Inhibition and Medicinal Chemistry* **2013,** *28***,** 1255-1260 (*Impact factor*: 2.332)
36. Raju Suresh Kumar, Alagar Ramar, Subbu Perumal, Abdulrahman I. Almansour, **Natarajan Arumugam** and Mohamed Ashraf Ali. *Synthetic Communications* **2013,** *43*, 2763-2772 (*Impact factor*: 1.06)
37. **Natarajan Arumugam,** Raghavachary Raghunathan, Abdulrahman I. Almansour, Usama Karama. *Bioorganic & Medicinal Chemistry Letters***2012***, 22*,1375-1379. (*Impact factor*: 2.55)
38. **Natarajan Arumugam**, Aisyah Saad Abdul Rahim, Shafida Abd Hamid and Hasnah Osman *Molecules* **2012**, *17*, 9887-9899. (*Impact factor*: 2.38)
39. Abdulrahman I. Almansour, Raju Suresh Kumar, **Natarajan Arumugam**, Dharmarajan Sriram. *European Journal of Medicinal Chemistry* **2012**, *53*, 416-423. (*Impact factor*: 3.34)
40. Ang Chee Wei, Mohamed Ashraf Ali, Yeong Keng Yoon, Rusli Ismail, Tan Soo Choon, Raju Suresh Kumar, **Natarajan Arumugam**, Abdulrahman I. Almansour, Hasnah Osman. *Bioorganic & Medicinal Chemistry Letters* **2012**, *22*, 4930-4933. (*Impact factor*: 2.55)
41. Mohamed Ashraf Ali, Rusli Ismail, Tan Soo Choon, Raju Suresh Kumar, Hasnah Osman, **Natarajan Arumugam**, Abdulrahman I. Almansour, Karthikeyan Elumalai, Abhimanyu Singh. *Bioorganic & Medicinal Chemistry Letters***2012**,*22,* 508-511. (*Impact factor*: 2.55)
42. Abdulrahman I. Almansour, Mohamed Ashraf Ali, Sadath Ali , Ang Chee Wei, Yeong Keng

Yoon*,*Rusli Ismail, Tan Soo Choon, Suresh Pandian,Raju Suresh Kumar, **Natarajan Arumugam** and Hasnah Osman. *Letters in Drug Design & Discovery* **2012,** *9*, 953-957(*Impact factor*: 0.87)

1. **Natarajan Arumugam,** Govindasami Periyasami, Raghavachary Raghunathan, Subban Kamalraj, Johnpaul Muthumary. *European Journal of Medicinal Chemistry***2011***,**46*, 600-607. (*Impact factor*: 3.34)
2. **Natarajan Arumugam**,Raghunathan, R. *Synthetic Communications***2011***,**41*, 2747-2755. (*Impact factor*: 1.06)
3. **Natarajan Arumugam**, N. Ngah, S. Abd Hamid and A. S. Abdul Rahim. *Acta Crystallographica Section E*, **2011**, *E67*, o3453.
4. **Natarajan Arumugam**, Nurziana Ngah, Hasnah Osman and Aisyah Saad Abdul Rahim. *Acta Crystallographica Section E*, **2011**, *E67*, o3231.
5. **Natarajan Arumugam**, Nurziana Ngah, Shafida Abd Hamid and Aisyah Saad Abdul Rahim. *Acta Crystallographica Section E*, **2011**, *E67*, o2938.
6. **Natarajan Arumugam**, Abdulrahman I. Almansour, Usama Karama, Mohd Mustaqim Rosli and Ibrahim Abdul Razak. **2011**, *E67*, o2251.
7. J. Suresh, **Natarajan Arumugam**, Abdulrahman I. Almansour, Usama Karama and P. L. Nilantha Lakshman. *Acta Crystallographica Section E*, **2011**, *E67*, o2203.
8. **Natarajan Arumugam,** Raghunathan, R., Shanmugaiah, V., Mathivanan, N. “Synthesis of novel *β*-lactam fused spiroisoxazolidine chromanones and tetralones as potent antimicrobial agent for human and plant pathogens.” *Bioorganic & Medicinal Chemistry Letters***2010**,*20****,*** 3698-3702. (*Impact factor*: 2.55)
9. **Natarajan Arumugam,** Raghunathan, R. *Tetrahedron* **2010,** *66*, 969-975. (*Impact factor*: 3.02)
10. **Natarajan Arumugam**, Aisyah Saad Abdul Rahim, Habibah A Wahab, Jia Hao Goh and Hoong-Kun Fun. *Acta Crystallographica Section E*, **2010**, *E66*, o1590.
11. **Natarajan Arumugam**, Aisyah Saad Abdul Rahim, Hasnah Osman, Madhukar Hemamalini and Hoong-Kun Fun. *Acta Crystallographica Section E*, **2010**, *E66*, 1285.
12. **Natarajan Arumugam**, Aisyah Saad Abdul Rahim, Hasnah Osman, Chin Sing Yeap and Hoong-Kun Fun. *Acta Crystallographica Section E*, **2010**, *E66*, 1214.
13. **Natarajan Arumugam**, Aisyah Saad Abdul Rahim, Hasnah Osman, Mohd Mustaqim Rosli and Hoong-Kun Fun. *Acta Crystallographica Section E*, **2010**, *E66*, o1051.
14. **Natarajan Arumugam**, Aisyah Saad Abdul Rahim, Shafida Abd Hamid, Madhukar Hemamalini and Hoong-Kun Fun" *Acta Crystallographica Section E*, **2010**, *E66*, o796.
15. **Natarajan Arumugam**, Shafida Abd Hamid, Aisyah Saad Abdul Rahim, Madhukar Hemamalini and Hoong-Kun Fun. *Acta Crystallographica Section E*, **2010**, *E66*, 776.
16. **Natarajan Arumugam**, Aisyah Saad Abdul Rahim, Hasnah Osman, Madhukar Hemamalini and Hoong-Kun Fun. *Acta Crystallographica Section E*, **2010**, *E66*, o845.
17. **Natarajan Arumugam,** Abdul Rahim, A. S., Osman, H., Fun, H.-K. *Acta Cryst.* **2010,** *E66*, o2412-o2413.
18. **Natarajan Arumugam,** Abdul Rahim, A. S., Abd Hamid, S., Rosli, M. M., Fun, H.-K. *Acta Cryst.* **2010**, *E66*, o2141.
19. **Natarajan Arumugam,** Raghunathan, R. “Stereoselective synthesis of bis β-lactam grafted macrocycles.” *Tetrahedron Letters* **2006,** *47*, 8855-8857. *(Impact factor*: 2.379).
20. **Natarajan Arumugam,** Jayashankaran, J., Rathna Duraga R. S. M., and Raghunathan, R. *Tetrahedron* **2005**, *61*, 8512-8516. (*Impact factor*: 3.02).