**NEHRU MEMORIAL COLLEGE (AUTONOMOUS)**

**PUTHANAMPATTI-621007**

# STAFF PROFILE

**NAME OF THE STAFF** : **Dr. R. SURENDRA KUMAR**

**DESIGNATION** : **ASSISTANT PROFESSOR**

**DEPARTMENT** : **CHEMISTRY**

## 1. CONTACT

**Address** : Nehru Memorial College

**Contact Phone (Mobile)** : +91-9944549026

**Contact e-mail(s)** : surendrakumar@nmc.ac.in

## 2. ACADEMIC QUALIFICATIONS

| Degree | College/University/Board | Year of Passing/ Awarded |
|---|---|---|
| Ph. D | Bharathidasan University | 2011 |
| M. Sc | Jamal Mohamed College | 2005 |

## 3. TEACHING EXPERIENCE

| S. No. | Institution | Duration | No. of Years | |
|---|---|---|---|---|
| | | | UG | PG |
| 1 | Nehru Memorial College | 2015- Till date | 05 | 05 |

## 4. RESEARCH EXPERIENCE (in years) : 15

## 5. AREA OF RESEARCH

**Small Heterocyclic molecule synthesis, Medicinal Chemistry, Nanochemistry**

## 6**. RESEARCH GUIDANCE (In Numbers)

| Program of Study | | Completed | Ongoing |
|---|---|---|---|
| Research | Ph. D. | | 03 |
| | M. Phil. | 07 | |

## 7**. PUBLICATION(S) (In Numbers)

| Journal(s) | |
|---|---|
| International | National |
| 63 | 03- |

| | |
|---|---|
| Book (Elsevier) (Chapter-14 Theranotics and radiopharmaceuticals in cancer treatment) | 01(Elsevier) 2021-Handbook on Nan biomaterials for Therapeutics and Diagnostic Applications. Pages: 341-360. https://www.sciencedirect.com/science/article/pii/B9780128210130000209 |

| | |
|---|---|
| Cumulative Impact Factor (as per JCR) | |
| h-index | 15 |
| i10 index | 20 |
| Total Citations | 650 |

## 8**. PRESENTATION(S) (In Numbers)

| Events | International | National |
|---|---|---|
| Conference(s) | 03 | 06 |

## 9**. PARTICIPATION (In Numbers)

| Events | International | National |
|---|---|---|
| Workshop(s) | 1 | 1 |

## 10**. PROFESSIONAL DEVELOPMENT (In Numbers)

| Orientation Programme(s) | Faculty Development Programme(s) |
|---|---|
| 01 | 05 |

## 11. FUNDED RESEARCH PROJECT(S)

| List of ongoing Project(s) | | | | | |
|---|---|---|---|---|---|
| S. No. | Agency | Period | | Project Title | Grant Allocated (Rs. In Lakhs) |
| | | From | To | | |
| 1 | Hyprocell Bio tech company, Connecticut, USA. | 2017 | 2019 | Synthesis of API Mitoxantrone analogues anticancer agent | 3,00000 |

| | |
|---|---|
| **Patent(s) (Applied/Received) (01)** | **<u>Published in Indian patent</u>**<br><br>**Title : Larvicidal and Antifeedant Compounds and a Process Thereof**<br>**Application No: 201941043599**<br>**Published date: 25th October 2019** |
| **(02)** | **Title : Larvicidal compounds and process there of**<br><br>**Patent no : 359404**<br><br>**Awarded year : 2019** |

## 12. OVERSEAS EXPOSURE / VISIT(S) (Academic & Research)

1. **Paper title:** " Anticoaulant and cytotoxic activities of novel Imidazolidine2,4dione and 2thioxoimidazolidin4-one derivatives" May28-31, 2017. XVII International Conference on Heterocycles in Bioorganic Chemistry,

   **Venue**: National Univerity of Ireland Galway, **Ireland.**

2. **Paper Title**: "Analgesic activity of some new 1,4-dihydropyridine derivatives" - 2nd International Conference on Medicinal Chemistry & Computer Aided Drug Designing – OMICS group- (***October 15-17, 2013***)

   **Venue**: Hampton Inn Tropicana, Las Vegas, NV, **USA**.

3. Paper title: Anticancer activity of some 1,4-dihydropyridine derivatives – OMICS group- (Sep-10-12,2012)

   **Venue**: Hilton San Antonio, **USA**.

## 13. ACADEMIC / ADMINSTRATIVE RESPONSIBILITIES HELD

1. **MQASC MEMBER**
2. **Research and development member**

## 14. DETAILS OF MEMBERSHIP

| | |
|---|---|
| **Referee (Peer Reviewed Journal)** | 1. **Bentham science -Chemical Biology**<br>2. **Saudi journal chemical Society** |

## 15. DETAILS OF RESEARCH GUIDANCE

| **M. Phil. (Completed)** | | | |
|---|---|---|---|
| **S. No.** | **Name** | **Title of thesis** | **Year of award** |
| **01** | **M. SUBA** | **Green synthesis of B-amino carbonyl derivative and their catalyst free condition and its cyto toxic activity.** | **Sep-2019** |
| **02** | **A. AMSA** | **Synthesis of novel derivatives via Cu(II) catalyst and their anti-inflammatory & cytotoxic activities** | **Jan-2020** |

## 16. DETAILS OF PUBLICATIONS

### (a) JOURNAL(S)

64. Ponnusamy Packialakshmi, Perumal Gobinath, Daoud Ali, Saud Alarifi , Balasubramani Ravindran,Akbar Idhayadhulla , and **Radhakrishnan Surendrakumar***Novel Chitosan Polymer Design, Synthesis Using Mentha piperita of ZnO NPs as a Catalyst: Antibacterial Evaluation against Gram-Negative MultidrugResistant Pathogens. Journal of Nanomaterials Volume 2021, Article ID 8804837, 1-11, https://doi.org/10.1155/2021/8804837. (SCIE, IF: 2.98)

63. Mohammed Al-Zharani 1 , Mohammed S. Al-Eissa , Hassan A. Rudayni , Daoud Ali , Saud Alarifi , **Radhakrishnan Surendrakumar** and Akbar Idhayadhulla . Larvicidal Activity of Geranylacetone Derivatives against Culex quinquefasciatus Larvae and Investigation of Environmental Toxicity and Non-Target Aquatic Species. Agronomy, 2021, 11, 2342. https://doi.org/10.3390/.(SCIE, IF: 3.4)

62. SathishKumar Chidambaram,Daoud Ali, Saud Alarifi, Raman Gurusamy, **SurendraKumar Radhakrishnan** & Idhayadhulla Akbar.Tyrosinase-mediated synthesis of larvicidal active 1,5-diphenyl pent-4-en-1-one derivatives against *Culex quinquefasciatus* and investigation of their ichthyotoxicity. *Sci Rep* **11,** 20730 2021. https://doi.org/10.1038/s41598-021-98281-5. (SCIE, IF: 4.37)

61. Perumal Gobinath, Ponnusamy Packialakshmi , Kaliappillai Vijayakumar, Magda H. Abdellattif, Mohd Shahbaaz, Akbar Idhayadhulla and **Radhakrishnan Surendrakumar**[1]* Synthesis and Cytotoxic Activity of Novel Indole Derivatives and Their in silico Screening on Spike Glycoprotein of SARS-CoV-2Gobinath, Front. Mol. Biosci., 05 August **2021** https://doi.org/10.3389/fmolb.2021.716238 (SCIE, IF: 5.2)

60. Synthesis and characterization of a minophosphonate containing chitosan polymer derivatives: Investigations of cytotoxic activity and in silico study of sars-cov-19Packialakshmi, P., Gobinath, P., Daoud, A., Alarifi, S., Alsaiari, N.S., Idhayadhulla, A., **Surendrakumar***, R. Polymers **2021**, *13*(7), 1046; (SCIE, IF: 4.3)

59. Grindstone chemistry: Design, one-pot synthesis, and promising anticancer activity of spiro[acridine-9,2′-indoline]-1,3,8-trione derivatives against the mcf-7 cancer cell line , Gobinath, P., Packialakshmi, P., Daoud, A., Alarifi, S., Idhayadhulla, A., Surendrakumar*, R. Molecules, **2021** Feb 20;26(4):1131. (SCIE, IF: 4.4)

58. Green catalyst Cu(II)-enzyme-mediated eco-friendly synthesis of 2-pyrimidinamines as potential larvicides against Culex quinquefasciatus mosquito and toxicity investigation against non-target aquatic species, Chidambaram, S., Mostafa, A.A.-F., Abdulrahman Al-Askar, A., Sayed, S.R.M., Radhakrishnan, S., Akbar, Idhayadhulla*, Bioorganic Chemistry, Volume 109, **2021,** 104697 (IF:5.2)

57. Synthesis of novel coumarin analogues: Investigation of molecular docking interaction of SARS-CoV-2 proteins with natural and synthetic coumarin analogues and their pharmacokinetics studies, Chidambaram, S., El-Sheikh, M.A., Alfarhan, A.H., Radhakrishnan, S., Akbar, Idhayadhulla*. Saudi Journal of Biological Sciences, **2021,** 28(1), pp. 1100-1108 (IF: 4.2)

56. Larvicidal activity of novel anthraquinone analogues and their molecular docking studiesSelvaraj, K., Ali, D., Alarifi, S., Chidambaram, S.K., Radhakrishnan, S., Akbar, Idhayadhulla, Saudi Journal of Biological Sciences, **2021**,28(1), pp. 157-162 (IF:4.2)

55.Antimicrobial activity of novel 5-benzylidene-3-(3-phenylallylideneamino)imidazolidine-2,4-dione derivatives causing clinical pathogens: Synthesis and molecular docking studiesAli, D., Alarifi, S., Chidambaram, S.K., Radhakrishnan, S.K., Akbar, I. Journal of Infection and Public Health, **2020**,13(12), pp. 1951-1960 (IF: 3.7)

54. In silico molecular docking: Evaluation of coumarin based derivatives against SARS-CoV-2 Chidambaram, S.K., Ali, D., Alarifi, S., Radhakrishnan, S., Akbar, I. Journal of Infection and Public Health, **2020** 13(11), pp. 1671-1677. (IF: 3.7)

53. $Cu^{II}$-Tyrosinase Enzyme Catalyst-Mediated Synthesis of 2-Thioxopyrimidine Derivatives with Potential Mosquito Larvicidal Activity: Spectroscopic and Computational Investigation as well as Molecular Docking Interaction with OBPs of Culex quinquefasciatusSathishKumar, C., Keerthana, S., Ahamed, A., Arif, I.A., SurendraKumar, R., Idhayadhulla, A. ChemistrySelect, 2020, 5(15), pp. 4567-4574 (IF: 2.1).

52. Antioxidant Activity of Telmisartan-Cu(II) Nanoparticles Connected 2-Pyrimidinamine and Their Evaluation of Cytotoxicity Activities, Surendrakumar, R., **Idhayadhulla,** A., Alarifi, S., Ahamed, N.A., Sathish Kumar, C. BioMed Research International **2020**, https://doi.org/10.1155/2020/8872479 (IF:3.4)

51.Synthesis, cytotoxic analysis, and molecular docking studies of tetrazole derivatives via n-mannich base condensation as potential antimicrobials, Hatamleh, A.A., Farraj, D.A., Al-Saif, S.S., Chidambaram, S., Radhakrishnan, S., Akbar Idhayadhulla*, **2020,** Drug Design, Development and Therapy 14, pp. 4477-4492 (IF: 4.1)

50. Synthesis of novel benzopyran-connected pyrimidine and pyrazole derivatives via green method using Cu(II)-Tyrosinase Enzyme catalyst as potential larvicidal, antifeedant activities, Ashraf Abdel-Fattah Mostafa, Chidambaram SathishKumar, Abdulaziz Abdulrahman Al-Askar, Shaban R.M. Sayed, Radhakrishnan SurendraKumar, and Akbar Idhayadhulla **,** RSC Advances (**2019**) Accepted (IF: 3.02), (SCIE).

49.Cytotoxic, larvicidal, nematicidal and antifeedant activities of piperidin-connected 2-thioxoimidazolidin-4-one derivative, Ibrahim A. Arif, Anis Ahamed, Radhakrishnan SurendraKumar, Akbar Idhayadhulla, Aseer Manilal ,Saudi Journal of Biological Sciences26 (**2019**) 673–680. (IF: 2.82), PubMed.

48.Effective synthesis of some novel pyrazolidine-3,5-dione derivatives via Mg(II) catalyzed in water medium and their anticancer and antimicrobial activities,Meera Moydeen, Radhakrishnan Surendra Kumar, Akbar Idhayadhulla , Aseer Manilal, Molecular Diversity, 23 (**2019**)35–53(IF: 2.02), (SCIE), PubMed.

47.Evaluation of antioxidant and anticancer activities of chemical constituents of the Saururus chinensis root extracts, Abdullah Alaklabi, Ibrahim A. Arif, Anis Ahamed Radhakrishnan Surendra Kumar, Akbar Idhayadhulla, Saudi Journal of Biological Sciences, (2018) 25, 1387–1392, (IF: 2.82) ,(SCIE) PubMed.

46.Synthesis of novel pyridine-connected piperidine and 2*H*-thiopyran derivatives and their larvicidal, nematicidal, and antimicrobial activities, Anis Ahamed1, Ibrahim Arif1, Radhakrishnan Surendra Kumar, Akbar Idhayadhulla, Selva raj Keerthana and Aseer Manilal, Journal of the Mexican Chemical Society, 62(2018)135-147, (IF: 0.434) (SCIE).

45.Antimicrobial, anticoagulant, and cytotoxic evaluation of multidrug resistance of new 1,4-dihydropyridine derivatives, Anis Ahamed, Ibrahim A. Arif, Mohammed Mateen, Radhakrishnan Surendra Kumar, Akbar Idhayadhulla, Saudi Journal of Biological Sciences, 25 (2018) 1227– 1235, (IF: 2.82), (SCIE) PubMed.

44. Synthesis of novel pyridine-connected piperidine and 2H-thiopyran derivatives and their larvicidal, nematicidal, and antimicrobial activitiesAhamed, A., Arif, I.A., Kumar, R.S., Idhayadhulla, A., Keerthana, S.R., Manilal, A.2018 Journal of the Mexican Chemical Society 62(4), pp. 135-147

43. Synthesis of novel three compound imidazole derivatives via Cu(II) catalysis and their larvicidal and antimicrobial activities. Abdullah Alaklab Radhakrishnan Surendra Kumar, Anis Ahamed,Ibrahim A. Arif, Aseer Manilal, Akbar Idhayadhulla, Monatsh Chem (Chemical monthly- springer), 2017; (IF: 1.50), (SCIE)

42. Synthesis of new morpholine-connected pyrazolidine derivatives and their antimicrobial, antioxidant, and cytotoxic activities, RadhakrishnanSurendra Kumar, Meera Moydeen,Salem S.Al-Deyab, Aseer Manilal, AkbarIdhayadhulla, Bioorganic & Medicinal Chemistry Letters, 27(2017)66-71 (IF:2.448), (SCI) PubMed.

41. Efficient Synthesis of novel Phenyl-5thioxo-3,4,5,6-tetrahydroimidazo [4,5-c]pyrazole-2(1H)-carbothioamide Derivatives Using a CeO2–MgO Catalyst and Evaluation of Antimicrobial Activity, Meera Moydeen,a Salem S. Al-Deyab, Radhakrishnan Surendra Kumar, and Akbar Idhayadhulla , Journal of Heterocyclic Chemistry, 54 (2017)3208-3219(IF:1.244), (SCI)

40. Biological Evaluation of Some Imidazolidine-2,4-dione and 2-thioxoimidazolidin-4- one Derivatives as Anticoagulant Agents and Inhibition of MCF-7 Breast Cancer Cell Line, 1,2Ashraf A. Mostafa, 1Abdullah N. Al-Rahmah, **R. Surendra Kumar**, Asser Manilal and Akbar Idhayadhulla, International Journal of Pharmacology,12(**2016**)290-303; (IF:0.75), (SCIE).

39.Anti-inflammatory and antimicrobial activities of novel pyrazole analogues, **R. Surendra Kumar**, Ibrahim A. Arif, Anis Ahamed, Akbar Idhayadhulla, Saudi Journal of Biological Sciences, 23 (**2016**)614–620; (IF:2.820), (SCIE) PubMed.

38.Larvicidal, nematicidal, antifeedant and antifungal, antioxidant activities of Mentha spicata (Lamiaceae) root extracts,Abdullah Alaklabi, Ibrahim A Arif, Anis Ahamed, Aseer Manilal, **Radhakrishnan Surendrakumar** and Akbar Idhayadhulla, Tropical Journal of Pharmaceutical Research, 11(**2016**)2383-2390, (IF:0.569), (SCIE).

37. Anti-Inflammatory Activity of New Series of 1,4-Dihydropyridine Derivatives, A. Idhayadhulla, **R. Surendra Kumar,** A. Jamal Abdul Nasser,1 S. Kavimani, and S. Indhumathy, *Pharmaceutical Chemistry Journal*, 49(**2015**) (IF: 0.510)(SCIE).

36. Nematicidal, larvicidal and antimicrobial activities of some new mannich base imidazole derivativesChen, X., Lee, S.W., Idhayadhulla, A., Kumar, R.S., Manilal, A.2015Tropical Journal of Pharmaceutical Research 14(8), pp. 1435-1443

35.Synthesis of some Mannich base derivatives and their antimicrobial activity study, R.Surendra Kumar A.Idhayadhulla A.JamalAbdul Nasser[a]J.Selvin[b]AseerManilal Arabian Journal of Chemistry, (IF: 3.2)(SCIE).

34.Synthesis and antimicrobial activity of some new pyrrole derivatives, A Idhayadhulla, R Surendra Kumar, AJ Abdul Nasser, A Manilal, Bull. Chem. Soc. Ethiop. 2012, 26(3), 429-435. (IF: 0.765)(SCIE).

33.Synthesis of New Series of Pyrazole and Imidazole Derivatives and their Antimicrobial Activity, Idhayadhulla A, R.Surendrakumar, Abdul NA. Acta Chim Slov. 2012 Jun;59(2):405-12. (IF: 0.983) (SCI).

32.Synthesis and anticonvulsant activity of some new series of pyrrole derivatives, Idhayadhulla,R. SurendraKumar,A. JamalAbdulNasser,S. KavimaniS. Induma ty,Medicinal Chemistry Research, 2012, Volume 21, Issue 11, pp 3699–3708 (IF:1.72)(SCIE).

31. Synthesis of some Mannich base derivatives and their antimicrobial activity studyIdhayadhulla, A., Surendra Kumar, R., Abdul Nasser, A.J., Selvin, J., Manilal, A.2014Arabian Journal of Chemistry 7(6), pp. 994-999

30. Evaluating the antagonistic potential of seaweed-associated marine bacteria collected from the southwest coast of IndiaSugathan, S., Manilal, A., Selvin, J., Idhayadhulla, A., Kumar, R.S., Panikkar, M.V.N.2012Asian Journal of Animal and Veterinary Advances 7(7), pp. 578-587

29. Synthesis of some pyrrole derivatives and their anticoagulant activityIdhayadhulla, A., Surendra Kumar, R., Jamal Abdul Nasser, A., Manilal, A.2012American Journal of Drug Discovery and Development 2(1), pp. 40-49.

28. Synthesis of some new pyrrole derivatives and their antimicrobial activityIdhayadhulla, A., Surendra Kumar, R., Jamal Abdul Nasser, A., Manilal, A.2011Der Pharma Chemica 3(4), pp. 210-218.

27. Synthesis and antimicrobial activity of some new mannich base derivativesIdhayadhulla, A., Surendra Kumar, R., Jamal Abdul Nasser, A., Manilal, A.2011Journal of Chemical and Pharmaceutical Research 3(4), pp. 904-911.

26. Synthesis, Characterization and Antimicrobial Activity of New Pyrrole Derivatives, Akbar Idhayadhulla, **Radhakrishnan Surendra Kumar**, and Abdul Jamal Abdul Nasser J. Mex. Chem. Soc. 2011, 55(4), 218-223 (IF:0.42),(SCIE)

25. Synthesis and anticoagulant activity of a new series of 1,4-dihydropyridine derivatives, **R.SurendraKumar**[a] A.Idhayadhulla[a]A. JamalAbdul Nasser[a]J.Selvin[b], European Journal of Medicinal Chemistry, 46, (2011), 804-810 (IF:4.8) (SCI) PubMed.

24. Synthesis and antimicrobial activity of a new series 1,4-dihydropyridine derivatives, **Radhakrishnan Surendra Kumar**, Akbar Idhayadhulla, Abdul Jamal Abdul Nasser And Joseph Selvin2, J. Serb. Chem. Soc. 76 (1) 1–11 (2011). (IF: IF 0.828) (SCIE)

23. Optimization and characterization of rhamnolipid biosurfactant from sponge associated marine fungi Aspergillus sp. MSF1, G. Seghal Kiran,N. Thajuddin,T.A. Hema,A. Idhayadhulla, **R. Surendar Kumar** & Joseph Selvin, Desalination and Water Treatment, 24 (2010), Pages 257-265. (IF: 1.234).(SCIE).

22. Synthesis and anticancer activity of some new series of 1,4- Dihydropyridine derivatives, **R. Surendra Kumar**, A. Idhayadhulla, A. Jamal Abdul Nasser, K. Murali, *Indian Journal of Chemistry, Sec-B, 50B(2011)1140. (IF: 0.59),* (SCIE)

21. Synthesis and Anticonvulsant Activity of a New Series of 1,4- Dihydropyridine Derivatives, **R. Surendra Kumar**, A. Idhayadhulla, A. Jamal Abdul Nasser, S. Kavimani,[1] and S. Indumathy[1]Indian **J** Pharm Sci. 2010 Nov-Dec; 72(6): 719– 725. (SCIE) PubMed.

20. Synthesis of Some 2-Thioxo-imidazolidin-4-one Derivatives and itsAntimicrobial Activity, A. Jamal Abdul Nasser, A. Idhayadhulla, **R. Surendra Kumar**, and **J.** Selvin, E-Journal of Chemistry, Volume 7, Issue4, Pages 1320-1325, (SCIE)

19. Synthesis and Biological Activities of New Series of Imidazolidin-2,4-Dione Derivatives, A. Jamal Abdul Nasser*, A. Idhayadhulla, **R. Surendra Kumar** and **J.** Selvin, Asian **J.** Chem. (Scopus) 2010 /22(8) /5853-5858,

18. Ethyl 3,5-Dimethyl-4-[(4-phenyl-1,3-thiazol-2-yl)carbamoyl]-1H-pyrrole-carboxylate, **Radhakrishnan Surendra Kumar**, Akbar Idhayadhulla and Abdul Jamal Abdul Nasser Molbank (Scopus) 2010, M672; doi:10.3390/M672.

17. Synthesis and antimicrobial activity of some 2-thioxo-imidazolidin-4-ones, A. Jamal Abdul Nasser, A.Idhayadhulla, **R. Surendra Kumar**, Joseph Selvin, Indian Journal of Heterocyclic Chemistry 18(4),2009, 399-400. (SCIE).

16. Synthesis and biological activity of some 3, 1-substituted-2-thioxo- imidazolin-4-one, imidazoline-2.4-dione derivatives, A. Jamal Abdul Nasser, **R. Surendra Kumar**, A.Idhayadhula, Joseph Selvin, Indian Journal of Heterocyclic Chemistry 17(3):2008, 269-270, (SCIE)

15. Synthesis of some new series of Mannich base derivatives and their antimicrobial activity, **R. Surendra Kumar**, A. Jamal Abdul Nasser, *Orbital.* (Scopus)3(2011)32-38.

14. Synthesis, characterization and electrochemical behavior of transition metal (II) complexes from 2,6-diphenyl-piperidin-4-thiosemicarbazone and their antimicrobial studies,A. Jamal Abdul Nasser, A. Pasupathy , **R. Surendra Kumar** and A. Idhayadhulla, *Asian Journal of Research in Chemistry, 3(2010)1022.*

13.In-vitro antibacterial and cytotoxicity evaluation of some novel tetrazole derivatives, Anis Ahamed, Ibrahim A. Arif, Meera Moydeen , Radhakrishnan Surendra Kumar, and Akbar Idhayadhulla, International Journal of Pharmaceutical Sciences and Research, (Scopus) 2018; Vol. 9(8): 1000-06.

12. Evaluating the In Vitro Antagonism of Secondary Metabolites Fractionated from the Brown Algae, Sargassum swartzii against Human Candida spp. Aseer Manilal, Gemechu Ameya, Tigist Gezmu, Behailu Merdekios, Sabarathnam Balu, Akbar Idhayadhulla, **R. Surendra Kumar,**Transl Biomed. (Scopus)**2016**, 7:1

11. Nematicidal, Larvicidal and Antimicrobial Activities of Some New Mannich Base Imidazole Derivatives, Xiangxiong Chen, Seung Woo Lee, Akbar Idhayadhulla**,** **Radhakrishnan Surendra Kumar** and Aseer Manilal Tropical Journal of Pharmaceutical Research, (Scopus) August 2015; 14 (8): 1435-1443.

10. Environmental biotoxicity screening of some pyrrole and 1,4- dihydropyridine heterocyclic derivatives, A. Idhayadhulla , Aseer Manilal , Behailu Merdekios and **R**. **Surendra Kumar**, Journal of Applied Pharmaceutical Science, (Scopus) Vol. 5 (05), pp. 101-105, May, 2015.

09. Anticonvulsant, analgesic and anti-inflammatory activities of some novel pyrrole and 1,4-dihydropyridine derivatives, S. Indumathi, R. Karthikeyan, A. Jamal Abdul Nasser, A. Idhayadhulla and **R. Surendra Kumar** Journal of Chemical and Pharmaceutical Research, (Scopus) 2015, 7(2):434-440.

08. **R. Surendra Kumar** et al., Synthesis and evaluation of antimicrobial activity of novel 3-{[1-pyridin-2-yl methylene]amino}-2-thioxoimidazolidin-4-one analogues, January 2015, Der Pharmacia Lettre (Scopus) 7(4):198-204.

07. **R. Surendra Kumar,** Aseer Manilal, A. Jamal Abdul Nasser, Behailu Merdekios, Xiangxiong Chen and A. Idhayadhulla, 2014. Synthesis of Novel and Diverse 1, 4-dihydropyridine Analogues and their Antimicrobial and Anticancer Activities. Journal of Pharmacology and Toxicology, 9: 119-128.

06. Synthesis of Some New Pyrrole and Pyridine Derivatives and their Antimicrobial, Anticancer Activities, Akbar Idhayadhulla**, Radhakrishnan Surendra Kumar,** Abdul Jamal Abdul Nasser **and** Aseer Manilal**,** International Journal of Biological Chemistry, Volume 7 (1): 15-26, 2013.

05. Evaluating the Antagonistic Potential of Seaweed-associated Marine Bacteria Collected from the Southwest Coast of India, Sujith Sugathan, Aseer Manilal, Joseph Selvin, Akbar Idhayadhulla, **Radhakrishnan Surendra Kumar** and M.V.N. Panikkar, Asian Journal of Animal and Veterinary Advances, Year: 2012 **|** Volume: 7 **|** Issue: 7 **|** Page No.: 578-587.

04. Synthesis of Some Pyrrole Derivatives and their Anticoagulant Activity, A. Idhayadhulla, **R. Surendra Kumar**, A. Jamal Abdul Nasser and Aseer Manilal, American Journal of Drug Discovery and Development Year: 2012 **|** Volume: 2 **|** Issue: 1 **|** Page No.: 40-49.

03. Biopotentials of marine alga, Lobophora variegate collected from the south Indian littoral, Aseer Manilal, Joseph Selvin, Nooruddin Thajuddin, Sugathan Sujith, Mvn Panikkar, Akbar Idhayadhulla & **Radhakrishnan Surendra Kumar,** Thalassas (Scopus) 28(1):47-55, (SCIE).

02. In vitro Mosquito Larvicidal Activity of Marine Algae Against the Human Vectors, Culex quinquefasciatus (Say) and Aedes aegypti (Linnaeus) (Diptera: Culicidae), Aseer Manilal, Nooruddin Thajuddin, Joseph Selvin, Akbar Idhayadhulla, **Radhakrishnan Surendra Kumar** and Sugathan Sujith, International Journal of Zoological Research, Year: 2011 | Volume: 7 | Issue: 3| Page No.: 272-278.

01. Synthesis and characterization of new series of imidazolidin-2,4-dione derivatives and its antimicrobial activity, **R. Surendra Kumar,** A. Idhayadhulla, A. Jamal Abdul Nasser and J. Selvin Orient J Chem, Vol. 26(4), 1425-1430 (2010).

## 17. DETAILS OF PRESENTATION(S)

**(Conference(s) / Seminar(s))**

**Oversee visit**

1. **Paper title:** "Anticoaulant and cytotoxic activities of novel Imidazolidine2,4dione and 2thioxoimidazolidin4-one derivatives" May28-31, 2017. XVII International Conference on Heterocycles in Bioorganic Chemistry, National Univerity of Ireland Galway, **Ireland.**

**International paper Presentation**

1. "Analgesic activity of some new 1,4-dihydropyridine derivatives" - 2nd International Conference on Medicinal Chemistry & Computer Aided Drug Designing – OMICS group- (***October 15-17, 2013***) Hampton Inn Tropicana, Las Vegas, NV, **USA**.

**International paper Presentation (Oral)**

1. Anticancer activity of some 1,4-dihydropyridine derivatives – OMICS group- (Sep-10-12,2012) Hilton San Antonio, **USA**.

**Paper presented in India**

1. 24th ISCB International Conference (ISCBC-2018), Manipal University Jaipur, January 11-13, 2018.Design and synthesis of linoleic acid peroxidation inhibitors of morpholine- connected pyrazolidine derivatives induced by effective antimicrobial activity
2. "Synthesis and antibacterial evalution of some novel imidazolidin derivatives"International Symposium on Recent Advances Medicinal Chemistry (ISRAM-2014) (*Sep- 2014)*– NIPER, Punjab, India
3. "Imidazolidin-2,4-dione: Structure–activity relationship and stereo Chemical approach "- 18th International Conference (ISCCBC-2012)- Perspective and Challenges in Chemical and Biological Science (*28th - January - 2012*)- Institute of Advanced study in Science & Technology – Guwahati- India.
4. 13th ISCB International Conference on (*ISCBC-2009*), "Synthesis of Pyrrole Derivative and their Pharmacological Applications" March- 2009, New Delhi University.
5. International Conference on Drug Discovery and Nanotechnology(*January-2008*) "Synthesis, characterization and pharmacological evaluation of various hetero cyclic Rings formed in 3, 8-position of 2, 4-dimethyl pyrrole derivatives" Yeshwant mahavidyalaya, Nanded, Maharashtra

**Orientation programme**

1. UGC- Sponsored Orientation programme -118th, UGC-HRDC Bharathiyr University, 17-11-2017 to 14-12-2017.

**Refrescher Programe**

01. UGC Sponsored Online Refresher Course in Chemistry conducted by the UGC – Human Resource Development Centre, Bharathiar University held from 10.11.2021 to 23.11.2021

## Faculty Development Programme

1. Faculty Development Programme , Student Skills: Mentoring and counselling, Nehru Memorial college, Under the aegis of UGC autonomous Grant, 30th May 2019.

**Workshops**

1. Green Chemistry workshop for undergraduate teachers held in IISER Pune from 6th to 8th, November 2017.

2. Workshop on "THEORY AND HANDS ON EXPERIENCE ON 3 DIMENSIONAL STRUCTURE DETERMINATION OF DERUD/DRUG LIKE MOLECULES USING X-RAY CRYSTALLOGRAPHY" (Sponsored by CSIR & ICMR), held in Gandidhigram Rural University during 14th and 15th March 2018.
3. 10-Day Hands on Training on Advanced Molecular Docking on October 16-26, 2021. Calicut University,Kerala.