CURRICULUM VITAE

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Research Area of Interest: New drug development research and their pharmacological evaluation of Some Bioactive nitrogen and oxygen atom bearing heterocyclic molecules *viz* coumarin, thiazole, β-carboline so on. Design semisynthetic natural products and chemical Interpretation through different different spectra studies UV, FTIR, ^{1}HNMR, ^{13}CNMR, and Mass spectral techniques. *In-silico* investigations of newly designed of semi-symthetic phyco-consituents by the different tools, SARs based drug design ; Isolation and extraction of phytochemical techniques. Development of newer candidates of antiinfective and antimycobacterial agents and also designed new schematic for development of anticancer agents

Research Publications

1. Monalisa Mahapatra, Priyanka Mohapatra, Kakarla Pakeeraiah, Ravi Kumar Bandaru, Iqrar Ahmad, Suvadeep Mala, Rambabu Dandela, Sanjeeb Kumar Sahoo, Harun Patel, **Sudhir Kumar Paidesetty** "*In-vitro* anticancer evaluation of newly designed and characterized tri/tetra-substituted imidazole congeners- Maternal Embryonic Leucine Zipper Kinase inhibitors: molecular docking and MD Simulation approaches" ***International Journal of Biological Macromolecules*** **249 (2023) 126084 SCI Impact factor 8.87**
   https://doi.org/10.1016/j.ijbiomac.2023.126084

2. Swati Sucharita Mohanty, Chita Ranjan Sahoo, **Sudhir Kumar Paidesetty**, Rabindra Nath Padhy "Role of phytocompounds as the potential anti-viral agent: An overview" ***Naunyn-Schmiedeberg's Archives of Pharmacology*****, Accepted, SCI Impact factor 3.21 10.1007/s00210-023-02517-2**
3. Chita Ranjan Sahoo , **Sudhir Kumar Paidesetty** , Budheswar Dehury , Rabindra Nath Padhy "Computational study on schiff base derived salicylaldehyde and

furfuraldehyde derivatives as potent anti-tubercular agents: Prospect to dihydropteroate synthase inhibitors" ***Journal of Biomolecular Structure and Dynamics***,2023, **SCI Impact factor 5.23** 10.1080/07391102.2023.2217918

4. Monalisa Mahapatra, Priyanka Mohapatra, Sanjeeb Kumar Sahoo, Ajit Kumar Bishoyi, Rabindra Nath Padhy, **Sudhir Kumar Paidesetty** "Design, synthesis, and in-silico study of chromen-sulfonamide congeners as potent anticancer and antimicrobial agents" ***Journal of Molecular Structure***, 1283, (2023), 135190 **SCI Impact factor 3.86** https://doi.org/10.1016/j.molstruc.2023.135190
5. Suvadeep Mal, Tiyasa Saha, Asim Halder, **Sudhir Kumar Paidesetty**, Suvadra Das, Wong Tin Wui, Urmi Chatterji, Partha Roy "EGF-conjugated bio-safe luteolin gold nanoparticles induce cellular toxicity and cell death mediated by site-specific rapid uptake in human triple negative breast cancer cells" ***Journal of drug and delivery system and technology*** 80 (2023), 104148 **SCI Impact factor 5.26** https://doi.org/10.1016/j.jddst.2022.104148
6. Shasank S. Swain, **Sudhir Kumar Paidesetty**, Rabindra N Padhy, Tahziba Hussain "Nano-technology platforms to increase the antibacterial drug suitability of essential oils: A drug prospective assessment" **OpenNano** 9 (2023) 100115 10.1016/j.onano.2022.100115
7. Monalisa Mahapatra, Suman K. Mekap, Suvadeep Mal, Jyotirmaya Sahoo, Sanjeeb K. Sahoo, **Sudhir K. Paidesetty** "Coumaryl-Sulfonamide Moiety: Unraveling their synthetic strategy and specificity towards hCA IX/XII facilitating anti-cancer drug development" **Archive der Pharmazie**. 2023, 356(4), 2200508, 10.1002/ardp.202200508 **SCI Impact factor 5.1**
8. Suvadeep Mal, Udita Malik, Monalisa Mahapatra, Abhishek Mishra, Dilipkumar Pal, **Sudhir Kumar Paidesetty** "A Review on synthetic strategy, molecular pharmacology of Indazole derivatives, and their future perspective" ***Drug Dev Res***. 2022, 83 (7):1469-1504. Wiley pub. **SCI Impact factor 5.00 10.1002/ddr.21979**
9. Sekhar, S.S., M Mahapatra, Ravi Kumar, B.V.V., **Kumar, P.S.** "In silico and in vitro antibacterial assessment of newly synthesized Ni(II) complexes of thiosemicarbazone" ***Asian Journal of Chemistry***, 2022, 34(10), 2675–2682
10. M Mahapatra, **SK Paidesetty**, AK Bishoyi, RN Padhy "Design, molecular docking study of synthesised *N*- heteroaryl substituted gallamide derivatives and their antibacterial assessment" ***Natural Product Research*** 2022, 36 (21), 5575–5583 10.1080/14786419.2021.2022662, Taylor &Francis **SCI Impact factor 2.88**

11. A K Bishoyi, M Mahapatra, **SK Paidesetty**, RN Padhy" Design, molecular docking and antimicrobial assessment of newly synthesized p-cuminal-sulfonamide Schiff base derivatives" ***Journal of Molecular Structure***, 2022, 1250 131824, 10.1016/j.molstruc.2021.131824 **,** Elsevier. **SCI Impact factor 3.86**
12. CR Sahoo, **SK Paidesetty**, S Sarathbabu, B Dehury, N Senthil Kumar, ."Molecular dynamics simulation, synthesis and topoisomerase inhibitory actions of vanillin derivatives: a systematic computational structural integument" ***Journal of Biomolecular Structure and Dynamics***, 2022;40(22):11653-11663. 10.1080/07391102.2021.1961867 Taylor &Francis **SCI Impact factor 5.02**
13. AK Bishoyi, M Mahapatra, **SK Paidesetty**, RN Padhy"Design, molecular docking, and antimicrobial assessment of newly synthesized phytochemical thymol Mannich base derivatives" ***Journal of Molecular Structure***, 2021, 1244, 130908 10.1016/j.molstruc.2021.130908 Elsevier **SCI Impact factor 3.86**
14. Swain, S.S., **Paidesetty, S.K.**, Padhy, R.N."Phytochemical conjugation as a potential semisynthetic approach toward reactive and reuse of obsolete sulfonamides against pathogenic bacteria" ***Drug Dev Res***. 2021, 82(2), 149–166 10.1002/ddr.21746 Wiley pub. **SCI Impact factor 5.00**
15. Chita Ranjan Sahoo, Surendra Swain, Alexander Maniangat Luke, **Sudhir Kumar Paidesetty** & Rabindra Nath Padhy "Biogenic synthesis of silver-nanoparticles with the brackish water cyanobacterium Nostoc sphaeroides and assessment of antibacterial activity against urinary tract infecting bacteria" ***Journal of Taibah University for Science*** 2021, 15(1), 805–813 https://doi.org/10.1080/16583655.2021.2005909
16. Sahoo, C.R., Sahoo, J., Mahapatra, M., ...Nath Padhy, R., **Kumar Paidesetty, S.** "Coumarin derivatives as promising antibacterial agent(s)" ***Arabian Journal of Chemistry***, 2021, 14(2), 102922, 10.1016/j.arabjc.2020.102922. Elsevier **SCI Impact factor 6.21**
17. Sahoo, C.R., **Paidesetty, S.K.**, Padhy, R.N. "The recent development of thymol derivative as a promising pharmacological scaffold**"** ***Drug Development Research***, 2021, 82,1079-1095, 10.1002/ddr.21848, Wiley pub **SCI Impact factor 5.00**
18. Sahoo, C.R., **Paidesetty, S.K.**, Dehury, B., Padhy, R.N. "Molecular dynamics and computational study of Mannich-based coumarin derivatives: potent tyrosine kinase inhibitor" ***Journal of Biomolecular Structure and Dynamics***, 2020, 38(18), 5419. 5428, 10.1080/07391102.2019.1701554 Taylor &Francis **SCI Impact factor 5.26**

19. Swain, S.S., **Paidesetty, S.K.**, Dehury, B., ...Vedithi, S.C., Padhy, R.N. "Computer-aided synthesis of dapsone-phytochemical conjugates against dapsone-resistant Mycobacterium leprae" ***Scientific Reports***, 2020, 10(1), 6839 10.1038/s41598-020-63913-9 Springer nature **SCI Impact factor 4.99**
20. Swain, S.S., Paidesetty, S.K., Padhy, R.N., Hussain, T. "Isoniazid–phytochemical conjugation: A new approach for potent and less toxic anti-TB drug development" ***Chemical Biology and Drug Design***,2020, 96(2), 714–730 10.1111/cbdd.13685 Wiley pub **SCI Impact factor 2.86**
21. Sahoo, C.R., **Paidesetty, S.K.**, Padhy, R.N. "Nostocine a derivatives as human dna topoisomerase ii-alpha inhibitor" ***Indian Journal of Pharmaceutical Education and Research***, 2020, 54(3), 698–704 10.5530/ijper.54.3.120 **SCI Impact factor 0.85**
22. Nandini, S.P.K., Jyotirmaya, S., Ranjan, S.C., **Kumar, P.S.**, Prasad, M.G. "In-silico and in vitro assessment of synthesized diazenylsulfonamides as apoptosis inducers and radical scavengers" ***Indian Drugs***, 2020, 57(6),. 49–59 10.53879/id.57.06.12458 **SCI Impact factor 0.22**
23. Sahoo, C.R., Maharana, S., Mandhata, C.P.,.**Paidesetty, S.K.**, Padhy, R.N. "Biogenic silver nanoparticle synthesis with cyanobacterium Chroococcus minutus isolated from Baliharachandi sea-mouth, Odisha, and in vitro antibacterial activity" ***Saudi Journal of Biological Sciences***, 2020, 27(6), 1580–1586 10.1016/j.sjbs.2020.03.020 Elsevier **SCI Impact Factor 4.05**
24. Sekhar, S.S., Ranjan, S.C., Jyotirmaya, S., ...Ravi Kumar, B.V.V., **Kumar, P.S**. "Design, synthesis of Schiff base Ciprofloxacin - Vanillin derivatives as potent bacterial DNA gyrase inhibitors" ***Indian Drugs***, 2020, 57(3),. 21–26 10.53879/id.57.03.12279 **SCI Impact Factor 0.21**
25. Baral, N., Mishra, D.R., Mishra, N.P., ...Nayak, M., **Kumar, P.S.** "Microwave-assisted rapid and efficient synthesis of chromene-fused pyrrole derivatives through multicomponent reaction and evaluation of antibacterial activity with molecular docking investigation" ***Journal of Heterocyclic Chemistry***, 2020, 57(2), 575–589 10.1002/jhet.3773 Wiley pub **SCI Impact factor 2.193**
26. Sahoo, J., Sahoo, C.R., Nandini Sarangi, P.K., ...Padhy, R.N., **Paidesetty, S.K.** "Molecules with versatile biological activities bearing antipyrinyl nucleus as pharmacophore" ***European Journal of Medicinal Chemistry***, 2020, 186, 111911. 10.1016/j.ejmech.2019.111911 Elsevier **SCI Impact factor 7.08**

27. Sahoo, J., Kshiroda, P., Sarangi, N., Rout, S.K., **Paidesetty, S.K**. "In silico investigation and biological evaluation of synthesized sulfamethoxazole derivatives" ***Indian Journal of Pharmaceutical Sciences***, 2020, 82(1), 123–130 10.36468/pharmaceutical-sciences.629, **SCI Impact factor 0.85**
28. Swain, S.S., **Paidesetty, S.K.**, Padhy, R.N. "Synthesis of novel thymol derivatives against MRSA and ESBL producing pathogenic bacteria" ***Natural Product Research***, 2019, 33(22), 3181–3189 10.1080/14786419.2018.1474465 Taylor &Francis **SCI Impact factor 2.43**
29. Sahoo, C.R., Paidesetty, S.K., Padhy, R.N. "Nornostocine congeners as potential anticancer drugs: An overview" ***Drug Dev Res***. 2019, 80(7), 878–892 10.1002/ddr.21577 Wiley pub **SCI Impact factor 5.00**
30. Baral, N., Mohapatra, S., Raiguru, B.P., ...**Kumar, P.S.**, Sahoo, C.R. "Microwave-Assisted Rapid and Efficient Synthesis of New Series of Chromene-Based 1,2,4-Oxadiazole Derivatives and Evaluation of Antibacterial Activity with Molecular Docking Investigation" ***Journal of Heterocyclic Chemistry***, 2019, 56(2), pp. 552–565, 10.1002/jhet.3430 Wiley pub **SCI Impact factor 2.193**
31. Sahoo, C.R., **Paidesetty, S.K.**, Padhy, R.N. "Norharmane as a potential chemical entity for development of anticancer drugs" ***European Journal of Medicinal Chemistry***, 2019, 162, pp. 752–76410.1016/j.ejmech.2018.11.024 Elsevier **SCI Impact factor 7.06**
32. Sahoo, C.R., Patro, R., Sahoo, J., Padhy, R.N**., Paidesetty, S.K.** "Design, molecular docking of synthesized schiff-based thiazole/pyridine derivatives as potent antibacterial inhibitor" ***Indian Drugs***, 2019, 56(11), pp. 20–25 SCI Impact factor 0.22
33. Swain, S.S., **Paidesetty, S.K.**, Dehury, B., ...Hussain, T., Padhy, R.N. "Molecular docking and simulation study for synthesis of alternative dapsone derivative as a newer antileprosy drug in multidrug therapy***" Journal of Cellular Biochemistry***, 2018, 119(12), 9838–9852 10.1002/jcb.27304 Wiley pub **SCI Impact factor 4.48**
34. Thakur, A.S., Deshmukh, R., Jha, A.K., **Kumar, P.S.** "Molecular docking study and anticonvulsant activity of synthesized 4-((4,6-dimethyl-6H-1,3-thiazin-2-yl)phenylsulfonyl)urea/thiourea derivatives" ***Journal of King Saud University - Science***, 2018, 30(3), 330–336 10.1016/j.jksus.2016.12.006 Elsevier **SCI Impact factor 4.01**
35. Sahoo, J., Paidesetty, S.K."Biological investigation of novel metal complexes of 2-amino-4-substituted phenylthiazole Schiff bases"***Journal of Taibah University***

Medical Sciences, 2018, 13(2), 142–155 10.1016/j.jtumed.2017.10.007 Elsevier SCI Impact factor 0.00

36. Deshmukh, R., Thakur, A.S., Jha, A.K., Kumar, S.P."Synthesis and anticonvulsant activity of some novel semicarbazone containing benzoxazole: Pharmacophore model study "***Current Bioactive Compounds***, 2018, 14(2), pp. 153–162 10.2174/1573407213666170125125138 Bentham sciences, **SCI Impact factor 1.09**
37. Jyotirmaya, S., Kumar, P.S." A study on antimicrobial evaluation of newly synthesized antipyrin analogues"***Indian Journal of Pharmaceutical Education and Research***, 2017, 51(4), 740–747 10.5530/ijper.51.4.108 SCI Impact factor 0.85
38. Swain, S.S., Paidesetty, S.K., Padhy, R.N."Antibacterial, antifungal and antimycobacterial compounds from cyanobacteria "***Biomedicine and Pharmacotherapy***, 2017, 90, pp. 760–776 10.1016/j.biopha.2017.04.030 Elsevier **SCI Impact factor 7.41**
39. Swain, S.S., Paidesetty, S.K., Padhy, R.N., Singh, P.K." Computational approach for locating effective cyanobacterial compounds against Mycobacterium tuberculosis" ***Indian Journal of Pharmaceutical Education and Research***, 2017, 51(2), pp. 302–31110.5530/ijper.51.2.36 **SCI Impact factor 0.85**
40. Swain, S.S., Paidesetty, S.K., Padhy, R.N." Antibacterial activity, computational analysis, and host toxicity study of thymol-sulfonamide conjugates***" Biomedicine and Pharmacotherapy***, 2017, 88, pp. 181–193 10.1016/j.biopha.2017.01.036 Elsevier **SCI Impact factor 7.41**
41. Sahoo, J., Paidesetty, S.K."Antimicrobial activity of novel synthesized coumarin based transitional metal complexes" ***Journal of Taibah University Medical Sciences***, 2017, 12(2), 115–124 10.1016/j.jtumed.2016.10.004 Elsevier SCI Impact factor 0.00
42. Swain, S.S., Paidesetty, S.K., Padhy, R.N." Development of antibacterial conjugates using sulfamethoxazole with monocyclic terpenes: A systematic medicinal chemistry based computational approach" ***Computer Methods and Programs in Biomedicine***, 2017, 140, pp. 185–194 10.1016/j.cmpb.2016.12.013 Elsevier **SCI Impact factor 7.02**
43. Sarangi, P.K.N., Sahoo, J., Paidesetty, S.K., Mohanta, G.P." Synthesis, spectral characterization and anticancer evaluation of new diazenyl Schiff base derivatives" ***Indian Drugs***, 2017, 54(2), pp. 20–28 https://doi.org/10.53879/id.54.02.10877 **SCI Impact factor 0.21**

44. Sarangi, P.K.N., Sahoo, J., Behera, S., Paidesetty, S.K., Mohanta, G.P.” Cytotoxic investigation of some newly synthesized quinoline-thiazole based azo compounds” ***Indian Journal of Chemistry - Section B Organic and Medicinal Chemistry***, 2017, 56B, pp. 1256–1264 10.13140/RG.2.2.10997.42725 NISCAR, **SCI Impact factor 0.592**
45. Jyotirmaya, S., Kshiroda Nandini, S.P., Kumar, P.S.”In vitro antimicrobial investigations of newly synthesized transitional bivalent metal complexes derived from 8-hydroxyquinoline”***Indian Journal of Pharmaceutical Education and Research***, 2017, 51(3), pp. 480–489 10.5530/ijper.51.3.76 **SCI Impact factor 0.5**
46. Sarangi, P.K.N., Sahoo, J., Swain, B.D., Paidesetty, S.K., Mohanta, G.P.”Thiazoles as potent anticancer agents: A review” ***Indian Drugs***, 2016, 53(11), pp. 5–11 10.53879/id.53.11.10755 **SCI Impact factor 0.21**
47. Sahoo, J., Parween, G., Sahoo, S., ...Sahoo, S., Paidesetty, S.K.”Synthesis, spectral characterization, in silico and in vitro antimicrobial investigations of some Schiff base metal complexes derived from azo salicylaldehyde analogues”***Indian Journal of Chemistry - Section B Organic and Medicinal Chemistry***, 2016, 55B(10), pp. 1267–1276 NISCAR **SCI Impact factor 0.592**
48. Sahoo, J., Paidesetty, S.K.”Medicinal interest of AZO-based organic compounds: A review”***Asian Journal of Pharmaceutical and Clinical Research***, 2016, 9, pp. 33–39 https://innovareacademics.in/journals/index.php/ajpcr/article/view/12943.
49. Thakur, A.S., Deshmukh, R., Jha, A.K., Kumar, P.S.”Synthesis and anticonvulsant effect of novel Thiazolidinedione containing benzene-sulfonylurea and Sulfonylthiourea derivatives”***Central Nervous System Agents in Medicinal Chemistry***, 2016, 16(2), pp. 152–157 10.2174/1871524915666150824154136 Bentham sciences, **SCI Impact factor 1.956**
50. Sahoo, J., Sahoo, S., Paidesetty, S.K.”Biological evaluation of novel a-heteroaryl/arylazo 2-naphthol analogs and the transitional metal complexes derived from 4-((2-hydroxynaphthalen-1-yl) diazenyl)-1, 5-dimethyl-2-phenyl-1H-pyrazol-3(2H)-one”***Indian Drugs***, 2016, 53(7), pp. 15–2410.53879/id.53.07.10645 **SCI Impact factor 0.21**
51. Sahoo, J., Kumar, P.S.” Study of solvatochromic behavior and antimicrobial activities of some newly synthesized bis-azo-dapsone congeners” ***Indian Journal of Chemistry - Section B Organic and Medicinal Chemistry***, 2016, 55B(6), pp. 724–733 http://hdl.handle.net/123456789/34366 NISCAIR, **SCI Impact factor 0.592**

52. Deshmukh, R., Thakur, A.S., Jha, A.K., Sudhir Kumar, P.” Anticonvulsant and neurotoxicity of some novel 1-([1,3,4]thiadiazino[6,5- b]indol-3-yl Semicarbazides” ***Central Nervous System Agents in Medicinal Chemistry***, 2016, 16(1), pp. 29–3610.2174/1871524915666150623091716 Bentham sciences, **SCI Impact factor 1.956**
53. Thakur, A.S., Deshmukh, R., Jha, A.K., Kumar, P.S.”The design, synthesis and pharmacological evaluation of pyrazole containing sulfonylurea derivatives as potent Gsk3B inhibitor for blood glucose-lowering effect” ***Indian Journal of Heterocyclic Chemistry***, 2016, 26(3-4), pp. 173–178
54. J Sahoo, SK Mekap, PS Kumar” Synthesis, spectral characterization of some new 3-heteroaryl azo 4-hydroxy coumarin derivatives and their antimicrobial evaluation” ***Journal of Taibah University for Science***, 2015, 9 (2), 187-195 10.1016/j.jtusci.2014.08.001 **SCI Impact factor 2.68**
55. Sahoo, J., Sudhir Kumar, P.” Biological evaluation and spectral characterization of 4-hydroxy coumarin analogs” ***Journal of Taibah University Medical Sciences***, 2015, 10(3), pp. 306–319, 186 10.1016/j.jtumed.2015.03.001 SCI Impact factor - 0.00
56. Somyadeep Majhi, S. K. Patro & P. Sudhir Kumar” Visible spectrophotometric estimation of Aripiprazole” ***Asian journal of research in chemistry***, 2015; 8(12), 739-744. 10.5958/0974-4150.2015.00119.4
57. Sahoo, J., Sahoo, S., Sudhir Kumar, P.” Synthesis, characterization and solvatochromic effect of some azo based 2-thioxopyrimidine-4,-6-dione analogues and their antimicrobial evaluation” ***Asian Journal of Chemistry***, 2015, 27(11), pp. 4145–4152 10.14233/ajchem.2015.19136 **SCI Impact factor 0.35**
58. Paidesetty, S.K., Rout, S.K., Sahoo, J.” Antimicrobial and antioxidant activities of some newly synthesized benzene-1, 3-diol congeners and their characterization” ***International Journal of Pharmacy and Pharmaceutical Sciences***, 2015, 7(7), pp. 427–433,
59. Thakur, A.S., Deshmukh, R., Jha, A.K., Sudhir Kumar, P.” Synthesis and oral hypoglycemic effect of novel thiazine containing trisubstituted benzenesulfonylurea derivatives” ***Saudi Pharmaceutical Journal***, 2015, 23(5), pp. 475–482 10.1016/j.jsps.2014.11.017 Elsevier **SCI Impact Factor 4.56**
60. J Sahoo, SK Paidesetty “Study of antimicrobial, analgesic wound healing and antioxidant activities of some newly synthesized oxychinolin derivatives and their

characterization" ***Beni-Suef University Journal of Basic and Applied Sciences***, 2015,4 (3), 232-245 10.1016/j.bjbas.2015.08.001 Elsevier SCI Impact Factor 0.00

61. J Sahoo, SK Paidesetty" Antimicrobial, analgesic, antioxidant and in silico study of synthesized salicylic acid congeners and their structural interpretation" ***Egyptian Journal of Basic and Applied Sciences***, 2015, 2 (4), 268-280 10.1016/j.ejbas.2015.07.006 Elsevier SCI Impact Factor 0.00
62. Sudhir Kumar, P., Sahoo, J." Evaluation of in-vitro antimicrobial activity of some newly synthesized 7-hydroxy 4-methyl coumarin congeners" ***Der Pharmacia Lettre***, 2015, 7(2), pp. 60–64
63. Kar, D.R., Kumar, P.S., Ghosh, G., Sahu, P.K." Isolation and characterization of flavone from the aerial parts of Avicennia alba Blume" ***Oriental Journal of Chemistry***, 2014, 30(2), pp. 705–711 10.13005/ojc/300242
64. Kar, D.R., Ghosh, G., Kumar, P.S., Sahu, P.K." Analgesic and antipyretic activities of the methanolic extract of aerial parts of Avicennia alba Blume" ***International Journal of PharmTech Research***, 2014, 6(3), pp. 874–879
65. Kumar, P.S., Sahoo, J." Anthelmintic evaluation of some novel synthesized 1,2,4-triazole moiety clubbed with benzimidazole ring" ***Oriental Journal of Chemistry***, 2014, 30(1), pp. 211–217 10.13005/ojc/300125
66. DK Sahu, G Ghosh, J Sahoo, PS Kumar" Evaluation of antimicrobial activity of some newly synthesized azo compounds derived from thiobarbituric acid" ***Int J Adv Chem Sci Appl*** 1 (1), 25-27
67. Sudhir Kumar, P., Ghosh, G., Rout, S.K., Paul, D." Synthesis and antimicrobial evaluation of some novel 4-Hydroxy coumarin derivatives bearing azo moiety "***Rasayan Journal of Chemistry***, 2013, 6(2), pp. 147–152 www.rasayanjournal.co.in SCI Impact Factor 0.00
68. Kumar, P.S., Patro, S.K."Synthesis and evaluation of some novel benzimidazole derivatives bearing thiazolidinone moiety as potential antimicrobial activity" ***Asian Journal of Chemistry***, 2013, 25(18), pp. 10449–10453 10.14233/ajchem.2013.15677 SCI Impact factor 0.35
69. Ghosh, G., Das, D., Dinda, A., Kumar, P.S." Antidiabetic effect of various fractions of Habenaria plantaginea root in streptozotocin-induced diabetic rats" ***International Journal of Phytomedicine***, 2012, 4(1), pp. 90–98.
70. Shukla, S., Srivastava, R.S., Shrivastava, S.K., Sodhi, A., Kumar, P." Synthesis, Molecular docking and Biological evaluation of 4-Cycloalkylidineamino 1, 2-

Naphthoquinone Semicarbazones as Anticancer agents" ***Asian Pacific Journal of Tropical Biomedicine***, 2012, 2(2 SUPPL.) Elsevier SCI Impact factor 0.00

71. Ghosh, G., Subudhi, B.B., Mishra, D., Kumar, P.S., Mishra, S.K."Isolation and characterization of 22,23-dihydrostigmasterol (β-sitosterol) from the bark of polyalthia longifolia var. Angustifolia" ***Asian Journal of Chemistry***, 2011, 23(3), pp. 1341–1343
72. Mishra, D., Ghosh, G., Kumar, P.S., Panda, P.K." Anticancer activity of selective cyclooxygenase-2 inhibitor with conventional NSAIDs" ***Asian Journal of Chemistry***, 2011, 23(1), pp. 427–430. SCI Impact factor 0.35
73. Mishra, D., Ghosh, G., Sudhir Kumar, P., Panda, P.K." An experimental study of analgesic activity of selective COX-2 inhibitor with conventional NSAIDs" ***Asian Journal of Pharmaceutical and Clinical Research***, 2011, 4(1), pp. 78–81
74. Subudhi, B.B., Kumar, P.S., Ghosh, G." Synthesis characterization and antimicrobial studies of Zn(II), Cu(II), Pb(II), Ni(II) and Co(II) complexes of 3-(4'-sulfamoyl iminophenyl) isatin" ***Asian Journal of Chemistry***, 2010, 22(6), pp. 4455–4458 **SCI Impact factor 0.35**
75. Mishra, D., Sudhir Kumar, P., Panda, P.K." Evaluation of antimicrobial activity of selective cox-2 inhibitor" ***Rasayan Journal of Chemistry***, 2010, 3(3), pp. 532–538
76. PS Kumar, D Mishra, G Ghosh, CS Panda"Medicinal uses and pharmacological properties of Moringa oleifera"***International Journal of Phytomedicine*** 2 (2010) 210-216
77. PS Kumar, M Debasis, G Goutam, CS Panda "Biological action and medicinal properties of various constituent of Azadirachta indica (Meliaceae): an overview."***Annals of Biological Research*** 2010,1(3), pp.24-34
78. Sudhir Kumar, P. K. Sahu and D. Mishra. "Synthesis of 1, 2, 4 Triazolyl Substituted Quinazoline derivative of their Biological activity" *The Research Network*'vol.4, 2009, 98 -103.
79. Sudhir Kumar, P., Nagoji, K.E.V., Ravi Kumar, B.V.V."Synthesis of 3-ethoxy carbonyl 5-phenyl-1-p-tolyl 1,2,4-triazolo [3,4,-c] 1,2,4-triazole"***Asian Journal of Chemistry***, 2003, 15(1), pp. 515–518 **SCI Impact factor 0.35**
80. Kumar, P.S., Panda, J., Ravi Kumar, B.V.V."Convenient synthesis of 3-(2-pyridyl)- and 8-(2-pyridyl) carbostyrils"***Asian Journal of Chemistry***, 2003, 15(1), pp. 75–78 **SCI Impact factor 0.35**

Research Granted Projects

Sl. No.	Title of the project	Project No. & Status	Funding Agency	PI/Co-PI/Mentor	Amount
1.	Antimicrobial assessment of newly designed Phyto-quinolone antibiotic hybrids against MDR pathogens	AMR/Adhoc/30l /2022-ECD-II	ICMR, New Delhi Extramural Adhoc-Research Grant (2022)	Priniciple Investigator	Continuing 31,37,000
2.	Assessment of antimicrobial potentialities….. human pathogenic organisms	RMC/5/8/11/B.S.	ICMR, New Delhi	Co-PI	Rs. 11,72,000
3.	Antimycobacterial evaluation …..TB drugs	R.12014/14/2017	DHR, New Delhi	Mentor	Completed

Book Chapters

- Chita Ranjan Sahoo, Ajit Kumar Bishoyi, Sudhir Kumar Paidesetty, Budheswar Dehury, Mital Kaneria, Rabindra Nath Padhy" Chemical constituents from a selected plant with antioxidant activity"Natural Remedies and Drug Discovery; Herbal formulation, Phytochemistry and Pharmacognosy " 2023, Aceepted, **Elsevier Pub**.
- Chita Ranjan Sahoo, Chinmayee Priyadarsani Mandhata , Debasmita Dubey, Sudhir Kumar Paidesetty, Kalpna Rakholiya, Rabindra Nath Padhy" Qualitative and quantitative phytochemical analysis of a selected medicinal plant" Natural Remedies and Drug Discovery; Herbal formulation, Phytochemistry and Pharmacognosy " 2023,Aceepted, **Elsevier Pub**.

- P K Sahu, P S Kumar and S K Prusty "ROS based nano-therapeutics: management of Dyslipidaemia" Aceepted, **Elsevier Pub**.
- Pratap Kumar Sahu, Sweta Priyadarshini Pradhan and P. Sudhir Kumar "Isolation, elucidation, and structure-activity relationships of Phyto-alkaloids from *Solanaceae*" **Studies in Natural products Chemistry**, 2022,72, 372-389, **Elsevier Pub**.
- Suvadeep Mal, Udita Malik, Suman Das and Sudhir Kumar Paidesetty"Ceramide: Sphingolipidic second messenger of cancer"**Therapeutic Platform of Bioactivite lipids (Focus on cancer), Accepted ,** 2022, . (CRC Press, **Taylor & Francis Group**, USA).

Book Editor

- Jyotirmaya Sahoo, P.Sudhir Kumar "Pharmaceutics I Laboratoey Manual" ,B.Pharmacy-Ist Semester As per PCI Syllabus 1st edition 2023 ISBN-789357

Preprint

- CR Sahoo, SK Paidesetty, R Padhy"Newly Developed Semi-Synthetic Chloroquine and Hydroxychloroquine-Phytochemical Conjugates as Prospective COVID-19 Drug (s)" 2020, Repository : **ChemRxiv**
- Shasank Sekhar Swain, Sudhir Paidesetty, Rabindra Padhy" Chemical taxonomy, pharmacological actions and therapeutic suitability of isolated phyto-oils against pathogenic bacteria--A comprehensive review" 2020, **Authorea**

Phd Scholars Awarded

- Jyotirmaya Sahoo, PhD (Pharmacy) 2016; Awarded Thesis Title "Study on medicinal interest of synthesized azo based heterocyclic compounds" Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, Odisha, India
- Alok Singh Thakur, PhD (Pharmacy) 2017; Awarded Thesis Title "Synthesis and pharmacological evaluation of Hetrocyclic rings containing *N*-substituted sulfonylurea as Pharmacophore" Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, Odisha, India
- Priyambada Kshiroda Nandini Sarangi, PhD (Pharmacy) 2018; Awarded Thesis Title "Synthesis and biological evaluation of nitrogen bearing hetrocyclic molecules" Annamalai University , TN
- Shasank Sekar Swain, PhD (Biotechnology) 2019; Awarded Thesis Title "Computational and experimental evaluation of newly designed sulfonamide-

phytochemical conjugates as Prospective antibacterial drugs" Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar, Odisha, India

- Chitaranjan Sahoo, PhD (Biotechnology), 2021, Awarded Thesis Title " A comparative study on Phyco and phyto compound derivatives against UTI-bacteria and breast cancer" Siksha 'O' Anusandhan (Deemed to be University).
- Ajit Kumar Bishoyi, PhD (Biotechnology), 2023, Awarded Thesis Title " Biosynthesis, characterization, and biological activities of silver Nanoparticles with the Cyanobacterium Oscillatoria sp." Siksha 'O' Anusandhan (Deemed to be University).

Research Excellence Awards

- Received Award "Gandhian Young Technological Innovation (GYTI)-2019" for his contribution to Biotechnological/Medical Health innovation with the Title "Production of effective and low cost Dapsone-phytochemical hybrid candidate for use in Multidrug therapy against *Mycobacterium leprae*" received from Vice President of India at Rastrapati Bhawan, New Delhi, India
- Received Best Research Paper Award in Journal 'Indian Drugs' (IDA)2016 Title" Biological evaluation of novel a heteroaryl/arylazo 2-naphthol analogues and the transitional metal complexes derived from 4-((2-hydroxynaphthalen-1-yl)diazenyl)-1,5-dimethyl- 2-phenyl- 1H-pyrazole-3 (2*H*)-one" Indian Drugs, 53(6), 2016 & 15-24.
- Received Best Oral Presentation Award in National Seminar conducted by Jadavpur University, Kolkata on 30th-June- 1st -July-2023

Journal Reviewer

- Natural Products Research (NPR) (Taylor & Francis)
- Indian drugs (IDMA)
- Biomass Conversion and Biorefinery (BCAB) (Springer)
- Sensors and Actuators-A. Physical and Biorefinery (Springer)
- Chemistry Select (Wiley pub.)
- Scientific Reports (Springer Nature)
- Bioengineering Journal (MDPI)
- Molecules (MDPI)
- International Journal of Environmental Research and Public Health (MDPI)
- Chemical data collection (Elsevier)
- International Journal of Molecular Sciences (MDPI)
- Journal of Taibah University Medical sciences (Elsevier)

Achievements of Phd scholars under my Supervision

- Shasank Sekhar Swain (PhD Scholar): **Sun Pharma Science Foundation's Science Scholar Award** for the year 12th Feb. 2018 in the field of Pharmaceutical Sciences
- Shasank Sekhar Swain (PhD Scholar): Received Grant of **Young scientist scheme project from Department of Health Research** (DHR), Govt. of India, New Delhi (1st Feb. 2018 to 31st Apr. 2020), "Antimycobacterial evaluation …..TB drugs" R.12014/14/2017
- Chitaranjan Sahoo (PhD Scholar) : Received award of **Senior Research fellowship** (SRF) from ICMR on 5-1-2021 entitied as "Newly synthesized norharmane-phyco(algae) chemical conjugate as prospective Breast cancer (45/3/2020-DDI/BMS).
- Monalisa Mahapatra (PhD Scholar): Received award of **Senior Research fellowship** (ICMR-SRF) from ICMR on 29-3-2022 entitied as : Antimicrobial and anticancer assessment of Fluoroquinolone- phytochemical conjugates as a prospective broad-spectrum antibiotic"

Patent Details: Authors :Swain, S.S., Paidesetty, S.K., Padhy, R.N. Application No. 202011009326. Date of filing. 04/03/2020 Title of invention: A process for synthesis of potent and cost-effective anti-TB agents ; Publication : Published

Webinar Organised : Co-convenor in National Webinar on "Recent trends in algae and their utility of Pharmaceutical Sciences" at Central Research lab.IMS &SUM Hospital, SOA deemed to be University, Bhubaneswar, India

Faculty Development Programme (Refresher Course Attended)

1. Short Term Training Program (STTP) on "Clinical Trials: Procedures, Design and Interpretation of Results"23rd to 28th August 2021 Sponsored by AICTE Organized by School of Pharmaceutical Sciences
2. PCI Sponsored Continuing Education Programme (CEP) for Pharmacy Teachers held in School of Pharmaceutical Sciences, Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar.Duration: 3 days (from 18th -20th Sep 2018)
3. Faculty Development Programme (FDP) on Recent Advances in Pharmaceutical and Biotechnological Research held in School of Pharmaceutical Sciences, Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar.Duration: 2 days (from 18th -19th May 2012)
4. Staff Development Programme (SDP) on Derivatisation of Nanomaterials for drug delivery and Biomedical applications held in School of Pharmaceutical Sciences, Siksha 'O' Anusandhan (Deemed to be University), Bhubaneswar sponsored by AICTE.Duration: 2 weeks (from 12th -25th July 2011)

5. Induction Training Programme held in Sri Jayadev College of Pharmaceutical Sciences, Naharkanta, Bhubaneswar organized by Technical Teachers' Training Institute, Kolkota.Duration: 1 week (from 1st- 6th December 2003)
6. AICTE Sponsored Short term Programme For Pharmacy Teacher on "Emerging Areas in pharmaceutical sciences" held at Roland Institute of Pharmaceutical Sciences, Berhampur, Odisha, India date on 28-Dec'-2000 to 8th-Jan'- 2001(Two weeks)
7. UGC Refresher Course in Faculty of Pharmacy, Annamalai University (2002), Chidambaram TN. 15-Nov' 2002 to 05-Dec'2002. (Three Weeks).
8. ISTE-AICTE Short term Programmed, College of Pharmaceutical Sciences, Mohuda, Berhampur, Odisha, India. 4-17th-Mar' 2003 (Two Weeks).

Conferences Proceedings and Papers Presentation

1. Shasank K. Swain, Sudhir K. Paidesetty and Ravindra N. Padhy "Computational attempts for synthesis of noval conjugates bearing thymol with sulfur drugs derivatives and *in-vitro* antibacterial activities against MRSA" RDMBSBDD presented at IIT Guwahati, ASSAM,India on date 6-7th- Dec '2015
2. Sambit Kumar Prusty, Soumaya Ranjan Behera, Jyotirmaya Sahu and P.Sudhir Kumar" Synthesis and antibacterial evaluation of some novel 7-hydroxy 4-methyl coumarincongeners containing azo sulfonamide" presented in 67th-IPC held at Mysuru, JSS University on date 19-21 Dec'-2015.
3. Sushree Ranjita Parhi, Jigyansa Priyadhsini , Jyotirmaya Sahu and P.Sudhir Kumar"Antifungal evaluation of transitional metal complexes derived from 3-arylazo 4-hydroxy coumarin" presented in 67th-IPC held at Mysuru, JSS University on date 19-21 Dec'-2015.
4. Prabhat Kumar Behera, Ashish Kumar Mangaraj and P.Sudhir Kumar" Synthesis, characterization and *in-vitro* antimicrobial activity of some newly salicylialdehyde Congener" presented in KIIT University, Bhubaneswar, on date 9-11th- Dec'-2015 (Organized by ISCA odisha chapter).
5. P. Sudhir Kumar. G. Ghosh and J. Sahoo "Evaluation of *in-vitro* antimicrobial activity of some new synthesized 7-hydroxy 4-methyl coumarin analogues" organized by IndianSciences congress association (17th-Odisha Bhigyan sciences congress) held at ITER, Bhubaneswar, 5-6th-Dec' 2014
6. J. Sahoo and P. Sudhir Kumar "Synthesis and Biological evaluation of some novel Diazosulfonamide derivatives derived from 4-Hydroxy Coumarin"

National seminar on ”Recent advances in chemical research” held at Rajiv Gandhi Univerisity,Itanagar,India.Date 20-21 Mar' 2014.

7. Riti Pandey and P.Sudhir Kumar “Synthesis and evaluation of some novelBenzimidazole derivatives bearing azetidinone moiety as a potential antimicrobial activity”. Odisha pharmaceutical Conferences, School of Pharmaceutical sciences, SOA University, Bhubaneswar, Odisha. 24-Feb’-2013.
8. P. Sudhir Kumar and Arachana Kumari “Synthesis and antimicrobial evaluation of somenovel 5-azo thiobarbituric acid derivatives” paper presented in conference on “Advanced in pharmaceutical research” Indian association of pharmaceutical scientists and technologist (IAPST) organized by College of Pharmaceutical Sciences, Puri, Odisha on 12-13th-Apr’2013.
9. P. Sudhir Kumar and D. Paul “Synthesis and antimicrobial evaluation of some 3-arylazo substituted of 4-hydroxy coumarin” presented in 1st International Conferences on “Emerging trends in chemical and pharmaceutical sciences” Science-Tech Foundation (ICCP,JNTUA, Anantapur) College of Engineering, Anantapur, Andra Pradesh India date on 28 to 30 Jun 2013.
10. P.Sudhir Kumar and J. Sahoo “Evaluation of Antimicrobial activity of some newly synthesized Azo compounds derived from Thiobarbituric acid” Full length of paper Presented in 27th-Conference of Orissa chemical society and National seminar conference “Chemistry in the 21st-Century”organized by Modern institute of Engg.& management sciences at Balasore on date 14-15thDec’-2013 (Oral Paper Presentation) ISSN-2347-7601.
11. P.Sudhir Kumar and J. Sahoo “Synthesis and evaluation of some novel 4-hydroxy coumarin derivatives bearing azosulphonomide moiety as potential anthelmintic activity” presented in 65th-IPC held at New Delhi, Amity University on date 21-23rd Dec’-2013.
12. G.Ghosh, D. Das and P.Sudhir Kumar “Development of HPTLC method for standardization of marketed mother tinctures of TRIBULUS terrestris Linn.” AICTE Sponsored National seminar 2010 30th-31st Dec, 2010
13. P.Sudhir Kumar, S Biswal and Pratap Kumar Sahu “Anthelmintics activity of coumarinderivatives on *Pheritima posthuma”.* 10t^{h}-APTI Convention held at Department of Pharmaceutical Sciences, Nagpur, Oct’17-18th-2005.

Professional Contributions (Memberships)

Indian Hospital Pharmacists Association (IHPA) – 50244

Indian Pharmaceutical Association (IPA) - ORI/LM/0157 (2004)

Indian Society of Technical Education (ISTE) - ORI/ LM/ 43585 (2004)

Association of Pharmaceutical Teachers of India (APTI) - OR/LM-093(2004)

Indian Society of Pharmacognosy (ISP) - ISP/LM-OR/P-046 (2005)

Orissa State Board of Pharmacy (OSBP) -11293 (1998)

Orissa Chemical Society (OCS) – LM-OR/808 (2010)

Personal Details

Name of the Applicant: Prof (Dr). P. Sudhir Kumar

Father's Name: Retd. Er. Paidesetty Sreeram Murty

Date of Birth: 21st-Nov' 1974

Gender: Male

Marital Status: Married

Correspondence Address: Prof. (Dr.) P. Sudhir Kumar
School of Pharmaceutical Sciences,
Siksha 'O'Anusandhan University,
Bhubaneswar,Pin 751003,Odisha, India
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Permanent Address: Dr.P. Sudhir Kumar
S/o Er. Paidesetty Sreeram Murty
Door No- 401, 4th Floor,
Shuvam Residency, Phase-1, Patia
Bhubaneswar, India PIN-751024

Educational Qualifications: B.Sc, B.Pharm, M.Pharm & PhD (Pharmacy)

- PhD (Pharmacy) Awarded (2010) , Berhampur University, Odisha.
- M.Pharm (Pharmaceutical Chemistry) Passed in First Division (2001), Vel's College of Pharmacy, Dr. M.G.R. Medical University, Chennai, TN.
- All India GATE Qualified with 89.85 Percentile
- B.Pharm Passed in First Division (1998) , College of Pharmaceutical Sciences, Mohuda, Berhampur University, Odisha.India
- B.Sc (1993) From Khalikote College, Berhampur, Berhampur University, Odisha,India

Academic Experiences (22+ yrs)

- School of Pharmaceutical Sciences, Siksha'O'Anusandhan (Deemed to be University), Bhubaneswar, Orissa, India 24st-Jan'-2018 to continuing as Professor
- School of Pharmaceutical Sciences, Siksha'O'Anusandhan (Deemed to be University), Bhubaneswar, Orissa, India 1st-Sept'-2011 to 23rd-Jan'2018 as Associate Professor
- School of Pharmaceutical Sciences, Siksha'O'Anusandhan (Deemed to be University), Bhubaneswar, Orissa, India (5th-July-2008 to 31st-Aug'2011), Designation as Asst.Professor.
- Sri Jayadev college of Pharmaceutical Sciences Bhubaneswar, Orissa, India(1st-Apr' 2006 to 3rd-Jun'-2008), Designation as Senior Lecturer
- Sri Jayadev college of Pharmaceutical sciences, Bhubaneswar, Orissa, India (1st-July-2002 to 31st-Mar'2006), Designation as Lecturer
- Roland Institute of Pharmaceutical Sciences, Berhampur, Odisha, India (19-Feb'2001 to 30th-Jun'2002), Designation as Lecturer.

DECLARATION

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

Date Dr.P.Sudhir Kumar

Bhubaneswar Signature of Candidate

Respected sir,

After the successful completion of our research Lab at IBCS, I (Dr.P.Sudhir Kumar) am requesting you to give some essential items for carriing out the resaech work there. So kindly provide the following required items for smooth conduction of resarch

1. 3 NOS. OF COMPUTER SET (MONITOR, CPU, MOUSE, AND UPS) WITH ONE PRINTER

2. 6 NOS. OF PROPER SITTING CHAIRS

3. 01 DOUBLE DOOR FRIDGE

4. 01 IRON RACK

5. BLINDS FOR WINDOWS

6. WHITE MARKER BOARD (SMALL) & DUSTER