



**DR. REDDY'S
INSTITUTE OF LIFE SCIENCES**

YEAR-WISE LIST OF PUBLICATIONS 2007 - 2021

2021

1. Kumar JS, Reddy GS, Medishetti R, Ray A, Bele SD, Hossain KA, Thirupataiah B, Edwin RK, Behera P, Joseph A, Shenoy GG, Rao CM, Pal M (2021). Sonochemical synthesis of rosvastatin based novel 3-methyleneisindolin-1-one derivatives as potential anticancer agents. *Journal of Molecular Structure*, 1240, 130574.
2. Thirupataiah B, Mounika G, Reddy GS, Kumar JS, Hossain KA, Medisetti R, Samarpita S, Rasool M, Mudgal J, Mathew JE, Shenoy GG, Rao CM, Chatti K, Parsa KVL, Pal M (2021). PdCl₂-catalyzed synthesis of a new class of isocoumarin derivatives containing aminosulfonyl / aminocarboxamide moiety: First identification of a isocoumarin based PDE4 inhibitor. *European Journal of Chemistry*, <https://doi.org/10.1016/j.ejmech.2021.113514>.
3. Pal S, Pal M (2021). Anti-diabetes research in India: Contributions from industrial organizations. In: Dikshit M. (eds) *Drug Discovery and Drug Development*. Springer, Singapore. https://doi.org/10.1007/978-981-15-8002-4_8.
4. Prashanth Panta, Kiranam Chatti, Archana A (2021). Do saline water gargling and nasal irritation confer protection against COVID-19? *Explore*, 17 (2), 127-129.
5. Thirupataiah B, Guntipally Mounika, Gangireddy Sujeevan Reddy, Jetta Sandeep Kumar, Ravikumar Kapavarapu, Raghavender Medishetti, Jayesh Mudgal, Jessy E Mathew, Gautham G Shenoy, Mallikarjuna Rao C, Kiranam Chatti, Kishore VL Parsa, Manojit Pal (2021). CuCl₂-catalyzed inexpensive, faster and ligand/additive free synthesis of isoquinolin-1(2*H*)-one derivatives *via* the coupling–cyclization strategy: Evaluation of a new class of compounds as potential PDE4 inhibitors. *Bioorganic Chemistry*, 115, 105265.
6. Jagadeesh Kumar V, Sofia Banu, Mitnala Sasikala, Kishore VL Parsa, Divya Tej Sowpati, Rupali Yadav, Karthik Bharadwaj Tallapaka, Archana Bharadwaj Siva, Ravikanth Vishnubhotla, Rao GV, Duvvur Nageshwar Reddy (2021). Effectiveness of REGEN-COV antibody cocktail against the B.1.617.2 (delta)

variant of SARS-CoV-2: A cohort study. *Journal of Internal Medicine*, doi: 10.1111/joim.13408.

7. Thirupataiah B, Gangireddy Sujeevan Reddy, Gantipally Mounika, Jetta Sandeep Kumar, Kazi Amirul Hossain, Jayesh Mudgal, Jessy E. Mathew, Gautham G, Shenoy, Marina Rajadurai, Kishore VL Parsa, Manojit Pal (2021). Pd-catalysed general access to 7-membered N/O-heterocyclic compounds as potential agents against inflammation. *Chemical Communications*, 57, 10091-10094.
8. Vishnubhotla Ravikantha, Mitnala Sasikala, Vankadari Naveen, Sabbu Sai Latha, Kishore Venkata Laxmi Parsa, Ketavarapu Vijayasathy, Ramars Amanchy, Steffie Avanthi, Bale Govardhan, Kalapala Rakesh, Daram Sarala Kumari, Bojja Srikanan, Guduru Venkat Rao, Nageshwar Reddy (2021). A variant in *TMPRSS2* is associated with decreased disease severity in COVID-19. *Meta Gene*, 29, 100930.
9. Saxena Uday, Rajadurai Marina, Basaveni Surendar, Yellanki Swapna, Medishetti Raghavender, Sevilimedu Aarti, Kulkarni Pushkar (2021). Corrigendum to: Double PEGylation Significantly Improves Pharmacokinetic Properties of Irinotecan Containing Nanoparticles in a Zebrafish Model. *Current Nanomedicine*, 11 (2), 139.
10. Marina Rajadurai, Ramanjaneya Reddy E (2021). Tuning the sensitivity towards mercury via cooperative building to D-fructose: dual fluorescent chemosensor based on 1,8-naphthyridine-boronic acid derivative. *RSC Advances*, 11, 14862.
11. Gangireddy Sujeevan Reddy, Rajamanikkam Kamaraj, Kazi Amirul Hossain, Jetta Sandeep Kumar, Thirupataiah B, Raghavender Medishetti, Sushma Sri N, Parimal Misra, Manojit Pal (2021). Amberlyst-15 catalysed synthesis of novel indole derivatives under ultrasound irradiation: Their evaluation as serotonin 5-HT_{2C} receptor agonists. *Bioorganic Chemistry*, 116, 105380.
12. Misra P, Chakrabarti R (2021) Type 2 Diabetes Mellitus: Marketed Drugs and Mechanisms. In: Dikshit M. (eds) *Drug Discovery and Drug Development*. Springer, Singapore. https://doi.org/10.1007/978-981-15-8002-4_7.
13. Misra P, Chakrabarti R (2021). Introduction to diabetes and prevalence in India. In: Dikshit M. (eds) *Drug Discovery and Drug Development*. Springer, Singapore. https://doi.org/10.1007/978-981-15-8002-4_6.
14. Reddy GS, Kumar JS, Thirupataiah B, Hossain KA, Nallapati SB, Giliyaru VB, Hariharapura RC, Shenoy GG and Pal M (2021). Propargylamines in Pd/Cu-catalyzed tandem coupling-cyclization-N-deprotection in a single pot: Construction of N-unsubstituted vs N-sulfonyl indole ring. *Tetrahedron Letters*, 77, 153213 <https://doi.org/10.1016/j.tetlet.2021.153213>.

15. Shukla CA, Udaykumar B, Saisivanarayana Y et al. Delineating a green, catalyst free synthesis of a popular nutraceutical methylsulfonylmethane (MSM) in continuous flow (2021). *Journal of Flow Chemistry*, 12, 1–7. DOI: <https://doi.org/10.1007/s41981-021-00186-x>.

2020

1. Thirupataiah B, Reddy GS, Ghule SS, Kumar JS, Mounika G, Hossain KAI, Mudgal J, Mathew JE, Shenoy GG, Parsa KVL, Pal M (2020). Synthesis of 11,12-dihydro benzo[c]phenanthridines via a Pd-catalyzed unusual construction of isocoumarin ring / FeCl₃-mediated intramolecular arene-allyl cyclization: first identification of a benzo[c]phenanthridine based PDE4 inhibitor. *Bioorganic Chemistry*, 97, 103691.
2. Jetta Sandeep Kumar, Thirupataiah B, Raghavender Medishetti, Aramita Ray, Shilpak Dilip Bele, Kazi Amirul Hossain, Gangireddy Sujeevan Reddy, Rebecca Kristina Edwin, Alex Joseph, Nitesh Kumar, Gautham G Shenoy, Mallikarjuna Rao C, Manojit Pal (2020). Rosuvastatin based novel 3-substituted isocoumarins / 3-alkylidenephthalides: Ultrasound assisted synthesis and identification of new anticancer agents. *European Journal of Medicinal Chemistry*, 201, 112335.
3. Gangireddy Sujeevan Reddy, Kazi Amirul Hossain, Jetta Sandeep Kumar, Thirupataiah B, Rebecca Kristina Edwin, Varadaraj Bhat Giliyaru, Raghu Chandrashekhar Hariharapura, Gautham Shenoy G, Parimal Misra, Manojit Pal (2020). Novel isatin-indole derivatives as potential inhibitors of chorismate mutase (CM): their synthesis along with unexpected formation of 2-indolylmethylamino benzoate ester under Pd-Cu catalysis. *RSC Advances* 10, 289, doi: 10.1039/c9ra09236f.
4. Gangireddy Sujeevan Reddy and Manojit Pal (2020). Indole derivatives as anti-tubercular agents: An overview on their synthesis and biological activities. *Current Medicinal Chemistry*, 27, 1-38.
5. Medishetti R, Rani R, Kavati S, Mahilkar A, Akella V, Saxena U, Kulkarni P*, Sevilimedu A* (2020). A DNase based knockdown model for Fragile-X syndrome in zebrafish reveals a critical window for therapeutic intervention. *Journal of Pharmacological and Toxicological Methods*, 101, 106656. doi: 10.1016/j.vascn.2019.106656.
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7. Prasenjit Mitra (2020). Inhibiting fusion with cellular membrane system: therapeutic options to prevent severe acute respiratory syndrome coronavirus - 2 infection. *American Journal of Physiology-Cell Physiology*, 319, C500. doi:10.1152/ajpcell.00260.2020.

8. Shilpak Bele, Shravan Babu Girada, Aramita Ray, Abhishek Gupta, Srinivas Oruganti, Phanithi Prakash Babu, Rahul SR Rayalla, Shashi Vardhan Kalivendi, Ahamed Ibrahim, Vishwajeet Puri, Venkateswar Adalla, Madhumohan R Katika, Richard DiMarchi, Prasenjit Mitra (2020). MS-275, a class 1 histone deacetylase inhibitor augments glucagon-like peptide-1 receptor agonism to improve glycemic control and reduce obesity in diet-induced obese mice. *eLife* 2020;9:e52212 doi: 10.7554/eLife.52212.
9. Kavitha Agastheeswaramoorthy, Aarti Sevilimedu (2020). Drug REpurposing using AI/ML tools - for Rare Diseases (DREAM-RD): A case study with Fragile X Syndrome (FXS). *bioRxiv* 2020.09.25.311142; doi: <https://doi.org/10.1101/2020>.

2019

1. Foster SD, Glover SR, Turner AN, Chatti K, Challa AK (2019). A mixing heteroduplex mobility assay (mHMA) to genotype homozygous mutants with small indels generated by CRISPR-Cas9 nucleases. *MethodsX*, 6, 1-5.
2. Kulkarni P, Saxena U. Treatment Paradigms in Huntington's Disease (Book Chapter). In *Pathology, Prevention and Therapeutics of Neurodegenerative Disease*. Sarika Singh and Neeraj Joshi (Eds). pp 191-196.
3. Rani R, Yaseen AM, Malwade A, Sevilimedu A (2019). An RNA aptamer to HP1/Swi6 facilitates heterochromatin formation at an ectopic locus in *S.pombe*. *RNA Biology, RNA BIOLOGY* <https://doi.org/10.1080/15476286.2019.1584026>.
4. Saxena U, Rajadurai M, Basaveni S, Yellanki S, Medishetti R, Sevilimedu A, Kulkarni P (2019). Double PEGylation significantly improves pharmacokinetic properties of irinotecan containing nanoparticles in a zebrafish model. Accepted. *Current Nanomedicine*, 2019.
5. Singh S, Samineni R, Pabbaraja S, Mehta GA (2019). General carbazole synthesis via stitching of indole-ynones with nitromethanes: Application to total synthesis of carbazomycin A, calothrixin B and staurosporinone. *Organic Letters*, 21, 3372-3376.
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7. Reddy GS, Snehalatha AV, Edwin RK, Hossain KA, Giliyaru VB, Hariharapura RC, Shenoy GG, Misra P, Pal M (2019). Synthesis of 3-indolylmethyl substituted (pyrazolo/benzo)triazinone derivatives under Pd/Cu-catalysis:

Identification of potent inhibitors of chorismate mutase (CM). *Bioorganic Chemistry*, 91, 103155, DOI: <https://doi.org/10.1016/j.bioorg.2019.103155>.

8. Rajnikanth Sunke, Ramudu Bankala, Thirupataiah B, Shivaji Ramarao EVV, Sandeep Jetta, Hari Maduri Doss, Raghavender Medishetti, Pushkar Kulkarni, Ravi Kumar Kapavarapu, Mahaboobkhan Rasool, Jayesh Mudgal, Jessy E. Mathew, Gautham G. Shenoy, Kishore VL Parsa, Pal M (2019). InCl₃ mediated heteroarylation of indoles and their derivatization via C-H activation strategy: Discovery of 2-(1H-indol-3-yl)-quinoxaline derivatives as a new class of PDE4B selective inhibitors for arthritis and/or multiple sclerosis. *European Journal of Medicinal Chemistry*, 174, 198-215, DOI: <https://doi.org/10.1016/j.ejmech.2019.04.020>.
9. Seshadri S, Rapaka N, Prajapati B, Mandaliya D, Patel S, Muggalla CS, Kapadia B, Babu PP, Misra P*, Saxena U* (2019). Statins exacerbate glucose intolerance and hyperglycemia in a high sucrose fed rodent model. *Scientific Reports*, 9 (1), 8825. doi: 10.1038/s41598-019-45369-8.
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2018

1. Krishna S, Chatti K, Galigekere RR (2018). Automatic and robust estimation of heart rate in zebrafish Larvae. *IEEE Transactions on Automation Science and Engineering*, 15 (3), 1041-1052.
2. Bung N, Surepalli S, Seshadri S, Patel S, Peddasomayajula S, Kummari LK, Kumar ST, Babu PP, Parsa KVL, Poondra RR, Bulusu G, Misra P (2018). 2-[2-(4-(trifluoromethyl) phenylamino) thiazol-4-yl] acetic acid (activator-3) is a potent activator of AMPK, *Scientific reports*, 8, 9599.
3. Behera S, Kapadia B, Kain V, Alamuru-Yellapragada NP, Murunikkara V, Kumar ST, Babu PP, Seshadri S, Shivarudraiah P, Hiriyan J, Gangula NR, Maddika S, Misra P, Parsa KVL (2018). ERK1/2 activated PHLPP1 induces skeletal muscle ER stress through the inhibition of a novel substrate AMPK. *Biochimica et Biophysica Acta*, 1864, 1702-1716.
4. Kulkarni P, Rajadurai M, Sevilimedu A, Basaveni S, Yellanki S, Medishetti R, Saxena U (2018). Magnetic nanoparticle formulation for targeted delivery of chemotherapeutic irinotecan to lungs. *Drug Delivery and Translational Research*, 8, 1450-1459.
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properties of irinotecan containing nanoparticles in a zebrafish model. *Current Nanomedicine*, 8, 1-9.

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7. Mallikarjuna Rao V, Srinivasa Rao A, Ravi Kumar P, Shobha Rani S, Pal M (2018). 2-Amino analogues of alkynyl substituted 1,4-dihydropyrimidine: Their synthesis and evaluation as potential antimicrobial / cytotoxic agents. *Letters in Drug Design and Discovery*, 15, 1095-1102.
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10. Marepu N, Yeturu S, Pal M (2018). 1,2,3-Triazole fused with pyridine / pyrimidine as new template for antimicrobial agents: Regioselective synthesis and identification of potent N-heteroarenes. *Bioorganic and Medicinal Chemistry Letters*, 28, 3302-3306.
11. Reddy GS, Nallapati SB, Saranya PSVKS, Sridhar B, Bhat V, Hariharapura G RC, Shenoy GG, Pal M (2018). Propargylamine (secondary) as a building block in indole synthesis involving ultrasound assisted Pd/Cu-catalyzed coupling-cyclization method: Unexpected formation of (pyrazole)imine derivatives. *Tetrahedron Letters*, 59, 4587-4592.
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1. Reddy ER, Yaseen AM, Rizvi A, Deora GS, Banerjee S, Sevilimedu A, Rajadurai M (2017). Antibacterial Nanoparticles Based on Fluorescent 3-Substituted Uridine Analogue. *ChemistrySelect*, 2, 557-561.
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2016

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3. Bobesh KA, Renuka J, Srilakshmi RR, Yellanki S, Kulkarni P, Yogeeswari P, Sriram D (2016). Replacement of cardiotoxicaminopiperidine linker with piperazine moiety reduces cardiotoxicity? Mycobacterium tuberculosis novel bacterial topoisomerase inhibitors. *Bioorganic and Medicinal Chemistry*, 24, 42-52.
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2015

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