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Area Of Research: Eicosanoids, Inflammation and Cancer

Faculty Details

Inflammation is a necessary response of the host to injury/infection so as to restore the tissue to its normal function. However, sometimes this process goes awry and the tissue fails to resolve but leads to onset of chronic inflammatory diseases such as allergy, asthma, autoimmune diseases, rheumatoid arthritis, prostatitis, nephritis, mastitis and even in cancer.

Eicosanoids, the oxygenated metabolites of arachidonic acid formed via the cyclooxygenase (COX) and lipoxygenase (LOX) pathways are known to be important regulators of both the onset and resolution of inflammatory processes. The main focus of our group is to understand the eicosanoid signaling pathways that are involved in the resolution of inflammation on one side and the onset of various inflammatory disorders on the other.

Notice Board

No Records Available

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Publications

267 Wolff, Christopher., Zoschke, Christian., Kalangi, Suresh Kumar., Reddanna, Pallu., Schäfer-Korting, Monika., (2019) , Tumor microenvironment determines drug efficacy in vitro-apoptotic and anti-inflammatory effects of 15-lipoxygenase metabolite, 13-HpOTrE , European Journal of Pharmaceutics and Biopharmaceutics, Elsevier,,,

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Patents

Patent No/Application No	Patent Title	Authors	Applied Year	Granting Year
201941024295	Heterocyclic compounds as lipoxygenase inhibitors.	5. Reddanna P, Kumar Reddy, K, Nooruddin Khan, Harshavardhan, DB, Manojit Paul.	2019	IN-PROCESS
17/CHE/2007	A Development of concrete admixtures with organic components of plants and animal origin	Ramesh Reddy P Reddanna and RRV Reddy	2007	2007
4651/CHE/2011	Butyl gallate, a COX 2/5-LOX dual inhibitor	TCM Reddy, P Reddanna		2011 IN-PROCESS
3500/CHE/2011	Enhanced sensitivity of bacteria to antibiotics by Cyclooxygenase-2 (COX-2) inhibitors	MK Arunasree, P Reddanna	2011	IN-PROCESS

Projects

Title	Year	Duration	Amount(In Lakhs)	PI/I
Basic Science Research Faculty Fellowship	2019	5	330000000000	PI
Development of 12-LOX specific scoring function and Pharmacophore model: Design and biological evaluation of novel natural product derived inhibitors	2018	3	630000000000	PI
12R-Lipoxygenase as a Target for Development of Drugs against Psoriasis	2017	3	1360000000000	PI
Establishment of BioNEST incubation center	2017	5	500000000000	PI