

Faculty Details

Name: Dr. Roy Karnati

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Contact:

Area Of Research: Cellular homeostasis, Inflammation and Tumorigenesis

Faculty Details

No Records Available

Notice Board

No Records Available

Students And Project Trainees

Students/Projects Trainees

Name	Joined As	Mail	Contact
Mr. Jitesh Gupta	Graduate Student	---	---
Mr. Ravi Ranjan	Graduate Student	---	---

Publications

27 Karnati, Roy., Talla, Venu., Peterson, Katherine., Laurie, Gordon W., (2016) , Lacritin and other autophagy associated proteins in ocular surface health , Experimental eye research, Academic Press,144,,4-13.

26 Kumar, Naresh., Gupta, Geetika., Anilkumar, Kotha., Fatima, Naireen., Karnati, Roy., Reddy, Gorla Venkateswara., Giri, Priyanka Voori., Reddanna, Pallu., (2016) , 15-Lipoxygenase metabolites of α -linolenic acid,[13-(S)-HPOTrE and 13-(S)-HOTrE], mediate anti-inflammatory effects by inactivating NLRP3 inflammasome , Scientific reports, Nature Publishing Group,6,,31649.

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- 19 Kashyap, Arun K., Reddy, Nimmanapalli P., Karnati, Roy., (2013) , Ethyl acetate extract of *Hemigraphis colorata* leaves shows anti-inflammatory and wound healing properties and inhibits 5-lipoxygenase and cyclooxygenase-1 and 2 enzymes , Journal of Medicinal Plants Research, Academic Journals,7,37,2783-2791.
- 18 Sinha, Sutapa., Roy, Sayantani., Reddy, Bathula Surendar., Pal, Krishnendu., Sudhakar, Godeshala., Iyer, Seethalakshmi., Dutta, Shamit., Wang, Enfeng., Vohra, Pawan Kumar., Roy, Karnati Rammohan., (2011) , A lipid-modified estrogen derivative that treats breast cancer independent of estrogen receptor expression through simultaneous induction of autophagy and apoptosis , Molecular cancer research, American Association for Cancer Research,9,3,364-374.
- 17 Roy, Karnati R., Reddy, Gorla V., Maitreyi, Leela., Agarwal, Smita., Achari, Chandrani., Vali, Shireen., Reddanna, Pallu., (2010) , Celecoxib inhibits MDR1 expression through COX-2-dependent mechanism in human hepatocellular carcinoma (HepG2) cell line , Cancer chemotherapy and pharmacology, Springer-Verlag,65,5,903-911.
- 16 Nishanth, Reddy P., Ramakrishna, BS., Jyotsna, Radhika G., Roy, Karnati R., Reddy, Gorla V., Reddy, Pratap K., Reddanna, Pallu., (2010) , C-Phycocyanin inhibits MDR1 through reactive oxygen species and cyclooxygenase-2 mediated pathways in human hepatocellular carcinoma cell line , European journal of pharmacology, Elsevier,649,1-3,74-83.
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- 7 Roy, Karnati R., Arunasree, Kalle M., Reddy, Nishant P., Dheeraj, Bhavanasi., Reddy, Gorla Venkateswara., Reddanna, Pallu., (2007) , Alteration of mitochondrial membrane potential by *Spirulina platensis* C-phycocyanin induces apoptosis in the doxorubicinresistant human hepatocellular-carcinoma cell line HepG2 , *Biotechnology and applied biochemistry*, Blackwell Publishing Ltd Oxford, UK,47,3,159-167.
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Projects

Title	Year	Duration	Amount(In Lakhs)	PI/I
Elucidating the role of tyrosine phosphorylated proteins activated by lacritin in corneal epithelium	2018	2	100000000000	Roy Karnati
Understand the regulation of lacritin expression during infection and characterize molecular pathways induced by lacritin in corneal epithelium	2018	2	350000000000	Roy Karnati
Development of 5-LOX specific scoring function and application of fragment based free energy methods for the development of novel anti-cancer drug candidates	2018	3	750000000000	Roy Karnati
Characterization of corneal cell death during infection; Regulation and cytoprotective role of lacritin, an eye specific protein	2012	3	300000000000	Roy Karnati