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Publications

PUBLICATIONS

- **Acoustomechanically activatable liposomes for ultrasonic drug uncaging.** *bioRxiv : the preprint server for biology*
Purohit, M. P., Roy, K. S., Xiang, Y., Yu, B. J., Azadian, M. M., Muwanga, G., Hart, A. R., Taoube, A. K., Lopez, D. G., Airan, R. D.
2023
- **Heparin Biofunctionalized Selenium Nanoparticles as Potential Antiangiogenic-Chemotherapeutic Agents for Targeted Doxorubicin Delivery** *ACS APPLIED MATERIALS & INTERFACES*
Purohit, M. P., Kar, A. K., Kumari, M., Ghosh, D., Patnaik, S.
2023: 19904-19920
- **Inhibition of Thioredoxin Reductase by Targeted Selenopolymeric Nanocarriers Synergizes the Therapeutic Efficacy of Doxorubicin in MCF7 Human Breast Cancer Cells.** *ACS applied materials & interfaces*
Purohit, M. P., Verma, N. K., Kar, A. K., Singh, A., Ghosh, D., Patnaik, S.
2017; 9 (42): 36493-36512
- **SELECTIVELY ACTIVATING THE AFFECTIVE EFFICACY OF KETAMINE VIA REGIONALLY-TARGETED NONINVASIVE ULTRASONIC DRUG UNCAGING**
Yu, B., Roy, K., Ewbank, S., Purohit, M., Azadian, M., Xiang, Y., Wang, J., Airan, R.
SPRINGER NATURE.2024: 411-412
- **Pharmacokinetics-Pharmacodynamics Dissociation Indicative of Ketamine-Induced Plasticity as Revealed by Ultrasonic Ketamine Uncaging in Rat Medial Prefrontal Cortex**
Yu, B., Roy, K., Purohit, M., Xiang, Y., Azadian, M., Taoube, A., Kwan, A., Lopez, D., Airan, R.
SPRINGER NATURE.2023: 277-278
- **Using Passively Detected Acoustic Signals to Characterize Ultrasound Gated Nanoparticles**
Singh, A., Xiang, Y., Sigona, M., Purohit, M., Hart, A., Hosseini-Nassab, N., Airan, R., Caskey, C., IEEE
IEEE.2021
- **Advances in controlled release pesticide formulations: Prospects to safer integrated pest management and sustainable agriculture.** *Journal of hazardous materials*
Singh, A., Dhiman, N., Kar, A. K., Singh, D., Purohit, M. P., Ghosh, D., Patnaik, S.
2020; 385: 121525
- **Polymer-Assisted In Situ Synthesis of Silver Nanoparticles with Epigallocatechin Gallate (EGCG) Impregnated Wound Patch Potentiate Controlled Inflammatory Responses for Brisk Wound Healing.** *International journal of nanomedicine*
Kar, A. K., Singh, A., Dhiman, N., Purohit, M. P., Jagdale, P., Kamthan, M., Singh, D., Kumar, M., Ghosh, D., Patnaik, S.
2019; 14: 9837-9854
- **Pro-inflammatory macrophage polarization enhances the anti-cancer efficacy of self-assembled galactomannan nanoparticles entrapped with hydrazinocurcumin.** *Drug delivery and translational research*
Kumari, M., Purohit, M. P., Pahuja, R., Patnaik, S., Shukla, Y., Kumar, P., Gupta, K. C.
2019; 9 (6): 1159-1188
- **Accelerated and scarless wound repair by a multicomponent hydrogel through simultaneous activation of multiple pathways.** *Drug delivery and translational research*
Bhattacharya, D., Tiwari, R., Bhatia, T., Purohit, M. P., Pal, A., Jagdale, P., Mudiam, M. K., Chaudhari, B. P., Shukla, Y., Ansari, K. M., Kumar, A., Kumar, P., Srivastava, et al

2019; 9 (6): 1143-1158

- **Curcumin loaded selenium nanoparticles synergize the anticancer potential of doxorubicin contained in self-assembled, cell receptor targeted nanoparticles.** *European journal of pharmaceutics and biopharmaceutics : official journal of Arbeitsgemeinschaft fur Pharmazeutische Verfahrenstechnik e.V*
Kumari, M., Purohit, M. P., Patnaik, S., Shukla, Y., Kumar, P., Gupta, K. C.
2018; 130: 185-199
- **Zinc Oxide Nanoparticle Induces Microglial Death by NADPH-Oxidase-Independent Reactive Oxygen Species as well as Energy Depletion.** *Molecular neurobiology*
Sharma, A. K., Singh, V., Gera, R., Purohit, M. P., Ghosh, D.
2017; 54 (8): 6273-6286
- **Fluorometric Estimation of Glutathione in Cultured Microglial Cell Lysate.** *Bio-protocol*
Singh, V., Gera, R., Prasad Purohit, M., Patnaik, S., Ghosh, D.
2017; 7 (11): e2304
- **Targeted Smart pH and Thermo-responsive N,O-Carboxymethyl Chitosan Conjugated Nanogels for Enhanced Therapeutic Efficacy of Doxorubicin in MCF-7 Breast Cancer Cells.** *Bioconjugate chemistry*
Verma, N. K., Purohit, M. P., Equbal, D., Dhiman, N., Singh, A., Kar, A. K., Shankar, J., Tehlan, S., Patnaik, S.
2016; 27 (11): 2605-2619
- **General Reagent Free Route to pH Responsive Polyacryloyl Hydrazide Capped Metal Nanogels for Synergistic Anticancer Therapeutics.** *ACS applied materials & interfaces*
Ujjwal, R. R., Purohit, M. P., Patnaik, S., Ojha, U.
2015; 7 (21): 11497-507