|  |
| --- |
| **2020** |
| 1. A simple naphthalimide based PET probe for Fe3+ and selective detection of pyrophosphate through displacement approach: Cell imaging studies and logic interpretation. Dwivedi SK, Ali R, Singh M, Gupta T, Kar AK, Prakash V, Sadasivam A, **Patnaik S**, Misra A\*, **Journal of Photochemistry and Photobiology A: Chemistry** (**2020**), 403, 112854. [DOI.org/10.1016/j.jphotochem.2020.112854](https://doi.org/10.1016/j.jphotochem.2020.112854)
 |
| 1. Rhamnolipids from Planococcus spp. and their mechanism of action against pathogenic bacteria. Gaur VK, Tripathi P, Gupta P, Dhiman N, Regar RK, Gautam K, Srivastava JK, **Patnaik S**, Patel DK, Manickam N\*, **Bioresource Technology** (**2020**), 307, 123206. [DOI.10.1016/j.biortech.2020.123206](https://www.ncbi.nlm.nih.gov/pubmed/32240926)
 |
| **2019** |
| 1. Polymer assisted in situ synthesis of silver nanoparticles with epigallocatechin gallate (EGCG) impregnated wound patch potentiate controlled inflammatory responses for brisk wound healing. Kar AK, Singh A, Dhiman N, Purohit MP, Jagdale P, Kamthan M, Singh D, Kumar M, Ghosh D, **Patnaik S\***, **International Journal of Nanomedicine** (**2019**), 14, 9837-9854. [DOI.org/10.2147/IJN.S228462](https://www.dovepress.com/polymer-assisted-in-situ-synthesis-of-silver-nanoparticles-with-epigal-peer-reviewed-article-IJN)
 |
| 1. Advances in Controlled Release Pesticide Formulations: Prospects to Safer Integrated Pest Management and Sustainable Agriculture. Singh A, Dhiman N, Kar AK, Singh, D, Purohit MP, Ghosh D, **Patnaik S\***, **Journal of Hazardous Materials** (**2019**), 385, 121525. [DOI.org/10.1016/j.jhazmat.2019.121525](https://doi.org/10.1016/j.jhazmat.2019.121525)
 |
| 1. Pro-inflammatory macrophage polarization enhances the anticancer efficacy of hydrazinocurcumin contained self-assembled galactomannan nanoparticles. Kumari M, Purohit M, Pahuja R, **Patnaik S**, Shukla Y, Kumar P, Gupta KC\*, **Drug Delivery and Translational Research** (**2019**), 9, 1159-1188. DOi.org/10.1007/s13346-019-00661-y
 |
| 1. Biosynthesis and characterization of sophorolipid biosurfactant by Candida species: Application as food emulsifier and antibacterial agent. Gaur VK, Dhiman N, Gautam K, Regar RK, Srivastava JK, **Patnaik S**, Kamthan M, Manickam N\*, **Bioresource Technology** (**2019**), 285, 121314. DOI.org/10.1016/j.biortech.2019.121314
 |
| 1. Zinc oxide nanoparticles attenuate hepatic steatosis development in high-fat-diet fed mice through activated AMPK signaling axis. Dogra S, Kar AK, Girdhar K, Daniel PV, Chatterjee S, Choubey A, Ghosh S, **Patnaik S**, Ghosh D, Mondal P\*, **Nanomedicine: Nanotechnology, Biology, and Medicine** (**2019**), 17, 210-222. DOI.org/10.1016/j.nano.2019.01.013
 |
| 1. Sub-acute oral exposure to zinc oxide nanoparticles causes alteration in iron homeostasis through acute phase response: a protective effect by surface modification. Srivastav AK, Dhiman N, Tiwari R, Arjaria N, Prakash J, Jagdale P, Anyur A, Singh D, **Patnaik S**, Kumar M\*, **Journal of Trace Elements in Medicine and Biology** (**2019**), 52, 270-287. DOI.org/10.1016/j.jtemb.2019.01.008
 |
| 1. Impact of surface engineered ZnO nanoparticles on protein corona configuration and their interactions with biological system. Srivastav AK, Dhiman N, Khan H, Prakash J, Arjaria N, Singh D, Patnaik S, and Kumar M\*, **Journal of Pharmaceutical Sciences** (**2019**), 108, 1872-1889. DOI.org/10.1016/j.xphs.2018.12.021
 |
| **2018** |
| 1. Curcumin loaded selenium nanoparticles synergize the anticancer potential of doxorubicin contained in self-assembled, cell receptor targeted nanoparticles. Kumari M, Purohit M, **Patnaik S**, Shukla Y, Kumar P, Gupta KC\*, **Eur. J. Pharm. Biopharm** (**2018**) 130. 185-199. DOI.org/10.1016/j.ejpb.2018.06.030
 |
| 1. Sneaky entry of IFNγ through arsenic-induced leaky blood-brain barrier reduces CD200 expression by microglial pro-inflammatory cytokine. Singh V, Kushwaha S, Gera R, Ansari JA, Dewangan J, Mishra J, **Patnaik S**, Ghosh D\*, **Molecular Neurobiology** (**2018**), 56, 1488-1499. DOI:10.1007/s12035-018-1155-0
 |
| 1. DNA Base Sequence Effects on Bulky Lesion-Induced Conformational Heterogeneity during DNA Replication. Cai A, Wilson KA, **Patnaik S**, Wetmore SD, Cho BP\*, **Nucleic Acids Res**, (**2018**), 466356-466370. DOI:10.1093/nar/gky409
 |
| 1. Comprehensive Remediate Study of Disperse Dyes Containing Wastewater Using Environmental Benign, Low Cost Cenospheres Nanosyntactic Foam. Tiwari M, Dhiman N, Shukla SP, Mohan D, Kisku GC and **Patnaik S**\*, **Journal of Cleaner Production** (**2018**), 182, 206-216. DOI:10.1016/j.jclepro.2018.01.244
 |
| **2017** |
| 1. Arsenic exposure impels CD4 commitment in thymus and suppresses T cell cytokine secretion by increasing regulatory T cells. Gera R, Singh V, Mitra S, Sharma A, Singh A, Dasgupta A, Singh D, Kumar M, Jagdale P, **Patnaik S**, and Ghosh D\*, **Scientific Reports** (**2017**), 7, 7140. DOI:10.1038/S41598-017-07271-Z
 |
| 1. Predictive Modeling and Validation of Arsenite Removal by One pot Synthesized Bioceramic Buttressed Manganese Doped Iron oxide Nanoplatform. Dhiman N, Tiwari M, Fatima F, Saxsena PN, Roy S, Rout PK and **Patnaik S**\*, **RSC Advances** (**2017**), 7, 32866-32876, DOI:10.1039/C7RA03736H
 |
| 1. Inhibition of Thioredoxin Reductase by Targeted Selenopolymeric Nanocarriers Synergizes the Therapeutic Efficacy of Doxorubicin in MCF7 Human Breast Cancer Cells. Purohit MP, Verma NK, Kar AK, Singh A, Ghosh D and **Patnaik S\***, **ACS Appl Mater Interfaces** (**2017**), 9, 36493-36512. DOI:10.1021/acsami.7b07056
 |
| 1. Fluorimetric Estimation of Glutathione in Cultured Microglial Cell Lysate. Singh V, Gera R, Purohit MP, **Patnaik S** and Ghosh D\*, **Bio-protocol**, (**2017**), 7, 11 (e2304). DOI:10.21769/BioProtoc.2304
 |
| 1. Curcumin-loading potentiates the chemotherapeutic efficacy of selenium nanoparticles in HCT116 cells and Ehrlich’s ascites carcinoma bearing mice. Kumari M, Ray L, Purohit MP, **Patnaik S**, Pant AB, Shukla Y, Kumar P and Gupta KC\*, **Eur J Pharm Biopharm**, (**2017**), 117, 346-362. DOI:10.1016/j.ejpb.2017.05.003
 |
| 1. Statistical Optimization and Artificial Neural Network Modeling for Acridine Orange Dye Degradation Using In-situ Synthesized Polymer Capped ZnO Nanoparticles. Dhiman N, Markandeya, Singh A, Verma NK, Ajaria N and **Patnaik S\***, **Journal of Colloid and Interface Science**, (**2017**), 493, 295-306. DOI:10.1016/j.jcis.2017.01.042
 |
| **2016** |
| 1. Targeted Smart pH and Thermoresponsive N,O-Carboxymethyl Chitosan Conjugated Nanogels for Enhanced Therapeutic Efficacy of Doxorubicin in MCF-7 Breast Cancer Cells. Verma NK, Purohit MP, Equbal D, Dhiman N, Singh A, Kar AK, Shankar Jai, Tehlan S and **Patnaik S\***, **Bioconjugate Chemistry**, (**2016**), 27, 2605-2619. DOI:10.1021/acs.bioconjchem.6b00366
 |
| 1. Hijacking microglial glutathione by inorganic arsenic impels bystander death of immature neurons through extracellular cystine/glutamate imbalance Singh V, Gera R, Kushwaha R, Sharma AK, **Patnaik S**, Ghosh D\*, **Scientific Reports**, (**2016**), 6, 30601. DOI:10.1038/srep30601
 |
| 1. Antimicrobial assay and genetic screening of selected fresh water cyanobacteria and identification of a biomolecule dihydro-2H-pyran-2-one derivative Srivastava A, Singh V, Patnaik S, Tripathi J, Nath G, Asthana R\*, **J. Appl. Microbiology,** (**2016**), 122, 881. DOI: 10.1111/jam.13385
 |
| **2015** |
| 1. A General Reagent Free Route to pH Responsive Polyacryloyl Hydrazide Capped Metal Nanogels for Synergistic Anticancer Therapeutics Ujjwal RR, Purohit MP, **Patnaik S\***, Ojha U\*, **ACS Appl Mater Interfaces**, (**2015**) 7, 11497. DOI:[10.1021/acsami.5b02452](http://pubs.acs.org/doi/abs/10.1021/acsami.5b02452)
 |
| 1. Occupational health hazards of trichloroethylene among workers in relation to altered mRNA expression of cell cycle regulating genes (p53, p21, bax and bcl-2) and PPARA. Varshney M, Chandra A, Jain R, Ahmad R, Bihari V, Chandran KC, Mudiam MKR, **Patnaik S**, Goel SK\*. **Toxicology Reports**, (**2015**), 2, 748. DOI:10.1016/j.toxrep.2015.04.002
 |
| 1. Highly sensitive cell imaging “Off-On” fluorescent probe for mitochondria and ATP. Srivastava P, Razia SS, Ali R, Srivastav S, **Patnaik S**, Saripella S, Misra A\*. **Biosensors and Bioelectronics**, (**2015**), 69, 179. DOI:10.1016/j.bios.2015.02.028
 |
| **2014** |
| 1. Conformational Insights into the Lesion and Sequence Effects for Arylamine-Induced Translesion DNA Synthesis: 19F NMR, Surface Plasmon Resonance, and Primer Kinetic Studies. Jain V, Vaidyanathan G, **Patnaik S**, Gopal S, and Cho BP\*. **Biochemistry**, (**2014**), 53, 4059. DOI:10.1021/bi5003212
 |
| **2013** |
| 1. A simple blue fluorescent probe to detect Hg2+ in semi aqueous environment by intramolecular charge transfer mechanism. Srivastava P, Alia R, Razia SS, Shahid M, **Patnaik S**, Misra A\*. **Tetrahedron Lett.**, (**2013**), 54, 3688. DOI:10.1016/j.tetlet.2013.05.014
 |
| 1. Unusual sequence effects on nucleotide excision repair of arylamine lesions: DNA bending/distortion as a primary recognition factor. Jain V, Hilton B, Lin B, **Patnaik S** , Liang F, Darian E, Zou Y, MacKerell Jr. AD, Cho BP\*, **Nucleic Acids Res**, (**2013**), 41, 869. DOI:10.1093/nar/gks1077
 |
| **2012** |
| 1. Conformational and thermodynamic properties modulate the nucleotide excision repair of 2-aminofluorene and 2-acetylaminofluorene dG adducts in the NarI sequence. Jain V, Hilton B, **Patnaik S**, Zou Y, Chiarelli MP, Cho BP\*, **Nucleic Acids Res**, (**2012**), 40, 3939. DOI:10.1093/nar/gkr1307
 |
| 1. Engineered polymer-supported synthesis of 3'-carboxyalkyl-modified oligonucleotides and their applications in the construction of biochips for diagnosis of the diseases. **Satyakam Patnaik**, Dash SK, Sethi D, Kumar A, Gupta KC and Kumar P\*. **Bioconjugate Chemistry**, (**2012**), 23, 664. DOI:10.1021/bc200610u
 |
| **2010** |
| 1. Structures of 2-acetylaminofluorene modified DNA revisited: Insight into Conformational Heterogeneity. **Satyakam Patnaik** and Bongsup Cho\*, **Chem. Res. Tox**., (**2010**), 23, 1650. DOI:10.1021/tx100341u
 |
| **2009** |
| 1. Polymer supported synthesis of aminooxyalkylated oligonucleotides, and some applications in the fabrication of microarrays. Sethi D, **Patnaik S**, Kumar A, Gandhi RP, Gupta KC and Kumar P\*, **Bioorg. Med. Chem.**, (**2009**), 17, 544. DOI:10.1016/j.bmc.2009.06.038
 |
| **2007** |
| 1. N-(Iodoacetyl)-N’-(Anthraquinon-2-oyl)-Ethelenediamine (IAED): A New Heterobifunctional Reagent for the Preparation of Biochips. **Satyakam Patnaik**, Swami A, Sethi D, Pathak A, Garg BS, Gupta KC and Kumar P\*, **Bioconjugate Chemistry**, (**2007**), 18, 8. DOI:10.1021/bc0602634
 |
| 1. Photomodulation of PS-modified oligonucleotides containing azobenzene substituent at pre-selected positions in phosphate backbone. **Satyakam Patnaik**, Kumar P, Garg BS, Gandhi RP and Gupta KC\*, **Bioorg. Med. Chem.**, (**2007**), 15, 7840. DOI:10.1016/j.bmc.2007.08.042
 |
| 1. Photoregulation of Drug Release in Azo-Dextran Nanogels. **Satyakam Patnaik**, Sharma AK, Garg BS, Gandhi RP and Gupta KC\*, **Intl. J. Pharmaceutics**, (**2007**), 342, 193. DOI:10.1016/j.ijpharm.2007.04.038
 |
| **2006** |
| 1. A new synthetic protocol for labeled oligonucleotides, using a chemically cleavable universal linker. Mahajan S, **Patnaik S**, Kumar P, Gandhi RP and Gupta KC\*, **Bioorg. Med. Chem.**, (**2006**) 14, 4302, DOI:10.1016/j.bmc.2006.01.063
 |
| **2005** |
| 1. Synthesis of labeled oligonucleotides through a new chemically cleavable linker, Mahajan S, **Patnaik S**, Kumar P and Gupta KC\*, **Tetrahedron Lett.**, (**2005**), 46, 6149. DOI:10.1016/j.tetlet.2005.06.164
 |