

Dr. Krishnendu Acharya

M.Sc (Botany); M.Tech. (Biotechnology), Ph.D.

Professor and Head

Department of Botany, University of Calcutta

Research interests: Macrofungal diversity and medicinal prospects; Innate immunity in plants and Myco-nanotechnology

Ph.D. Students : Degree awarded-13; Submitted -2; Registered- 6.

Research Experience: 23 years

Research Publications:

Total publication: **333**; Books : **4**; Patent: **2 (one applied)**

Total Scopus Citations: **3246**, Scopus h index= **33**

Total Google Scholar Citations: **4296**, h index=**37**, i10 index=**124**.

Best 100 publications since 2011

1. Gajendra N Maity, Prasenjit Maity, Indranil Choudhuri, Nandan Bhattacharyya, **Krishnendu Acharya**, Sudipta Dalai, Soumitra Mondal. Structural studies of a water insoluble β -glucan from *Pleurotus djamor* and its cytotoxic effect against PA1, ovarian carcinoma cells. *Carbohydrate Polymers*. (IF 6.044) (In press)
2. Darshana Gupta, Oindrila Bhattacharjee, Madhab K Sen, Drishti Mandal, Dhritiman Dey, Adhiraj DasGupta, Kazi T Ahmed, Rahul Gupta, Senjuti Sinharoy, Krishnendu Acharya, Dhruvaji Chatteropadhyay, V Ravichandiran, Syamal Roy, **Dipanjan Ghosh**. CRISPR-Cas9 System: A new-fangled Dawn in Gene Editing. *Life Sciences* (IF 3.448) (In press)
3. Somanjana Khatua, **Krishnendu Acharya**, Alkali treated antioxidative crude polysaccharide from *Russula alatareticula* potentiates murine macrophages by tuning TLR/NF- κ B pathway. *Scientific Reports*. **9:1713, 2019**. <https://doi.org/10.1038/s41598-018-37998-2> (IF- 4.011)
4. Somanjana Khatua, Swarnendu Chandra, **Krishnendu Acharya**, Expanding knowledge on *Russula alatareticula*, a novel mushroom from tribal cuisine, with chemical and pharmaceutical relevance, *Cytotechnology*. **71: 245–259, 2019** (IF- 1.672)
5. Abhishek Sadhu, Yuji Moriyasu, **Krishnendu Acharya**, and Maumita Bandyopadhyay, Nitric oxide and ROS mediate autophagy and regulate *Alternaria alternata* toxin-induced cell death in tobacco BY-2 cells, *Scientific Reports*. **9: 8973, 2019** (IF- 4.011)
6. Adhiraj Dasgupta, Dhritiman Dey, Dipanjan Ghosh, Tapan Kumar Lai, Nattamai Bhuvanesh, Sandip Dolui, Ravichandiran Velayutham, **Krishnendu Acharya**,

Astrakurkurone, a sesquiterpenoid from wild edible mushroom, targets liver cancer cells by modulating Bcl-2 family proteins. *IUBMB Life*. **71(7)**: 992-1002, 2019. doi: 10.1002/iub. (IF: 3.051)

7. Sudeshna Nandi, Swarnendu Chandra, Saurav Bhattacharya, Manisha Ahir, Debanjana Biswal, Rimpa Sikder, Arghya Adhikary, Nikhil R. Pramanik, Tapan K Lai, **Krishnendu Acharya**, Characterization and inception of a natural terpenoid astrakurkurol, as a novel anticancer molecule on human hepatocellular carcinoma cells, Hep3B. *Journal of Agricultural and Food Chemistry*. **67(27)**: 7660-7673, 2019 (IF- 3.571)
8. Sandipta Ghosh, Somanjana Khatua, **Krishnendu Acharya**, Crude polysaccharide from a wild mushroom enhances immune response in murine macrophage cells by TLR/NF- κ B pathway. *Journal of Pharmacy and Pharmacology*, **71**: 1311–1323, 2019 (IF – 2.390)
9. Nilanjan Chakraborty, Kabita Mukherjee, Anik Sarkar, **Krishnendu Acharya**. Interaction between bean and *Colletotrichum gloeosporioides*: understanding through biochemical approach, *Plants*, **8**: 345, 2019. doi:10.3390/plants8090345 (IF – 2.632)
10. Sourav Sadhukhan, Tapas Kumar Ghosh, Indranil Roy, Dipak Rana, Amartya Bhattacharyya, Rajib Saha, Sanatan Chattopadhyay, Somanjana Khatua, **Krishnendu Acharya**, Dipankar Chattopadhyay. Green synthesis of cadmium oxide decorated reduced graphene oxide nanocomposites and its electrical and antibacterial properties. *Materials Science & Engineering C*, **99**: 696–709, 2019 (IF 4.959)
11. Gajendra N Maity, Adhiraj Dasgupta, Sudipta Dalai, Krishnendu Acharya, **Soumitra Mondal**. Structural and antioxidant studies of a new arabinoxylan from green stem, *Andrographis paniculata* (Kalmegh). *Carbohydrate Polymers*, **212**: 297–303, 2019 (IF 6.044)
12. Mahasin Ali Khan, Meghma Bera, **Krishnendu Acharya**, Subir Bera, Occurrence of Phoma Sacc. in the phyllosphere of Neogene Siwalik forest of Arunachal sub-Himalaya and its palaeoecological implications. *Fungal Biology*. **123**: 18-28, 2019 (IF- 2.699)
13. Soumitra Paloi, **Krishnendu Acharya**. A new species of Lactarius (Russulales) from dry deciduous forest of West Bengal, India, *Nova Hedwigia*. **108 (1-2)**: 207-216, 2019 (IF- 1.058)
14. Bahare Salehi, Esra Capanoglu, Nabil Adrar, Gizem Catalkaya, Shabnum Shaheen, Mehwish Jaffer, Lalit Giri, Renu Suyal, Arun K Jugran, Daniela Calina, Anca Oana Docea, Senem Kamiloglu, Dorota Kregiel, Hubert Antolak, Ewelina Pawlikowska, Surjit Sen, **Krishnendu Acharya**, Zeliha Selamoglu, Javad Sharifi-Rad, Miquel Martorell, Célia F. Rodrigues, Farukh Sharopov, Natália Martins and Raffaele Capasso. Cucurbits Plants: A Key Emphasis to Its Pharmacological Potential. *Molecules*, **24**: 1854, 2019 (IF- 3.061)
15. Rungtiwa Phookamsak, Kevin D. Hyde; Rajesh Jeewon; D. Jayarama Bhat, E.B.Gareth Jones, Sajeewa S. N. Maharachchikumbura, Olivier Raspé, Samantha C. Karunarathna, Dhanushka D. Wanasinghe, Sinang Hongsanant, Mingkwan Doilom, Danushka S. Tennakoon, Alexandre R. Machado, André L. Firmino, Aniket Ghosh, Anuruddha Karunarathna, Armin Mešić, Arun Kumar Dutta, Benjarong Thongbai, Bandarupalli Devadatha, Chada Norphanphoun, Chanokned Senwannan, Deping Wei, Dhandevi Pem, Frank Kwekucher Ackah, Gen-Nuo Wang, Hong-Bo Jiang, Hugo Madrid, Hyang Burm

- Lee, Ishani D. Goonasekara, Ishara S. Manawasinghe, Ivana Kušan, Josep Cano, Josepa Gené, Junfu Li, Kanad Das, **Krishnendu Acharya**, et al. Fungal diversity notes 929-1035: taxonomic and phylogenetic contributions on genera and species of fungal taxa. *Fungal Diversity*. **95**:1–273, 2019. (IF 15.596)
16. Chirantan Das, Subhadip Chakraborty, Nirmal K Bera, **Krishnendu Acharya**, Dipankar Chattopadhyay, Anupam Karmakar, Sanatan Chattopadhyay, Impedimetric approach for estimating the presence of metanil yellow in turmeric powder from tunable capacitance measurement, *Food Analytical Methods* **12**:1017–1027, 2019 (IF 2.413)
17. Bahare Salehi, Farukh Sharopov, Tugba Boyunegmez Tumer, Adem Ozleyen, Celia Rodríguez-Pérez, Shahira Ezzat, Elena Azzini, Tahereh Hosseinabadi, Monica Butnariu, Ioan Sarac, Cristian Bostan, **Krishnendu Acharya**, Surjit Sen, Kadriye Nur Kasapoglu, Ceren Daşkaya-Dikmen, Beraat Özçelik, navid baghalpour, Javad Sharifi-Rad, Patrick Valere Tsouh Fokou, William C. Cho, Natália Martins, Symphytum species: A comprehensive review on chemical composition, food applications and phytopharmacology. *Molecules*, **24**: 2272, 2019. (IF- 3.061)
18. Bahare Salehi, Javad Sharifi-Rad, Esra Capanoglu, Nabil Adrar, Gizem Catalkaya, Shabnum Shaheen, Mehwish Jaffer, Lalit Giri, Renu Suyal, Arun K Jugran, Daniela Calina, Anca Oana Docea, Senem Kamiloglu, Dorota Kregiel, Hubert Antolak, Ewelina Pawlikowska, Surjit Sen, **Krishnendu Acharya**, Moein Bashiry, Zeliha Selamoglu, Miquel Martorell, Farukh Sharopov, Natália Martins, Jacek Namiesnik, William C. Cho, Cucurbita Plants: From Farm to Industry, *Applied Sciences*, **9**: 3387, 2019. doi:10.3390/app9163387 (IF- 3.217)
19. Bahare Salehi, Mohamed A. Salem, Surjit Sen, Ahmed M. Zayed, **Krishnendu Acharya**, Shahira Ezzat, Domenico Trombetta, Antonella Smeriglio, Farukh Sharopov, Carla Marina Salgado Castillo, Elen Cristina Quispe Chávez, Simin Emamzadeh Yazdi, Henry Llaïque, Michael Villalobos, Natália Martins, Javad Sharifi-Rad, Insights into *Eucalyptus* genus chemical constituents, biological activities and health-promoting effects, *Trends in Food Science & Technology*, **91**: 609 - 624, 2019. (IF- 8.519)
20. Soumitra Paloi, Annemieke Verbeken and **Krishnendu Acharya**. *Lactarius brunneocinnamomeus*, a new species of *Lactarius* subgenus *Russularia* from West Bengal, India. *Phytotaxa*, **416 (4)**: 294–300, 2019 (IF- 1.168)
21. Manabendra Pattanayak, Prasenjit Maity, Surajit Samanta, Ipsita K. Sen, Dilip K. Manna, Ashis K. Nandi, Sandipta Ghosh, **Krishnendu Acharya**, Syed S. Islam, Studies on structure and antioxidant properties of a heteroglycan isolated from wild edible mushroom *Lentinus sajor-caju*. *International Journal of Biological Macromolecules*. **107**: 322–331, 2018 (IF 4.784)
22. Arun Kumar Dutta, Vladimir Antonin, Reddhita Barui, **Krishnendu Acharya**. A new species of *Clitocybula* (Marasmiaceae) from West Bengal, India. *Nova Hedwigia*. **107 (1–2)**: 195–203, 2018 (IF 1.058)
23. Arun Kumar Dutta, **Krishnendu Acharya**, A new host record for the parasitic macrofungus *Marasmius palmivorus* Sharples (Marasmiaceae), *Current Science*, **114(7)**: 1400-1402, 2018. (IF 0.756)

24. Khushi Mukherjee and **Krishnendu Acharya**, Toxicological effect of binary metal oxide nanoparticles on soil and aquatic habitats, *Archives of Environmental Contamination and Toxicology*. **75**:175–186, 2018 (IF 2.135)
25. Soumitra Paloi, Kanad Das and **Krishnendu Acharya**. *Russula darjeelingensis*, a remarkable new species of *Russula* from Eastern Himalaya, India, *Phytotaxa*. **358 (1)**: 083–090, 2018 (IF 1.168)
26. Sirin Salma Sultana, Joydip Ghosh, Sondipon Chakraborty, Debarati Mukherjee, Somaditya Dey, Suvadip Mallick, Aratri Dutta, Soumitra Paloi, Somanjana Khatua, Tanmoy Dutta, Soumen Bhattacharjee, **Krishnendu Acharya**, Narayan Ghorai, Chiranjib Pal, Selective inhibition of *Leishmania donovani* by semi-purified fraction of wild mushroom *Grifola frondosa*. *Experimental Parasitology*, **192**: 73-84, 2018. (IF 1.719)
27. Somanjana Khatua and **Krishnendu Acharya**. Water soluble antioxidative crude polysaccharide from *Russula senecis* elicits TLR modulated NF-κB signalling pathway and pro-inflammatory response in murine macrophages. *Frontiers in Pharmacology*. 9:985. 2018 (IF- 3.845)
28. Bahare Salehi, Zorica Stojanović-Radić, Jelena Matejić, Farukh Sharopov, Hubert Antolak, Dorota Kręgiel, Surjit Sen, Mehdi Sharifi-Rad, Krishnendu Acharya, Razieh Sharifi-Rad, Miquel Martorel, Antoni Sureda, Natália Martin, Javad Sharifi-Rad, Plants of Genus *Mentha*: From Farm to Food Factory, *Plants* **7**, 70, 2018. (IF- 2.632)
29. Mehdi Sharifi-Rad, Beraat Ozcelik, Gökçe Altın, Ceren Daşkaya-Dikmen, Miquel Martorell, Karina Ramírez-Alarcón, Pedro Alarcón-Zapata, Maria Flaviana B. Morais-Braga, Joara N.P. Carneiro, Antonio Linkoln Alves Borges Leal, Henrique Douglas Melo Coutinho, Rabin Gyawali, Reza Tahergorabi, Salam A. Ibrahim, Razieh Sahrifi-Rad, Farukh Sharopov, Bahare Salehi, Mariadel Mar Contreras, Antonio Segura-Carretero, Surjit Sen, **Krishnendu Acharya**, Javad Sharifi-Rad, *Salvia* spp. plants-From Farm to Food applications and Phytopharmacotherapy, *Trends in Food Science & Technology* **80**: 242-263, 2018 (IF- 8.519)
30. Bahare Salehi, Zorica Stojanovic-Radic, Jelena Matejic, Farukh Sharopov, Hubert Antolak, Dorota Kręgiel, Surjit Sen, Mehdi Sharifi-Rad, **Krishnendu Acharya**, Razieh Sharifi-Rad, Miquel Martorell, Antoni Sureda, Natália Martins and Javad Sharifi-Rad, Plants of the Genus *Lavandula*: From Farm to Pharmacy, *Natural product communications*, **13(10)**:1385 – 1402, 2018 (IF- 0.554)
31. Entaj Tarafder, Arun Kumar Dutta, Jit Sarkar and **Krishnendu Acharya**, A new species of *Agaricus* sect. *Brunneopicti* from Eastern India. *Phytotaxa*, **374 (2)**: 139–146, 2018. (IF- 1.168)
32. Bibhash C Panda, Prasenjit Maity, Ashis K Nandi, Manabendra Pattanayak, Dilip K Manna, Soumitra Mondal, Satyajit Tripathy, Somenath Roy, **Krishnendu Acharya**, Syed S Islam, Heteroglycan of an edible Mushroom *Pleurotus cystidiosus*: structural characterization and study of biological activities. *International Journal of Biological Macromolecules*, **95**: 833–842, 2017. (IF- 4.784)
33. Prasenjit Maity, Ashis K. Nandi, Dilip K. Manna, Manabendra Pattanayak, Ipsita K. Sen, Sunil K. Bhanja, Surajit Samanta, Bibhash C. Panda, Soumitra Paloi, **Krishnendu**

- Acharya**, Syed S. Islam, Structural characterization and antioxidant activity of a glucan from *Meripilus giganteus*. *Carbohydrate Polymers*, **157**: 1237–1245, 2017 (IF- 6.044)
34. Dilip K. Manna, Prasenjit Maity, Ashis K. Nandi, Manabendra Pattanayak, Bibhash C. Panda, Amit K. Mandal, Satyajit Tripathy, **Krishnendu Acharya**, Atish K. Sahoo, Nibha Gupta, Somnath Roy, Syed S. Islam, Structural elucidation and immunostimulating property of a novel polysaccharide extracted from an edible mushroom *Lentinus fusipes*. *Carbohydrate Polymers*, **157**: 1657–1665, 2017 (IF- 6.044)
35. Adhiraj Dasgupta, Joy Sarkar, Manosij Ghosh, Amartya Bhattacharya, Anita Mukherjee, Dipankar Chattopadhyay, **Krishnendu Acharya**. Green conversion of graphene oxide to graphene nanosheets and its biosafety study. *PLoS ONE*, **12(2)**: e0171607, 2017 (IF- 2.776)
36. Lakshmi Priya Datta, Ananya Chatterjee, **Krishnendu Acharya**, Priyadarsi De, Mahua Das. Enzyme Responsive Nucleotide Functionalized Silver Nanoparticles with Effective Antimicrobial & Anticancer Activity. *New Journal of Chemistry*, **41**: 1538—1548, 2017 (IF 3.069)
37. Joy Sarkar, **Krishnendu Acharya**. An eco-friendly route of γ -Fe₂O₃ nanoparticles formation and investigation of the mechanical properties of the HPMC- γ -Fe₂O₃ nanocomposites, *Bioprocess and Biosystems Engineering* **40**: 351 – 359, 2017. (IF 2.371)
38. Ruby Ghosh, Dipak Kumar Paruya, **Krishnendu Acharya**, Narayan Ghorai and Subir Bera, How reliable are non-pollen palynomorphs in tracing vegetation changes and grazing activities? Study from the Darjeeling Himalaya, India. *Palaeogeography, Palaeoclimatology, Palaeoecology*, **475**: 23–40, 2017 (IF 2.616)
39. Swarnendu Chandra, Nilanjan Chakraborty, Koustubh Panda, **Krishnendu Acharya**, Chitosan-induced immunity in *Camellia sinensis* (L.) O. Kuntze against blister blight disease is mediated by nitric-oxide, *Plant Physiology and Biochemistry*, **115**: 298–307, 2017 (IF 3.404)
40. Chirantan Das, Subhadip Chakraborty, **Krishnendu Acharya**, Nirmal K Bera, Dipankar Chattopadhyay, Anupam Karmakar, Sanatan Chattopadhyay, FT-MIR supported Electrical Impedance Spectroscopy based study of sugar adulterated honeys from different floral origin, *Talanta*, **171**: 327–334, 2017 (IF 4.916)
41. Saowaluck Tibpromma, Kevin D. Hyde, Rajesh Jeewon, Sajeewa S. N. Maharachchikumbura, Jian-Kui Liu, D. Jayarama Bhat, E. B. Gareth Jones, Eric H. C. McKenzie, Erio Camporesi, Timur S. Bulgakov, Mingkwan Doilom, André Luiz Cabral Monteiro de Azevedo Santiago, Kanad Das, Patinjareveetil Manimohan, Tatiana B. Gibertoni, Young Woon Lim, Anusha Hasini Ekanayaka, Benjarong Thongba, Hyang Burm Lee, Jun-Bo Yang, Paul M. Kirk, Phongeun Sysouphanthong, Sanjay K. Singh, Saranyaphat Boonmee, Wei Dong, K. N. Anil Raj, K. P. Deepna Latha, Rungtiwa Phookamsak, Chayanard Phukhamsakda, Sirinapa Konta, Subashini C. Jayasiri, Chada Norphanphoun, Danushka S. Tennakoon, Junfu Li, Monika C. Dayarathne, Rekhani H. Perera, Yuanpin Xiao, Dhanushka N. Wanasinghe, Indunil C. Senanayake, Ishani D. Goonasekara, N. I. de Silva, Ausana Mapook, Ruvishika S.

Jayawardena, Asha J. Dissanayake, Ishara S. Manawasinghe, K. W. Thilini Chethana, Zong-Long Luo, Kalani Kanchana Hapuarachchi, Abhishek Baghela, Adriene Mayra Soares, Alfredo Vizzini, Angelina Meiras-Ottoni, Armin Mesić, Arun Kumar Dutta, Carlos Alberto Fragoso de Souza, Christian Richter, Chuan-Gen Lin, Debasis Chakrabarty, Dinushani A. Daranagama, Diogo Xavier Lima, Dyutiparna Chakraborty, Enrico Ercole, Fang Wu, Giampaolo Simonini, Gianrico Vasquez, Gladstone Alves da Silva, Helio Longoni Plautz Jr., Hiran A. Ariyawansa, Hyun Lee, Ivana Kus̄an, Jie Song, Jingzu Sun, Joydeep Karmakar, Kaifeng Hu, Kamal C. Semwal, Kasun M. Thambugala, Kerstin Voigt, **Krishnendu Acharya**, et al. Fungal diversity notes 491–602: taxonomic and phylogenetic contributions to fungal taxa, *Fungal Diversity* **83**:1–261, 2017 (IF 15.596)

42. Somanjana Khatua, Arun Kumar Dutta, Swarnendu Chandra, Soumitra Paloi, Kanad Das, **Krishnendu Acharya**. Introducing a novel mushroom from mycophagy community with emphasis on biomedical potency. *PLoS ONE* **12**(5): e0178050. 2017. (IF 2.776)
43. P.W. Crous, M.J. Wingfield, T.I. Burgess, G.E.St.J. Hardy, P.A. Barber, P. Alvarado, C.W. Barnes, P.K. Buchanan, M. Heykoop, G. Moreno, R. Thangavel, S. van der Spuy, A. Barili, S. Barrett, S.O. Cacciola, J.F. Cano-Lira, C. Crane, C. Decock, T.B. Gibertoni, J. Guarro, M. Guevara-Suarez, V. Hubka, M. Kolařík, C.R.S. Lira, M.E. Ordoñez, M. Padamsee, L. Ryvarden, A.M. Soares, A.M. Stchige, D.A. Sutton, A. Vizzini, B.S. Weir, **K. Acharya**, et al. Fungal Planet description sheets: 558–624, *Persoonia* **38**, 2017: 240 – 385 (IF 6.860)
44. Nilanjan Chakraborty, Swarnendu Chandra, **Krishnendu Acharya**. Biochemical basis of improvement of defense in tomato plant against *Fusarium* wilt by CaCl₂, *Physiology and Molecular Biology of Plants*, **23**(3):581–596, 2017 (IF 1.539)
45. Gunjan Biswas, Sudeshna Nandi, Debashis Kuila and **Krishnendu Acharya**, A comprehensive review on food and medicinal prospects of *Astraeus hygrometricus*, *Pharmacognosy Journal*, **9**(6): 799-806, 2017 (IF 1.260)
46. Nilanjan Chakraborty, **Krishnendu Acharya**, "NO way"! Says the plant to abiotic stress, *Plant Gene*. **11**: 99–105, 2017 (IF 2.638)
47. Arun Kumar Dutta, Sudeshna Nandi, Entaj Tarafder, Rimpa Sikder, Anirban Roy, **Krishnendu Acharya**. *Trogia benghalensis* (Marasmiaceae, Basidiomycota), a new species from India. *Phytotaxa* **331** (2): 273–280, 2017. (IF 1.168)
48. Debanjana Biswal, Nikhil Ranjan Pramanik, Syamal Chakrabarti, Michael G. B. Drew, **Krishnendu Acharya**, Swarnendu Chandra, Syntheses, crystal structures, DFT calculations, protein interaction and anticancer activities of water soluble dipicolinic acid-imidazole based oxidovanadium(IV) complexes, *Dalton Transactions*, **46**,16682-16702, 2017 (IF 4.052)
49. Ananya Chatterjee, **Krishnendu Acharya**, Include Mushroom in Daily Diet – A Strategy for Better Hepatic Health. *Food Reviews International*. **32**(1): 68–97, 2016. (IF- 3.933)
50. Kanad Das, M.E. Hembrom, Arun Kumar Dutta,, Arvind Parihar, Soumitra Paloi, **Krishnendu Acharya**. *Ramaria subalpina* (Gomphaceae): A new edible fungus from India, *Phytotaxa*, **246** (2): 137–144, 2016 (IF-1.168)

51. Soumitra Paloi, Arun Kumar Dutta, Prakash Pradhan, Anirban Roy and **Krishnendu Acharya**. *Russula buyckii*, a new species of *Russula* subgen. *Incrustatula* from Eastern Himalaya, India. *Phytotaxa*. **252** (2): 123–130 2016 (IF-1.168)
52. Suvadip Mallick, Aritri Dutta, Ankur Chaudhuri, Debasri Mukherjee, Somaditya Dey, Subhadra Halder, Joydip Ghosh, Debarati Mukherjee, Sirin Sultana, Gunjan Biswas, Tapan Lai, Pradyumna Patra, Indranil Sarkar, Sibani Chakraborty, Bhaskar Saha, **Krishnendu Acharya**, and Chiranjib Pal. Successful therapy of murine visceral leishmaniasis with astrakurkurone, a triterpene isolated from mushroom *Astraeus hygrometricus*, involves the induction of protective cell mediated immunity and TLR9. *Antimicrobial Agents and Chemotherapy*. 60(5): 2696 – 2708, 2016 (IF- 4.715)
53. Somanjana Khatua, **Krishnendu Acharya** Influence of extraction parameters on physico-chemical characters and antioxidant activity of water soluble polysaccharides from *Macrocybe gigantea*. *Journal of Food Science and Technology*, **53**(4): 1878-1888, 2016 (IF- 1.957)
54. P.W. Crous, M.J. Wingfield, D.M. Richardson, J.J. Le Roux, D. Strasberg, J. Edwards, F. Roets, V. Hubka, P.W.J. Taylor, M. Heykoop, M.P. Martín, G. Moreno, D.A. Sutton, N.P. Wiederhold, C.W. Barnes, J.R. Carlavilla, J. Gené, A. Giraldo, V. Guarnaccia, J. Guarro, M. Hernández-Restrepo, M. Kolařík, J.L. Manjón, I.G. Pascoe, E.S. Popov, M. Sandoval-Denis, J.H.C. Woudenberg, **K. Acharya**, et al. Fungal Planet Description Sheets: 400–468, *Persoonia - Molecular Phylogeny and Evolution of Fungi*. **36**, 316 – 458, 2016 (IF- 6.860)
55. Nilanjan Chakraborty, Swarnendu Chandra, **Krishnendu Acharya**. Abiotic elicitors mediated elicitation of innate immunity in tomato: An *ex vivo* comparison. *Physiology and Molecular Biology of Plants*, **22**(3):307–320, 2016 (IF- 1.539)
56. Payel Mitra, Narayan Chandra Mandal and **Krishnendu Acharya**. Mycochemicals and antioxidant activity of polyphenol rich fraction of *Termitomyces microcarpus*. *International Food Research Journal*. **23**(6): 2384-2389, 2016 (IF- 0.662)
57. Nilanjan Chakraborty, Swarnendu Chandra, and **Krishnendu Acharya**, Sublethal heavy metal stress stimulates innate immunity in tomato. *The Scientific World Journal*, Volume 2015 (2015), Article ID 208649, 7 pages, <http://dx.doi.org/10.1155/2015/208649> (IF 1.460)
58. Bibhash C Panda, Soumitra Mondal, K Sanjana P Devi, Tapas K Maiti, Somanjana Khatua, **Krishnendu Acharya**, Syed S Islam. Pectic polysaccharide from the green fruits of *Momordica charantia* (Karela): structural characterization and study of immunoenhancing and antioxidant properties. *Carbohydrate Research*, **401**: 24 – 31, 2015 (IF 1.873)
59. Prasenjit Maity, Ipsita K. Sen, Praloy K. Maji, Soumitra Paloi, K. Sanjana P. Devi, **Krishnendu Acharya**, Tapas K. Maiti, Syed S. Islam. Structural, immunological, and antioxidant studies of β -glucan from edible mushroom *Entoloma lividoalbum*. *Carbohydrate Polymers*. **123**: 350–358, 2015. (IF 6.044)
60. Somanjana Khatua, Arun K. Dutta, **Krishnendu Acharya**, Antioxidant and free radical scavenging capacity of phenolic extract from *Russula senecis*: an unexplored wild mushroom for your healthy lunch basket. *PeerJ*. **3**:e810; 2015 (IF- 2.353)

61. Suvadip Mallick, Somaditya Dey, Supratim Mandal, Aritri Dutta, Debarati Mukherjee, Gunjan Biswas, Soumya Chatterjee, Sanjaya Mallick, Tapan Lai, **Krishnendu Acharya**, Chiranjib Pal. Astrakurkurene, a novel triterpene isolated from Indian mushroom *Astraeus hygrometricus*, induces mitochondrial dysfunction and reactive oxygen species dependent death in *Leishmania donovani*. *Future Microbiology*. **10(5)**: 763–789, 2015. (IF- 2.746)
62. P.W. Crous, M.J. Wingfield, J. Guarro, M. Hernández-Restrepo, D.A. Sutton, **K. Acharya**, et al. Fungal Planet Description Sheets: 320–370, *Persoonia - Molecular Phylogeny and Evolution of Fungi*. **34**: 167– 266, 2015 (IF- 6.860)
63. Debanjana Biswal, Nikhil Ranjan Pramanik, Syamal Chakrabarti, Nirmalya Chakraborty, **Krishnendu Acharya**, Sudhanshu Sekhar Mandal, Saktiprosad Ghosh, Michael G. B. Drew, Tapan Kumar Mondal and Sujan Biswas, Lewis base controlled supramolecular architectures via non-covalent interactions of dioxomolybdenum(VI) complexes with an ONS donor ligand: DFT calculations and biological study. *New Journal of Chemistry*, **39**: 2778-2794, 2015, (IF 3.069)
64. Tamalika Das, Sabina yeasmin, Somanjana Khatua, **Krishnendu Acharya** and Abhijit Bandyopadhyay. Influence of a blend of guar gum and poly (vinyl alcohol) on long term stability, antibacterial and antioxidant efficacies of silver nanoparticles. *RSC Advances*. **5**: 54059–54069, 2015. (IF - 3.049)
65. Arun K. Dutta, Soumitra Paloi, Prakash Pradhan, **Krishnendu Acharya**, A new species of *Russula* (Russulaceae) from India based on morphological and molecular (ITS sequence) data. *Turkish Journal of Botany*, **39**: 850-856, 2015 (IF-1.087)
66. Surajit Samanta, Ashis K Nandi, Ipsita K Sen, Prasenjit Maity, Manabendra Pattanayak, K Sanjana P Devi, Somanjana Khatua, Tapas K Maiti, **Krishnendu Acharya**, Syed S Islam. Studies on antioxidative and immunostimulating fucogalactan of the edible mushroom *Macrolepiota dolichaula*. *Carbohydrate Research*, **413**: 22-29, 2015. (IF 1.873)
67. Manabendra Pattanayak, Surajit Samanta, Prasenjit Maity, Ashis K Nandi, Dilip K Manna, Payel Mitra, **Krishnendu Acharya**, Syed S Islam. Heteroglycan of an edible mushroom *Termitomyces clypeatus*: Structure elucidation and antioxidant properties. *Carbohydrate Research*, **413**: 30-36, 2015. (IF 1.873)
68. Arun K. Dutta, Andrew W. Wilson, Antonin Vladimír, **Krishnendu Acharya**, Taxonomic and phylogenetic study on *Gymnopus* from Eastern India. I. *Mycological Progress*, **14**:79, 2015 (IF - 2.0)
69. Arun Kumar Dutta, Kanad Das and **Krishnendu Acharya**. A new species of *Marasmius* sect. *Globulares* from Indian Himalaya with tall basidiomata. *Mycosphere*, **6 (5)**: 560–567, 2015.(IF 1.992)
70. Swarnendu Chandra, Nilanjan Chakraborty, Adhiraj Dasgupta, Joy Sarkar, Koustubh Panda, **Krishnendu Acharya**. Chitosan nanoparticles: A positive modulator of innate immune responses in plants. *Scientific Reports*, **5**:15195, 2015 (IF 4.011)
71. Debanjana Biswal, Nikhil Ranjan Pramanik, Syamal Chakrabarti, Payel Mitra, **Krishnendu Acharya**, Sudhanshu Sekhar Mandal, Saktiprosad Ghosh, Michael G. B.

- Drew, Tapan Kumar Mondal and Sujana Biswas, Supramolecular framework of binuclear dioxomolybdenum(VI) complexes with ONS donor ligands using 4,4'-azopyridine as pillar: Crystal Structure, DFT calculations and Biological Study. *New Journal of Chemistry*, **39**: 8681-8694, 2015 (IF 3.069)
72. Soumitra Paloi, Arun K. Dutta, **Krishnendu Acharya**, A new species of Russula (Russulales) from Eastern Himalaya, India. *Phytotaxa*, **234(3)**:255–262, 2015 (IF-1.168)
73. Ashis K. Nandi, Surajit Samanta, Saikat Maity, Ipsita K. Sen, Somanjana Khatua, K. Sanjana P. Devi, **Krishnendu Acharya**, Tapas K. Maiti, Syed S. Islam. Antioxidant and immunostimulant β -glucan from edible mushroom *Russula albonigra* (Krombh.) Fr. *Carbohydrate Polymers*, **99**: 774– 782, 2014 (IF - 6.044)
74. Prasenjit Maity, Surajit Samanta, Ashis K. Nandi, Ipsita K. Sen, Soumitra Paloi, **Krishnendu Acharya**, Syed S. Islam Structure elucidation and antioxidant properties of a soluble β -D-glucan from mushroom *Entoloma lividoalbum*. *International Journal of Biological Macromolecules*. **63**: 140–149, 2014 (IF - 4.784)
75. Pradip Kumar Kar, Sanatan Murmu, Saswati Saha, Veena Tandon and **Krishnendu Acharya**, Anthelmintic efficacy of gold nanoparticles derived from phytopathogenic fungus, *Nigrospora oryzae*. *PLoS ONE* **9(1)**: e84693. 2014 (IF - 2.776)
76. Joy Sarkar, Monosij Ghosh, Anita Mukherjee, Dipankar Chattopadhyay and **Krishnendu Acharya**, Biosynthesis and safety evaluation of ZnO nanoparticles. *Bioprocess and Biosystems Engineering* **37**:165–171, 2014 (IF - 2.371)
77. Suvadip Mallick; Aritri Dutta; Somaditya Dey; Joydip Ghosh; Debarati Mukherjee; Salma S Sultana; Supratim Mandal; Soumitra Paloi; Somanjana Khatua; **Krishnendu Acharya**; Chiranjib Pal. Selective inhibition of *Leishmania donovani* by active extracts of wild mushrooms used by the tribal population of India: An in vitro exploration for new leads against parasitic protozoans, *Experimental Parasitology* **138** : 9–17, 2014 (IF- 1.719)
78. Md. Masud Rahaman Mollick, Biplab Bhowmick, Dipanwita Maity, Dibyendu Mondal, Indranil Roy, Joy Sarkar, Dipak Rana, **Krishnendu Acharya**, Sanatan Chattopadhyay, Dipankar Chattopadhyay, Green synthesis of silver nanoparticles-based nanofluids and investigation of their antimicrobial activities, *Microfluidics and Nanofluidics*, 16:541–551, 2014. (IF- 2.437)
79. Kalipada Bankura, Dipanwita Maity, Md Masud R Mollick, Dibyendu Mondal, Biplab Bhowmik, Indranil Roy, Tarapada Midya, Joy Sarkar, Dipak Rana, **Krishnendu Acharya**, Dipankar Chattopadhyay, Antibacterial activity of Ag-Au alloy NPs and chemical sensor property of Au NPs synthesized by dextran. *Carbohydrate Polymers*, **107 (1)**: 151 – 157, 2014 (IF- 6.044)
80. Prasenjit Maitya, Ashis K. Nandi a, Ipsita K. Sena, Manabendra Pattanayaka, Sourav Chattopadhyay, Sandeep Kumar Dash, Somenath Roy, **Krishnendu Acharya**, Syed S Islam, Heteroglycan of an edible mushroom *Entoloma lividoalbum*: Structural characterization and study of its protective role for human lymphocytes. *Carbohydrate Polymers*, **114**: 157–165, 2014. (IF - 6.044)

81. Arun K. Dutta, Swarnendu Chandra, Prakash Pradhan and **Krishnendu Acharya**, A new species of *Marasmius* sect. *sicci* from India. **Mycotaxon** **128**:117–125, 2014 (**IF 0.531**)
82. Md Masud R Mollick, Biplab Bhowmik, Dibyendu Mondal, Dipanwita Maity, Dipak Rana, Sandeep K Dash, Sourav Chattopadhyay, Somenath Roy, Joy Sarkar, **Krishnendu Acharya**, Mukut Chakraborty, and Dipankar Chattopadhyay, Anticancer (in vitro) and antimicrobial effect of gold nanoparticles synthesized using *Abelmoschus esculentus* (L.) pulp extract via green route. **RSC Advances**. **4(71)**: 37838-37848, 2014, (**IF - 3.049**)
83. Swarnendu Chandra, Nilanjan Chakraborty, Amrita Chakraborty, Ripen Rai, Bisyajit Bera and **Krishnendu Acharya**, Abiotic elicitor mediated improvement of innate immunity in *Camellia sinensis*, **Journal of Plant Growth Regulation**. **33**:849–859, 2014 (**IF - 2.179**)
84. P.W. Crous, M.J. Wingfield, R.K. Schumacher, B.A. Summerell, A. Giraldo, J. Gené, J. Guarro, D.N. Wanasinghe, K.D. Hyde, E. Camporesi, E.B. Gareth Jones, K.M. Thambugala, E.F. Malysheva, V.F. Malysheva, **Krishnendu Acharya**, et al. Fungal Planet Description Sheets: 281–319, **Persoonia: Molecular Phylogeny and Evolution of Fungi**. **33**: 212 – 289, 2014 (**IF- 6.860**)
85. Joy Sarkar, Suman Kalyan Roy, Aparna Laskar, Dipankar Chattopadhyay and **Krishnendu Acharya**, Bioreduction of chloroaurate ions to gold nanoparticles by culture filtrate of *Pleurotus sapidus*, **Materials Letter**, **92**: 313–316, 2013. (**IF - 3.019**).
86. S. Chatterjee, G. Biswas, S. Chandra, Goutam Kumar Saha and **Krishnendu Acharya**, Apoptogenic effects of *Tricholoma giganteum* on Ehrlich's ascites carcinoma cell. **Bioprocess and Biosystems Engineering** **36**:101–107, 2013. (**IF - 2.371**)
87. Surajit Samanta, Kousik Maity, Ashis K. Nandi, Ipsita K. Sen, K. Sanjana P. Devi, Shreemoyee Mukherjee, Tapas K. Maiti, **Krishnendu Acharya**, Syed S. Islam, A glucan from an ectomycorrhizal edible mushroom *Tricholoma crassum* (Berk.) Sacc.: isolation, characterization and biological studies. **Carbohydrate Research**, **367** : 33–40, 2013. (**IF- 1.873**).
88. Sukesh Patra, Pradip Patra, Kankan K. Maity, Soumitra Mandal, Sanjay K. Bhunia, Biswajit Dey, K.Sanjana P. Devi, Somanjana Khatua, **Krishnendu Acharya**, Tapas K. Maiti, Syed S. Islam, A heteroglycan from the mycelia of *Pleurotus ostreatus*: structure determination and study of antioxidant properties. **Carbohydrate Research**, **368** (2013) 16–21 (**IF- 1.873**).
89. Nilanjan Chakraborty, Debarupa Banerjee, Moumita Ghosh, Prakash Pradhan, Namrata Shanu Gupta, **Krishnendu Acharya** and Maitreyi Banerjee, Influence of plant growth regulators on callus mediated regeneration and secondary metabolites synthesis in *Withania somnifera* (L.) Dunal, **Physiology and Molecular Biology of Plants**. (2013) 19: 117-125 (**IF 1.539**).
90. Ashis K. Nandi, Surajit Samanta, Ipsita K. Sen, K. Sanjana P. Devi, Tapas K. Maiti, **Krishnendu Acharya**, Syed S. Islam. Structural elucidation of an immunoenhancing heteroglycan isolated from *Russula albonigra* (Krombh.) Fr., **Carbohydrate Polymers** **94**: 918– 926, 2013, (**IF- 6.044**)

91. Ananya Chatterjee, Somanjana Khatua, Sirshendu Chatterjee, Soumitra Paloi, Shatavisa Mukherjee, Atashi Mukherjee, **Krishnendu Acharya**, Sandip K. Bandyopadhyay, Polysaccharide-rich fraction of *Termitomyces eurhizus* accelerate healing of indomethacin induced gastric ulcer in mice. *Glycoconjugate Journal*, **30**:759–768, 2013. (IF 2.926)
92. Gunjan Biswas, Soumya Chatterjee and **Krishnendu Acharya**, Chemopreventive activity of the ethanolic extract of *Astraeus hygrometricus* (Pers.) Morg. On Ehrlich's Ascites Carcinoma Cell. *Digest Journal of Nanomaterials and Biostructures*. **7**: 185 – 191. 2012 (IF- 0.638)
93. Joy Sarkar, Sandipan Ray, Dipankar Chattopadhyay, Aparna Laskar and **Krishnendu Acharya**, Mycogenesis of gold nanoparticles using a phytopathogen *Alternaria alternata*, *Bioprocess and Biosystems Engineering*, **35**: 637 – 643 2012. (IF 2.371)
94. Kalipada Bankura, Dipanwita Maity, Masud R Mollick, Dibyendu Mondal, Biplab Bhowmick, Mrinal K Bain, A. Chakraborty, Joy Sarkar, **Krishnendu Acharya**, and Dipankar Chattopadhyay, Synthesis, Characterization and Antimicrobial Activity of Dextran Stabilized Silver Nanoparticles in Aqueous Medium. *Carbohydrate Polymers*. **89**: 1159 – 1165, 2012. (IF- 6.044)
95. Tapan K. Lai, Gunjan Biswas, Soumya Chatterjee, Aritri Dutta, Chiranjib Pal, Julie Banerji, Nattamai Bhuvanesh, Joseph H. Reibenspies and **Krishnendu Acharya**, Leishmanicidal and anticandidal activity of constituents of Indian edible mushroom *Astraeus hygrometricus*. *Chemistry & Biodiversity*, **9**: 1517 – 1524, 2012. (IF- 1.449)
96. Dipanwita Maity, Md. Masud Rahaman Mollick, Dibyendu Mondal, Biplab Bhowmick, Mrinal Kanti Bain, Kalipada Bankura, Joy Sarkar, **Krishnendu Acharya**, Dipankar Chattopadhyay, Synthesis of methylcellulose-silver nanocomposite and investigation of mechanical and antimicrobial properties. *Carbohydrate Polymers*. **90** (4): 1818– 1825, 2012 (IF- 6.044).
97. Pradip Patra, Sunil K. Bhanja, Ipsita K. Sen, Ashis K. Nandi, Surajit Samanta, Debsankar Das, K. Sanjana P. Devi, Tapas K. Maiti, **Krishnendu Acharya**, Syed S. Islam. Structural and immunological studies of hetero polysaccharide isolated from the alkaline extract of *Tricholoma crassum* (Berk.) Sacc. *Carbohydrate Research*, **362** (2012) 1–7 (IF- 1.873)
98. Ashis K. Nandi, Ipsita K. Sen, Surajit Samanta, Kousik Maity, K. Sanjana P. Devi, Shreemoyee Mukherjee, Tapas K. Maiti, **Krishnendu Acharya**, Syed S. Islam Glucan from hot aqueous extract of an ectomycorrhizal edible mushroom, *Russula albonigra* (Krombh.) Fr.: structural characterization and study of immunoenhancing properties. *Carbohydrate Research*, **363**: 43-50, 2012. (IF- 1.873)
99. **Krishnendu Acharya**, Arun Kumar Dutta and Prakash Pradhan, One new variety of *Volvariella pusilla* from West Bengal, India, *Mycosphere*, **3**(6): 935–938, 2012. (IF 1.992)
100. Dipanwita Maity, Mrinal Kanti Bain, Biplab Bhowmik, Joy Sarkar, Saswati Saha, **Krishnendu Acharya**, Mukut Chakraborty and Dipankar Chakraborty. In Situ Synthesis, Characterization and Antimicrobial Activity of Silver Nanoparticles using

Water Soluble Polymer, *Journal of Applied Polymer Science*, **122**: 2189–2196, 2011. (IF- 2.188)

Books

1. “**Biofertilizes and Biopesticides**” by **Krishnendu Acharya**, Surjit Sen and Manjula Rai; Publisher: Techno World, Kolkata 700 007, 2019
2. “**Competitive Botany**”, by **Krishnendu Acharya** and Saikat Basu; Publisher: New Age International (P) Limited, New Delhi
3. “**Banglar Bhojyo Chatu**” (Edible Mushrooms of West Bengal) by **Krishnendu Acharya**; Publisher: West Bengal Biodiversity Board, West Bengal
4. “**Common Wild Mushrooms of West Bengal**” by **Krishnendu Acharya** and Prakash Pradhan; Publisher: West Bengal Biodiversity Board, West Bengal, Kolkata, 2017

Book chapters

1. **Krishnendu Acharya**, Medicinal properties of mushroom, In: *Advances in Medicinal Plant Research*, Eds By: Acharya S. N., Thomas J. E., Published by Research Signpost, Kerala, India, pp. 215 – 236, 2007.
2. Surjit Sen and **Krishnendu Acharya**, *Mechanisms of Biological Control of Plant Diseases*, In: Environment Education: Global Issues and Policies, Eds. S. K. Basu and S. D. Banik, A.P.H. Publishing Corporation, New Delhi, **1**: 178-199, 2009
3. **Krishnendu Acharya**, Joy Sarkar and Sidhartha Singh Deo, Mycosynthesis of Nanoparticles. In: *Advances in Biotechnology*, Ed By: Bhowmik P. K., Basu S. K., Goyal A., Published by Bentham eBooks, pp. 204-215, 2009
4. Surjya N. Acharya, Saikat Basu, Krishnendu Acharya, Santanu Paul, Datta Banik, S. and Prasad, R. Fenugreek: A spice, forage and nutraceutical crop. In: De. A. K. (edited) *Spices: The elixir of life. Originals*, Delhi, India. Chapter 7. pp. 129-150, 2011.
5. Manjula Rai, G. Biswas, S. C. Mandal and **Krishnendu Acharya**. Free radicals and human disease. In: **Herbal Drugs**, Edited by: Subhash C. Mandal. New Central Book Agency (P) Ltd. Kolkata, pp. 479 – 496, 2011
6. **Prakash Pradhan** and Krishnendu Acharya. Impact of climate change on diversity and distribution of fungal community. In *Climate change Man and Environment*. Edited by Goutam K. Saha. Daya Publishing House, New Delhi. Pp 111-120, 2012.
7. Nilanjan Chakraborty, Namrata Shanu Gupta, Saikat K. Basu and **Krishnendu Acharya**, Postharvest Damages of Mandarin (*Citrus reticulata* Blanco) and Its Management. In: *Biological Controls for Preventing Food Deterioration: Strategies for Pre-and Postharvest Management*. Ed. by Neeta Sharma; John Wiley & Sons, UK, PP. 27 – 40, 2014.

8. Anik Sarkar and Krishnendu Acharya, A Silent Battle, In: Integrated Management of Crop Diseases, Ed by: Chourasia H.K. & Choudhary S.K., Published by: Today and Tomorrow's Printer and Publishers, New Delhi. Pp. 113-123, 2018.
9. Arun Kumar Dutta and **Krishnendu Acharya**, Barcoding DNA- A Tool for Molecular Identification of Macrofungi, In: ADVANCES IN MACROFUNGI-Diversity, Ecology and Biotechnology, Kandikere R. Sridhar and Sunil K. Deshmukh (eds.), pp. 323 -324, 2019, CRC Press, Taylor & Francis Group, ISBN 978-1-138-58727-4

Extramural Research grant

Sl. No.	Title	Agency	Period	Grant/ Amount Mobilized (Rs.)
1	Studies on Diversity and Ecology of macro-fungi in Tarai and Doars of West Bengal	Department of Environment, Govt. of West Bengal.	2017 - 2019	16,00,000
2	Assessment on the molecular mechanisms behind the anticancer effect of two new triterpenes from mushrooms on Hepatocellular Carcinoma cells.	Department of Biotechnology, Govt. of West Bengal.	2014 - 2017	32,23,200
3	Biodiversity Register: A step towards access and benefit sharing	Department of Environment, Govt. of West Bengal.	2014 - 2015	9,96,240
4	Studies on Diversity and Ecology of macro-fungi in Gangetic Plane of West Bengal	Department of Environment, Govt. of West Bengal.	2014 - 2017	21,50,000
5	Bioprospecting of wild edible mushroom under <i>Russula</i> genus of lateritic West Bengal	Department of Environment, Govt. of West Bengal.	2013 - 2014	9,90,880

6	The hunt for wild mushrooms of ethnic medicine systems used by different tribal populations in West Bengal: Searching the new source of antilishmanial agents with specific challenge against drug-resistant strain	ICMR, New Delhi	2012 - 2015	38,00,000
7	Studies on Diversity and Ecology of macro-fungi in Himalayan Hill Region of West Bengal	Department of Environment, Govt. of West Bengal.	2012 - 2014	15,23,000
8	Studies on diversity and ecology of macro fungi in coastal region of W.B.	Department of Environment, Govt. of West Bengal.	2010-2012	10,92,000
9	In vitro selection of resistant <i>Withania somnifera</i> and <i>Rauvolfia serpentina</i> against leaf blight disease caused by <i>Alternaria</i> spp. via. tissue culture.	West Bengal State Council of Science & Technology.	2009-2012	19,66,000
10	Studies on diversity and ecology of macro fungi in laterite zone of W.B.	Department of Environment, Govt. of West Bengal.	2007-2009	5,60,000
11	Assessment of bioactivity of some locally available medicinal and aromatic plants in management of pest and diseases of medicinal plants in West Bengal	Directorate of Food Processing Industries & Horticulture, Govt. of West Bengal.	2006-2008	6,50,000
12	Diversity of Agaricales at Sikkim Himalaya	Ministry of Environment and Forests, Govt. of India	2005-2008	7,67,740

Patents

1. Indian Patent No- 187158. (Patent Application No. 966/Cal/98), by **Krishnendu Acharya** and Rupa Acharya, on- Production and purification of acid phosphatase from *Chloridium sp* by submerged fermentation.
2. Indian Patent Application No. 14 45/Kol/2011, Dt. 11.11.2011, by Nandan Bhattacharya, Anupam Roy, Anjan Misra and **Krishnendu Acharya**, on – An Instant Soup Powder.

Honours/ Awards

1. Fellow of the Linnean Society of London, 2019
2. Fellow of West Bengal Academy of Science and Technology, 2019
3. Fellow of Mycological Society of India, 2018
4. Prof. K. Natarajan Memorial Award by Mycological Society of India (MSI), 2017
5. Ranked 1st among top 100 authors of state universities of India based on Indian Citation Index (ICI) 2016 by Confederation of Indian Industry (CII).
6. Honored for Global Achievement in the Field of Phyllosphere Biology in The International Conference on “Perspective in Phyllosphere Biology”, 2012.
7. Patel Memorial Award by World Congress of Clinical Nutrition, Egypt, 2010
8. Fellow of International College of Nutrition (FICN), Canada, 2009

Membership in scientific bodies

1. Life member of “Indian Science Congress Association (I.S.C.A.)”
2. Life member of “Society for Biological Chemists-India (S.B.C.I.)”
3. Life member of “Indian Mycological Society (I.M.S.)”.
4. Life member of “Society for Biocontrol Advancement (S.B.A.)”
5. Life member of “Social Environmental and Biological Association (S.E.B.A.)”
6. Life member of “Botanical Society of Bengal (B.S.B.)”
7. Life member of “Mycological Society of India (MSI)”

Editor/ Editorial Board Member

1. Academic Editor of *PLoS One*
2. Associate Editor of the *Journal of Environment and Sociobiology*.