

## LIST OF PUBLICATIONS - NIPER KOLKATA

1. U. Pal, M. Maity, N. Khot, S. Das, S. Das, S. Dolui, N. C Maiti. Statistical insight of binding regions in disordered human proteome, **J. Proteins and Proteomics** **2016**, *7* 47-60.
2. B. Chakraborty, N. V. Sejjal, P. V. Paygan, N. Ghosal, J. Sengupta. Structure-based designing of sordarin derivative as potential fungicide with pan-fungal activity, **Journal of Molecular Graphics and Modelling** **2016**, *66*, 133–142. **[Impact factor: 1.95]**
3. A. Kumar, S. Roy Chowdhury, T. Sarkar, T. Chakrabarti, H. K. Majumder, T. Jha, S. Mukhopadhyay. “A New bisbenzylisoquinoline alkaloid isolated from *Thalictrum foliolosum*, as a potent inhibitor of DNA Topoisomerase IB of *Leishmania donovani*”, **Fitoterapia** **2016**, *109*, 25-30. **[Impact factor: 2.345]**
4. S. Chattopadhyay, A. Haresh G. Basu, Effect of introducing Aib in a designed helical inhibitor of Hdm2- p53 interaction: A molecular dynamics study, **Biopolymers**. **2016**, *106*, 51-61, doi: 10.1002/bip.22761. **[Impact factor 2.385]**
5. V. K. Gupta, N. M. Chaudhari, S. Iskepalli and C. Dutta, Divergences in gene repertoire among the reference Prevotella genomes derived from distinct body sites of human, **Gupta et al. BMC Genomics** **2015**, *16*, DOI **10.1186/s12864-015-1350-6**. **[Impact factor 3.986]**
6. S. Nath Das, A. Chowdhury, N. Tripathi, P. K. Jana S. B. Mandal, Exploitation of in situ generated sugar-based olefin keto-nitrone: synthesis of carbocycles, heterocycles and nucleoside derivatives; **J. Org. Chem.** **2015**, *80*, 1136–1148. **[Impact factor: 4.72]**
7. Y.P. Bharitkar, M. Das, N. Kumari, M. Padma Kumari, A. Hazra, S., S. Bhayye, Ramalingam Natarajan, Siddharth Shah, Sourav Chatterjee, and Nirup B. Mondal. Synthesis of Bis-pyrrolizidine-Fused Dispiro-oxindole Analogues of Curcumin via One-Pot Azomethine Ylide Cycloaddition: Experimental and Computational Approach toward Regio- and Diastereoselection. **Organic Letters** **2015**, *17*, 4440–4443. **[Impact factor: 6.36]**
8. Y. P. Bharitkar, A. Hazra, S. Shah, S. Saha, A. K. Matoori & N. B. Mondal. New flavonoid glycosides and other chemical constituents from *Clerodendrum phlomidis* leaves: isolation and characterisation, **Natural Product Research** **2015**, *29*, 1850-1856, DOI: 10.1080/14786419.2015.1009457. **[Impact factor: 0.92]**
9. Y. P. Bharitkar, S. Kanhar, N. Suneel, S. K. Mondal, A. Hazra, N. B. Mondal, Chemistry of withaferin-A: chemo, regio, and stereoselective synthesis of novel spiro-pyrrolizidino-oxindole adducts of withaferin-A via one-pot three-component [3+2] azomethine ylide cycloaddition and their cytotoxicity evaluation **Mol. Divers** **2015**, *19*:251–261. **[Impact factor: 1.896]**
10. T. Y. Chaudhari, A. Hossian, M. K. Manna and R. Jana. Chemo-, regio-, and stereoselective Heck–Matsuda arylation of allylic alcohols under mild conditions. **Organic and Biomolecular Chemistry** **2015**, *13*, 4841. **[Impact factor: 3.56]**
11. S. Das, D. Singh, M. Madduluri, M. M. Chandrababunaidu, A. Gupta, S. P. Adhikary, S. Tripathy. Draft Genome Sequence of Bioactive-Compound-Producing Cyanobacterium *Tolypothrix campylonemoides* Strain VB511288. **Genome Announc.** **2015** Apr 2;3[2]. pii: e00226-15. doi: 10.1128/genomeA.00226-15. PubMed PMID: 25838485

12. A. Das, A. Panda D. Singh, M. M. Chandrababunaidu, G. P. Mishra, S. Bhan, S. P. Adhikary, S. Tripathy. Deciphering the Genome Sequences of the Hydrophobic Cyanobacterium *Scytonema tolypotherichoides* VB-61278. **Genome Announc.** **2015** Apr 2;3[2]. pii: e00228-15. doi: 10.1128/genomeA.00228-15.
13. Kumar, D., Tejaswi, C., Rasamalla, S., Mallick, S., Pal, B.C. Bio-assay Guided Isolation of Anti-cancer Compounds from *Anthocephalus cadamba* Bark. **Natural Product Communications** **2015**, 10, 1349-1350. [Impact factor: 0.906].
14. K. Mal,‡ A. Kaur,‡ F. Haque, I. Das, PPh3.HBr-DMSO: A Reagent System for Diverse Chemoselective Transformations *The Journal of Organic Chemistry [Article]*, **2015**, 80, 6400-6410. [‡These authors contributed equally] **One of the Top 20 most read articles [most downloaded articles] in the month of May, 2015.** [Impact factor: 4.72]
15. J. Majumder, P. Yedoti, P. Dastidar. A supramolecular topical gel derived from a not steroidal anti-inflammatory drug, fenopufen, is capable of treating skin inflammation in mice, **Organic and Bioorganic Chemistry** **2015**, 13, 2300-2309. [Impact factor: 3.56]
16. P. Manoharan, K. Chennouju and N. Ghoshal. Target specific proteochemometric model development for BACE1–protein flexibility and structural water are critical in virtual screening, **Mol. BioSyst.**, **2015**, DOI: 10.1039/C5MB00088B. [Impact factor: 3.21]
17. A. Kumar, S. Roy Chowdhury, K. K. Jatte, T. Chakrabarti, H. K. Majumdar, Tarun Jha, S. Mukhopadhyay. “Anthocephaline, A New Indole Alkaloid and cadambine, A potent Inhibitor of DNA Topoisomerase IB of *Leishmania donovani* [LdTOP1LS] Isolated from *Anthocephalus cadamba* [Roxb.] Miq” **Natural Product Communications** **2015**, 10, 297-299. [Impact factor: 0.906]
18. S. N. Das, R. Rana, S. Chatterjee, G. Suresh Kumar and S. B. Mandal, Ring-closing metathesis and glycosylation reactions: synthesis and biophysical studies of polyether-linked carbohydrate-based macrocyclic nucleosides; **J. Org. Chem.** **2014**, 79, 9958–9969. [Impact factor: 4.72]
19. A. Kumar, S. Roy Choowdhury, T. Chakrabarti, T. K Majumdar, T. Jha, S. Mukhopadhyay, “A New Ellagic Acid Glycoside and DNA Topoisomerase IB Inhibitory Activity of Saponins from *Putranjiva roxburghii*” **Natural Product Communications** **2014**, 9, 675-677. [Impact factor: 0.906]
20. S. K. Dokuparthi, N. Banerjee, A. Kumar, V. Singamaneni, A. K. Giri, S. Mukhopadhyay, “Phytochemical Investigation and Evaluation of Antimutagenic Activity of Extract of *Cuscuta reflexa* Roxb by Ames Test” **International Journal of pharmaceutical Sciences and Research** **2014**, 5, 1000-1004. . [Impact factor: 1.79]
21. S. Nath Das, P. Krishna K and S. B. Mandal, Synthesis of monoglycosides, bisglycosides and open-chain ketoacetals from sugar derived exocyclic enol ethers; **RSC Advances**, **2014**, 4, 29542–29548. [Impact factor: 3.84]
22. S. Chatterjee, P. Bhattacharjee, J. Temburu, D. Nandi, P. Jaisankar. Indium trichloride catalyzed sp<sup>3</sup>C–H bond functionalization of 2-alkyl azaarenes under microwave irradiation. **Tetrahedron Letters** **2014**, 55, 6680-6683 [Impact factor: 2.38]
23. Saini, P., Gayen, P., Kumar, D., Nayak, A., Mukherjee, N., Mukherjee, S., Pal, B. C., Sinha Babu S.P. Antifilarial effect of ursolic acid from *Nyctanthes arbortristis*: molecular and biochemical evidences. **Parasitology International** **2014**, 63, 717-728. [Impact factor: 1.860].

24. Saini, P., Mukherjee, N., Mukherjee, S., Roy, P., Gayen, P., Kumar, D., Pal, B.C., Babu, S.P.S. *Diospyros perigrana* barks extract induced apoptosis in filarial parasite *Setaria cervi* through generation of reactive oxygen species. **Pharmaceutical Biology** 2014, 53, 813-823. [Impact factor: 1.241].
25. Das, R., Bhattacharya, K., Samanta, S.K., Pal B.C., Mandal, C. Improved chemosensitivity in cervical cancer to cisplatin: synergistic activity of mahanine through STAT3 inhibition. **Cancer Letters** 2014, 351, 81-90 [Impact factor: 5.621].
26. Bhattacharya K, Bag A.K., Tripathi R, Samanta S.K., Pal B.C., Shaha C, Mandal, C. Mahanine, a novel mitochondrial complex-III inhibitor induces G0/G1 arrest through redox alteration-mediated DNA damage response and regresses glioblastoma multiforme. **American Journal of Cancer Research** 2014. 4, 629-647 [Impact factor: 4.165].
27. Das, R., Bhattacharya, K., Sarkar, S., Samanta, S.K., Pal B.C., Mandal, C. Mahanine synergistically enhances cytotoxicity of 5-fluorouracil through ROS-mediated activation of PTEN and p53/p73 in colon carcinoma. **Apoptosis** 2014, 19, 149-164 [Impact factor: 3.592].
28. S. K. Samanta, D. Dutta, S. Roy, K. Bhattacharya, S. Sarkar, B. C. Pal, C. N. Mandal, Anjan K. Dasgupta and C. Mandal [2013] Mahanine, a DNA minor groove binding agent exerts cellular cytotoxicity with involvement of C-7-OH and -NH functional groups. **Journal of Medicinal Chemistry** 2013 56, 5709-21. [Impact factor 5.45]
29. P. Deb Barman, D. Goyal, U. K. Daravath, I. Sanyal, S. B. Mandal, A. K. Banerjee, A simple entry to sugar derived bispiropyrrolidines through non-stabilized azomethine ylides; **Tetrahedron Letters**, 2013, 54, 3801-3804. [Impact factor: 2.38]
30. Kumar, D., Ghosh, R., Pal, B. C.  $\alpha$ -Glucosidase inhibitory terpenoids from *Potentilla fulgens* L. and their quantitative estimation by validated HPLC method. **Journal of Functional Foods** 2013, 5, 1135-1141. [Impact factor: 3.973].
31. Kumar, D., Gupta, N., Ghosh, R., Gaonkar, R. H., Pal, B. C.  $\alpha$ -Glucosidase and  $\alpha$ -amylase inhibitory constituent of *Carex baccans*: Bio-assay guided isolation and quantification by validated RP-HPLC-DAD. **Journal of Functional Foods** 2013, 5, 211-218. [Impact factor: 3.973].
32. Mallick, S., Pal, B. C., Kumar, D., Chatterjee, N., Saha, K. D. Effect of corchorusin-D, a saikosaponin like compound, on B16F10 melanoma cells [*in vitro* and *in vivo*]. **Journal of Asian Natural Products Research** 2013, 15, 1197-1203. [Impact factor: 1.009].
33. Sarkar, S., Dutta, D., Samanta, S.K., Bhattacharya, K., Pal, B.C., Li, J., Datta, K., Mandal, C.N. Mandal, C. Oxidative inhibition of Hsp90 disrupts the super-chaperone complex and attenuates pancreatic adenocarcinoma *in vitro* and *in vivo*. **International Journal of Cancer** 2013, 132, 695-706. [Impact factor: 5.531].
34. Kumar, D., Datta, S., Gaonkar, R. H., Roy, S. S., Vedasiromoni, J. R., Ghosh, R., Pal, B. C. Bioactivity-guided isolation and quantification of anti-diabetic principle in *Holarrhena antidysenterica* L. [Wall], *in-vitro*. **Journal of Herbs, Spices & Medicinal Plants** 2013, 19, 54-63.
35. Kumar, D., Shah, V., Ghosh, R., Pal, B. C. A new triterpenoid saponin from *Glinus oppositifolius* with  $\alpha$ -glucosidase inhibitory activity. **Natural Product Research** 2013, 27, 624-630. [Impact factor: 0.919].

36. S. Mukherjee, P. N Tripathy and S. B Mandal; Allyloxy and propargyloxy group migration: role of remote group participation in the synthesis of 5-C-nucleosides and other sugar derivatives; **Organic Letters** **2012**, 14, 4186-4189. [Impact factor: 6.36]
37. S. Sarkar, D. Dutta, S.K Samanta, K. Bhattacharya, B.C Pal, J. Li, K. Datta, C.N. Mandal, and C. Mandal [2013] Redox sensitive inhibition of Hsp90 coupled with disruption of super-chaperone complex attenuate pancreatic adenocarcinoma in vitro and in vivo. **International Journal of Cancer**, 132, 695-706. doi: 10.1002/ijc.27687. Epub **2012** Jul 9. **One figure has been selected for cover page of the journal.** [Impact factor 5.085]
38. Saini, P., Gayen, P., Nayak, A., Kumar, D., Mukherjee, N., Pal, B. C., Sinha Babu S. P. Effect of ferulic acid from *Hibiscus mutabilis* on filarial parasite *Setaria cervi*: Molecular and biochemical approaches. **Parasitology International** **2012**, 61, 520-531. [Impact factor: 1.860].
39. Mallick, S., Pal, B. C., Vedasiromoni, J. R., Kumar, D., Saha, K. D. Corchorusin-D directed apoptosis of K562 cells occurs through activation of mitochondrial and death receptor pathways and suppression of AKT/PKB pathway. **Cellular Physiology and Biochemistry** **2012**, 30, 915-926. [Impact factor: 4.652].
40. D. Nandi, S. Elizabeth Besra, J. Rajan Vedasiromoni, V. Sesha Giri, P. Rana, P. Jaisankar. Anti-leukemic activity of *Wattakaka volubilis* leaf extract against human myeloid leukemia cell lines. **Journal of Ethnopharmacology** **2012**, 144, 466-473. [Impact factor: 2.99]
41. R. S. K. Vijayan, N. Trivedi, S. Nath Roy, I. Bera, P. Manoharan, P. V. Payghan, D. Bhattacharyya, N. Ghoshal, "Modeling the closed and open state conformations of the GABAA ion channel - Plausible structural insights for channel gating," **Journal of Chemical Information and Modeling** **2012**, 52, 2958-69. [Impact factor: 4.675]
42. Kumar, D., Kumar, H., Vedasiromoni, J. R., Pal, B. C. Bio-assay guided isolation of  $\alpha$ -glucosidase inhibitory constituents from *Hibiscus mutabilis* leaves. **Phytochemical Analysis** **2012**, 23, 421-425. [Impact factor: 2.341].
43. Kumar, D., Gaonkar, R. H., Ghosh, R., Pal, B. C. Bio-assay guided isolation of  $\alpha$ -glucosidase inhibitory constituents from *Eclipta alba*. **Natural Product Communications** **2012**, 7, 989-990. [Impact factor: 0.906].
44. T. Mukherjee, S. Chowdhury, A. Kumar, H. K Majumder, Parasuraman Jaisankar, Sibabrata Mukhopadhyay, "Saracoside: A New Lignan Glycoside from *Saraca indica*, a Potential Inhibitor of DNA Topoisomerase IB". **Natural Product Communications** **2012**, 7, 767-769. [Impact factor: 0.906]
45. S. Samanta, D. Dutta, A. Ghoshal, S. Mukhopadhyay, B. Saha, S. Sundar, S. Jarmalavicius, M. Forger, C. N. Mandal, P. Walden, C. Mandal. Glycosylation of Erythrocyte Spectrin and Its Modification in Visceral Leishmaniasis. **PLoS ONE** **2011**, 6, e28169. [Impact factor 3.23]
46. R. Kumari, A. Meyyappan, D. Nandi, B. K. Agrawalla, A. Acharya Chowdhury, P. Selvamani, S. Latha, V. Sesha Giri, J. Mukherjee, S. Bandyopadhyay, P. Jaisankar. Antioxidant and antibacterial activities of bark extracts from *Commiphora berryi* and *Commiphora caudata*. **Natural Product Research** **2011**, 25, 1454-1462. [Impact factor: 0.92]
47. Kumar, D., Mallick, S., Vedasiromoni, J. R., Pal, B. C. Anti-leukemic activity of *Dillenia indica* L. fruit extract and quantification of betulinic acid by HPLC. **Phytomedicine** **2010**, 17, 431-435. [Impact factor: 3.126].