

## CURRICULUM VITAE



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➤ **Area of Teaching:**

Heavy Metal Accumulation, Gold Nanoparticles, Endophytes, Antibacterial Activity, volatile antimicrobial, Vibrio cholerae, Silver Nanoparticles, Antibacterials

➤ **List of research papers published:**

- i) Sk Imadul Islam, suvendu bikash das, Sutapa Chakrabarty, Sudeshna Hazra, Akhil Pandey, Animesh Patra: *Synthesis, Characterization, and Biological Activity of Nickel (II) and Palladium (II) Complex with Pyrrolidine Dithiocarbamate (PDTC).*
- ii) Souti Khatua, Akhil Pandey, Surjyo Jyoti Biswas, Correspondence Surjyo, Jyoti Biswas: *Phytochemical evaluation and antimicrobial properties of Trichosanthes dioica root extract.*
- iii) Haradhan Kolya, Parthapratim Maiti, Akhil Pandey, Tridib Tripathy: *Green synthesis of silver nanoparticles with antimicrobial and azo dye (Congo red) degradation properties using Amaranthus gangeticus Linn leaf extract.* 12/2015; 6(1)., DOI:10.1186/s40543-015-0074-1
- iv) Subhadip Das, Akhil Pandey, Sagar Pal, Haradhan Kolya, Tridib Tripathy: *Green synthesis, characterization and antibacterial activity of gold nanoparticles using hydroxyethyl starch-g-poly (methylacrylate-co-sodium acrylate): A novel biodegradable graft copolymer.* Journal of Molecular Liquids 12/2015; 212:259-265., DOI:10.1016/j.molliq.2015.09.020
- v) Akhil Pandey, Debdulal Banerjee: *Daldinia bambusicola Ch4/11 an Endophytic Fungus Producing Volatile Organic Compounds Having Antimicrobial and Olio Chemical Potential.*
- vi) Subhadip Das, Dinabandhu Sasmal, Sagar Pal, Haradhan Kolya, Akhil Pandey,

- Tridib Tripathy: *Starch based biodegradable graft copolymer for the preparation of silver nanoparticles*. International journal of biological macromolecules 07/2015; 81., DOI:10.1016/j.ijbiomac.2015.07.046
- vii) Haradhan Kolya, Sagar Pal, Akhil Pandey, Tridib Tripathy: *Preparation of gold nanoparticles by a novel biodegradable graft copolymer sodium alginate-g-poly (N,N-dimethylacrylamide-co-acrylic acid) with anti micro bacterial application*. European Polymer Journal 05/2015; 66., DOI:10.1016/j.eurpolymj.2015.01.035
- viii) Madhumita Hazra, Tanushree Dolai, Akhil Pandey, Subrata Kumar Dey, Animesh Patra: *Synthesis and Characterisation of Copper(II) Complexes with Tridentate NNO Functionalized Ligand: Density Function Theory Study, DNA Binding Mechanism, Optical Properties, and Biological Application*. Bioinorganic Chemistry and Applications 10/2014; 2014:104046., DOI:10.1155/2014/104046
- ix) Madhumita Hazra, Tanushree Dolai, Akhil Pandey, Subrata Kumar Dey, Animesh Patra: *Fluorescent copper (II) complexes: The electron transfer mechanism, interaction with Bovine serum albumin (BSA) and antibacterial activity*. Journal of Saudi Chemical Society 03/2014; 43(S1), DOI:10.1016/j.jscs.2014.02.009
- x) Madhumita Hazra, Tanushree Dolai, Akhil Pandey, Subrata Kumar Dey, Animesh Patra: *Synthesis and Characterization of Four Coordinated Palladium (II) Complex with N2O Donor Schiff Base: Interaction with Calf Thymus-DNA, Density Functional Theory Study and Antibacterial Activity*. 12/2013; 1(2), DOI:10.1166/jcbi.2013.1013
- xi) Madhumita Hazra, Tanushree Dolai, Akhil Pandey, Subrata Kumar De, Animesh Patra: *Electrochemical Study of Hexa Coordinated Ni (II) and Co (II) Complexes with N2 O-Donor Sets: Synthesis, Characterization, Interaction with Calf Thymus-DNA and Antibacterial Activity*. 08/2013; 1(2), DOI:10.1166/adel.2013.1026
- xii) Animesh Patra, Buddhadeb Sen, Sandipan Sarkar, Akhil Pandey, Ennio Zangrando, Pabitra Chattopadhyay: *Nickel(II) complexes with 2-(pyridin-3-ylmethylsulfanyl)phenylamine and halide/pseudohalides: Synthesis, structural characterisation, interaction with CT-DNA and bovine serum albumin, and antibacterial activity*. Polyhedron 03/2013; 51(1), DOI:10.1016/j.poly.2012.12.031
- xiii) Debdulal Banerjee, Akhil Pandey, Maloy Jana, Gary Strobel: *Muscodor albus MOW12 an Endophyte of Piper nigrum L. (Piperaceae) Collected from North East India Produces Volatile Antimicrobials*. Indian Journal of Microbiology 03/2013; 54(1), DOI:10.1007/s12088-013-0400-5
- xiv) Akhil Pandey, Debdulal Banerjee: *Biosorption of Cadmium (II) using Discarded Biomass of Aspergillus aculeatus DBF9*.