

8th International Conference on
TISSUE SCIENCE AND REGENERATIVE MEDICINE
September 11- 12, 2017 Singapore

Biological potent heteroaryl ketone Schiff base and thorium(IV) complexes of 2-benzoaminothiazole**Neelima Mishra**

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Metal-based antioxidants has received effort in order to identify the compounds having high free radical scavenging capacity related to various disorders and diseases associated with oxidative damage due to reactive oxygen species (ROS). Two mononuclear Th(IV) complexes were derived from 2,3-dihydro-1H-indolo[2,3-b] phenazine-4(5H)-ylidene benzothiazole-2-amine (L1) and 3-(ethoxymethylene)- (2,3-dihydro-1H-indolo [2,3-b] phenazine-4(5H)-ylidene) benzothiazole-2-amine (L2) with properties of pharmacologically interest. The compounds were characterized by elemental analyses, molar conductance, magnetic susceptibility measurements, FTIR, UV-Vis, ¹H NMR, TGA and XRD studies. In both complexes 2:1 ligand-to-metal ratio has been observed. Ligands and metals complexes showed antimicrobials and antioxidants activities. Antioxidant property is shown by DPPH and H₂O₂ Scavenging methods. Antimicrobial activities against *E. coli*, *S. aureus* bacteria and *C. tropicalis*, *A. niger* by test tube method.

Biography

Neelima Mishra has completed her PhD from Banasthali University, India. She is the Assistant Professor of Sanskriti University Mathura, India. She has published more than 15 papers in reputed journals, written two books and has been serving as an Editorial Board Member of national journal. Her research work mainly focuses on syntheses and biological potent of Schiff base metal complexes of La(III), Ce(III) and Th(IV) and syntheses of natural and synthetic polymers. She is the Member of India Science Congress, Chemical Teacher Association, Indian Chemical Society, Royal Society of Chemistry and American Chemical Society.

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