



**Dr. Kirandeep kaur**

**Email kirandeep.kaur961@gmail.com**

**Mobile : 09468302416, 09780935500**

Vidwan-ID : 211055

### **PAPERS PRESENTED IN CONFERENCES (NATIONAL/ INTERNATIONAL)**

1. Development of a novel face capping TREN based tripodal chemosensor for Fe(III)  
**Kirandeep Kaur**, Minati Baral, B.K Kanungo, 17<sup>th</sup> annual conference of Indian council of chemists at Panjab University Chandigarh- dec19-21, 2010.
2. Development of a highly selective tripodal ligand for trivalent Fe(III) and Cr(III) metal ions.  
Amit Gupta, **Kirandeep Kaur**, Minati Baral, B.K Kanungo, 14<sup>th</sup> Punjab Science Congress held at SLIET, Longowal on Feb-7-9, 2011.
3. Design and synthesis of TREN capped tripodal ligand with glycine as a spacer unit: an analog of natural siderophore Bacillibactin. **Kirandeep Kaur**, Minati Baral, B.K Kanungo, National Seminar on Frontiers in Polymer Science held at HPU Shimla on Nov- 10-12, 2011.
4. Design and synthesis of TREN capped tripodal ligand with alanine and phenyl alanine as spacer unit: analogs of natural siderophore Bacillibactin, **Kirandeep Kaur**, Minati Baral, B.K Kanungo, Chemical Constellation Cheminar an international conference held at NIT, Jalandhar Sep-10-12, 2012 ( **BEST POSTER AWARD**).
5. Synthesis of two benzene based novel tripodal ligands: studies with Fe(III) metal ion.  
Amit Gupta, **Kirandeep Kaur**, Minati Baral, B.K Kanungo, Chemical Constellation Cheminar an International Conference held at NIT, Jalandhar Sep-10-12, 2012 .
6. Synthesis, theoretical studies of a novel imine naphthol ligand and its complexation with trivalent metal ion. **Kirandeep Kaur**, Minati Baral, B.K Kanungo, National Conference GC: NFCS held at Kurukshetra University on Oct-22-23, 2012.
7. Synthesis , theoretical studies of amine-naphthol tripodal ligand and its complexation with Fe(III). **Kirandeep Kaur**, Minati Baral, B.K Kanungo. Research scholar's Day 2012, IIST, Thiruvananthapuram. 17-18 December 2012.
8. Design and synthesis of TREN capped tripodal analogues of siderophore Bacillibactin and comparison of their chelating abilities towards Fe(III) metal ion. **Kirandeep Kaur**, Minati Baral 5<sup>th</sup> National Seminar on "New frontiers in Chemistry" Punjabi University Patiala February 15-16, 2013.
9. Synthesis of a novel imine –naphthol tripodal ligand and its complexation with Fe (III), Al(III) & Cr(III), **Kirandeep Kaur**, Minati Baral, B.K Kanungo International Conference on Recent Advances in Chemical Sciences to be held in Department of Chemistry, Arya P.G. College, Panipat, Haryana, INDIA from February 24-26, 2013.

10. Design, synthesis of tripod ligands with alanine and phenyl alanine as the spacer units and comparison of their coordination behavior towards Fe(III).(pp-30) **Kirandeep Kaur**, Minati Baral NCIMS F -2013 at Thapar University Patiala., October 24-26, 2013 .
11. Spectrophotometric and Potentiometric evaluation of coordination behavior of two  $\alpha$ -amino acid based tridentate ligands with Fe(III) metal ion.( 72 ) **Kirandeep Kaur**, Minati Baral . 6<sup>th</sup> National conference on recent advances in chemical and environmental sciences. Multani Mal Modi College ,Patiala. November 13-14, 2013.

## PAPERS IN INTERNATIONAL JOURNALS

1. Synthesis of Imine-Naphthol Tripodal Ligand and Study of Its Coordination Behaviour towards Fe(III), Al(III), and Cr(III) Metal Ions, *Journal of bioinorganic chemistry and its applications*, 2014:915457, (2014)
2. Ability of two novel  $\alpha$ -amino acid-based tridentate ligands to complex Fe<sup>3+</sup> in solution, [\*Research on Chemical Intermediates\*](#) volume 41, 5635–5648, (2015)
3. Removal of acid violet 19 dye from aqueous solution using saw dust of indian rooswood as adsorbent, *Environment and we: an international journal of science and technology*, 14, 49-64, (2019)
4. Study of a tripodal biomimetic siderophore analog: an efficient encapsulation for Fe (III) ion, *Iranian journal of chemistry and chemical engineering* 39(3) 241-256, (2020)
5. Synthesis, characterization and visible light induced light..... Alizarin red S, *Water environment research*, 92(9), 1376-1387, (2020)