

**Kirandeep kaur**

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CAREER OBJECTIVE

To work as a successful professional in a challenging and dynamic environment and to keep adding value to the organization that I represent and serve, while concurrently upgrading my skills and knowledge.

EDUCATIONAL QUALIFICATION

Examination	Board/University
Matric	C.B.S.E
Senior secondary	C.B.S.E
B.Sc(N.M)	Punjabi Uni. Patiala
M.Sc (Chemistry)	Panjab Uni. Chandigarh
Ph D (Chemistry)	NIT, Kurukshetra
NET (Chemistry)	CSIR (2009)

TECHNICAL SKILLS**EQUIPMENT SKILL**

- UV-VIS Spectrophotometer. (Diode array biophotometer make Hitachi Model U0080D) and similar instruments.
- P^H Meter and Conductivity Meter.(Hach)
- Infra red spectrometer.(Agilent technologies)
- Fluorescence Spectrophotometer (Agilent technologies)

- Simultaneous Thermal Analyzer.
- C, H, N, S, O Analyzer. (Thermo Fisher scientific)
- Rotary Evaporator.(Buchi)
- Maintenance of Electrical balance and other instruments.

SOFTWARE SKILLS

- HYPERCHEM (A Computational Package)
- Gaussian (DFT calculations)
- Cache (A Computational Package)
- SYMYX draw, Chem Draw (Chemical Drawing Packages)
- HYPERQUAD (Equilibrium Constant Calculating Software using potentiometric data)
- PHAB (Equilibrium Constant Calculating Software using Spectrophotometric data)
- Ms-Office

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, 17th 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, 14th 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 5th 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 NCIMSF -2013 at Thapar University Patiala., October 24-26, 2013 .
11. Spectrophotometric and Potentiometric evaluation of coordination behavior of two α -amino acid based tridentate ligands with Fe(III) metal ion.(72) **Kirandeep Kaur**, Minati Baral . 6th 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. Kirandeep Kaur and Minati Baral* Bioinorganic chemistry and its applications DOI:10.1155/2014/915457
2. Ability of two novel α -amino acid-based tridentate ligands to complex Fe³⁺ in solution. Kirandeep Kaur and Minati Baral* Research on chemical intermediates DOI 10.1007/s11164-014-1689-3.
3. Synthesis and studies on coordination behaviour of a novel tripodal analog of a natural siderophores, Bacillibactin with trivalent iron Kirandeep Kaur and Minati Baral* Arabian Journal of Chemistry, Elsevier (accepted)
4. Design, synthesis and thermodynamic properties of imine-quinolinol C₃- symmetric impudent tripodal siderophores analogue and study of its coordination behaviour towards Fe (III), Al (III) and Cr (III) metal ions Kirandeep Kaur and Minati Baral* Spectrochimica Acta Part A. Elsevier (accepted)