

BIO-DATA

Dr. Manmohan Lal Satnami

*M. Sc., M. Phil., Ph.D., CSIR-NET (Chemistry)
TWAS-CNPq Postdoctoral Fellow (Brazil)*

Assistant Professor

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PERSONAL DETAILS:

- 1. Name** : **Dr. Manmohan Lal Satnami**
Assistant Professor
School of Studies in Chemistry,
Pandit Ravishankar Shukla University,
Raipur, (Chhattisgarh), 492010
- 2. Father's Name** : Shri Ghasiya Ram Satnami

3. **Mother's Name** : Smt. Parwati Satnami
4. **Date of Birth** : 01.06.1975
5. **Residential Address** : L-6, Teachers Colony,
Pt. Ravishankar Shukla University Campus,
Raipur, (Chhattisgarh), 492010.
6. **Contact Address** : L-6, Teachers Colony,
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State- Chhattisgarh, Pincode: 490001
7. **Gender** : Male
8. **Marital Status** : Married
9. **Nationality** : Indian
10. **Language Known** : Hindi & English
11. **Blood Group** : 'O' +Ve
12. **E-mail** : manmohanchem@gmail.com
13. **Mobile No.** : 9907155681

EDUCATIONAL QUALIFICATIONS :

S.No.	Examination/ Degree	Board/ University	Subject	Year
1.	TWAS-CNPq Post Doctorate	Federal University of Santa Catarina, Florianopolis, Brazil.	Phys. Org. Chemistry (Surface Science)	2007-08
2.	Ph.D	Pt. Ravishankar Shukla University, Raipur	Phys. Org. Chemistry (Surface Science)	2007
3.	CSIR-NET	CSIR-New Delhi	Chemical Science	2002-03
4.	M.Phil.	Vikram University, Ujjain	Chemistry (Inorganic Special)	2002
5.	M.Sc.	Pt. Ravishankar Shukla University, Raipur	Chemistry (Inorganic Special)	2000
6.	B.Sc.	Pt. Ravishankar Shukla University, Raipur	Chemistry, Botany, Zoology	1998

POSITION OBTAINED:

S.No.	Position/Post	Department/Institute	Duration
1.	Assistant Professor	School of Studies in Chemistry, Pt. Ravishankar Shukla University, Raipur.	18 th October to Till Date
2.	TWAS-CNPq (Postdoctoral Fellow)	Federal University of Santa Catarina, Florianopolis, Brajil.	1 Year (2007-08)
3.	Assistant Professor	Brajil, Govt. College, Antagarh	1 Academic Session (2006-07)
4.	Lecturer (Contract Basis)	School of Studies in Chemistry, Pt. Ravishankar Shukla University, Raipur.	1 Academic Session (2005-06)
5.	SRF (CSIR Project)	School of Studies in Chemistry, Pt. Ravishankar Shukla University, Raipur.	1 Year (2005)
6.	JRF (CSIR Project)	School of Studies in Chemistry, Pt. Ravishankar Shukla University, Raipur.	2 Years (2003-05)

Experience

[A] Research Experience : 09 Years

1. One Year, during M. Phil (Chemistry), worked on Inorganic Synthesis and submitted dissertation to Vikram University Ujjain, entitled “*Synthesis and Characterization of Oximato Derivatives of Thorium (IV).*”
2. Four Years , During Ph.D; working on the Physical Organic Chemistry, Surface Science, and Detoxification of Organophosphorus Compounds. Thesis submitted entitled “*Interfacial Reactivity of Hydroxamic Acids in Microorganized Media*”.
3. One Year, During Postdoctorate, working on the Physical Organic Chemistry, Surface Science.

[B] Worked with 800 MHz and 400 MHz NMR spectrometer at National Center of NMR Analysis , Federal University of Rio de Janeiro, Brazil.

[C] Teaching Experience :

1. As Assistant Professor (Permanent), Teaching Post graduate students, School of Studies in Chemistry, Pt. Ravishankar Shukla University, Raipur , 2008 to till date.
2. As Assistant Professor (Adhoc), Govt. College, Antagarh, Kanker (Chhattisgarh), 2006-07.

3. As Lecturer (Contract Basis), School of Studies in Chemistry, Pt. Ravishankar Shukla University, Raipur, 2005-06.

4. As Lecturer (Contract Basis), School of Studies in Chemistry, Vikram University, Ujjain, 2002-03.

Awards:

1. U.G.C. Research Award: Selected for U.G.C. Research Award 2016-18.

2. Best Assistant Professor Award: Awarded Assistant Professor of Year (Science) for Academic Session 2014-15.

3. DST-Young Scientist Award (2011-14), Fast Track Project entitled “O-Nucleophilicity of Hydroxamic Acid: Esterolytic Cleavage of Some Simulants of Chemical Warfare Agents and Organophosphorus Pesticides”.

4. TWAS-CNPq- Postdoctoral Fellowship, Awarded by Third World Academy of Sciences (TWAS), Italy and Council of Scientific and Technological Development (CNPq), Brazil awarded jointly.

5. Senior Research Fellow (SRF), Council of Scientific and Industrial Research (CSIR), New Delhi, Feb. 2005 to Sept. 2005.

6. Junior Research Fellow (JRF), Council of Scientific and Industrial Research (CSIR), New Delhi, Feb. 2005 to Sept. 2005.

Research Project Aailed:

S.No.	Project Title	Funding Agency	Amount	Completed/ Ongoing
1.	“Hydrolytic Cleavage of of Organophosphorus Pesticides by Oximate and Hydroxamate Ions in Self Organized Assemblies”	CCOST, Raipur	5,000000.00	Ongoing
2.	<i>O</i> -Nucleophilicity of Hydroxamic Acid: Esterolytic Cleavage of Some Simulants of Chemical Warfare Agents and Organophosphorus	DST, NewDelhi	26,48000.00	Completed

	Pesticides.			
3.	Synthesis and Development of Novel Oxime Reactivators of cholinesterases Inhibited Organophosphorus Toxicants. (Co-Investigator)	DRDO, New Delhi	39,00000.00	Completed
4.	Solubilization of Polycyclic Aromatic Hydrocarbons using Novel Surfactant Mixtures. (Co-Investigator)	(CSIR, New Delhi)	36,0000.00	Completed
5.	Quantum Dot Bioconjugates: Synthesis, Characterization and Biological Molecular Interaction of Medicinally Important Biomolecules.	DBT, New Delhi	57,48000.00	Submitted
6.	Synthesis, Characterization and Biological Activities of Thiol Capped Silver and Gold Nanoparticles	U.G.C, New Delhi	21,00000.00	Submitted

Research Scholar Guided:

S.No.	Name	Title of Ph.D Thesis	Status
1.	Ms. Sunita Dhritlahre	Synthesis, Micellar Interactions and Catalytic Activities of Some Polymers containing Oximes and Hydroxamic Acids	Working
2.	Ms. Kumudini Chandraker	Synthesis, Characterization and Biological Activities of Thiol Capped Silver and Gold Nanoparticles.	Working
3.	Mr. Sandeep Vaishnav	Quantum Dot Bioconjugates: Synthesis, Characterization and Biomolecular Interaction of Medicinally Important Biomolecules.	Working
4.	Mr. Hitesh Dewangan	<i>O</i> -Nucleophilicity of Hydroxamic Acid: Esterolytic Cleavage of Some Simulants of Chemical Warfare Agents and Organophosphorus Pesticides.	Working
5.	Ms. Jyoti Korram	Nanomaterials based Biosensors for the Detection of Organophosphorus Pesticides.	Working
6.	Ms. Neha Kandpal	Hydrolytic Cleavage of Organophosphorus Based Pesticides in Self-Organized Media.	Working

M.Phil. Students Guided:

S.No.	Name	Title Of Ph.D Thesis	Status
1.	Mr. Kuleshwar Patel	Smart Nanosensor For The Detection of Medicinally Important Thiol Compounds.	Working
2.	Ms. Jyoti Korram	Synthesis and Characterization of Au@Ag Core Shell Nanoparticles.	Completed
3.	Ms. Neha Kandpal	Synthesis, Characterization and Nucleophilic Reactivity of Naphthalene Hydroxamic Acids.	Completed
4.	Ms. Kaushilya Mannewar	Synthesis and Characterization of Thiol Capped Gold Nanoparticles.	Completed
5.	Mr. Sandeep Vaishnav	Synthesis of Thiol Capped Chalcogenide	Completed
6.	Mr. Indrapal Karbhal	Esterolytic Cleavage of Carboxylate and Phosphate Esters by Hydroxamate Ions in Micellar Media.	Completed

7.	Ms. Sunita Dhritlahre	Nucleophilic Attack of Salicylhydroxamate ion at C=O and P=O Centers.	Completed
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Research Publications:

1. 26 Papers Published in International and 09 Papers Published in National Journal of Repute. (Please see Annexure I) .
2. 07 Papers Presented in National and 2 Papers Presented in International Conferences. (Please see Anexure II).

Foreign Visit:

1. TWAS-CNPq Postdoctoral Fellow, Department of Chemistry, Santa Catarina, Florianopolis, Brazil. (May 2—07 to March 2008).
2. 9th Latin American Conference on Physical Organic Chemistry, 30th September 2007 to 5th October 2007, Cordoba, Argentina.

Membership of Academic Bodies:

- 1. Member of University Academic Council.*
- 2. Life Member, Indian Society for Surface Science and Technology.*
- 3. Member of Indian Chemical Society.*

List Of Publications

S.No.	Title	Author	Journal	Impact factor
1.	Interaction of Thiolated Aminoacids and Peptide on to the Gold Nanoparticle Surface: Radical Scavenging Activity.	Satnami, M. L., Chandraker K., Vaishanav, S. K., Nagwanshi, R., Ghosh, K.K	<i>Indian J. Chem.</i> , 2015, 54A, 1206-1214.	0.851
2.	Radical Scavenging Efficacy of Thiol Capped Silver Nanoparticles	Satnami, M. L., Chandraker K., Vaishanav, S. K., Nagwanshi, R., Ghosh, K.K	<i>J. Chem. Sci.</i> , 2015, 1-9, DOI 10.1007/s12039-015-0968-x	1.298
3.	CdS Quantum Dots: Aqueous Synthesis, Spectroscopic and microscopic investigation	ML Satnami SK Vaishanav, R Nagwanshi, KK Ghosh	<i>J. Indian Chem. Soc.</i> , 2015, 92, 1-9.	0.25
4.	Spectrofluorometric determination of mercury and lead by colloidal CdS nanomaterial	ML Satnami SK Vaishanav, R Nagwanshi, KK Ghosh	<i>J. Dis. Sci. Technology.</i> , 2015, 37, 196-204.	0.795

5.	Nucleophilicity of Aromatic and Aliphatic Hydroxamate Ions towards C=O and P=O Center in Cationic Micellar Media.	N Kandpal, HK Dewangan, ML Satnami	J. Indian Chem. Soc., 2015 (Accepted) In press	0.25
6.	O-Nucleophilicity of Hydroxamate Ions for Cleavage of Carboxylate and Phosphate Esters in Cationic Micelles	ML Satnami, H Dewangan, I Karbhal	Int. J. Chem. Kinetics. 2014, 46(8), 419-432	1.57
7.	Evaluation of the Potency of Antibacterial activity of some beta-lactum antibiotics conjugated with CdSe/ZnS quantum dots.	ML Satnami, S Vaishnav	Toxicol. Letters, 2014 , S 229, S119.	3.36
8.	Kinetics studies of hydroxamate and Functionalized oximate ions for hydrolysis of organophosphorus compounds	H Dewangan, ML Satnami	Toxicol. Letters, 2014 , S 229, S115.	3.36
9.	From α -Nucleophiles to Functionalized Aggregates: Exploring the Reactivity of Hydroxamate Ion towards Esterolytic Reactions in Micelles	N. Singh, Y. Karpichev, R. Sharma, B Gupta, A. K. Sahu, M. L. Satnami, K. K. Ghosh	Org. Biomol. Chem., 2015,13, 2827-2848 (Review Article)	3.562

10.	Solubilization of Polycyclic Aromatic Hydrocarbons in Structurally Different Gemini and Monomeric Surfactants: A Comparative Study	T. Yadav, D. Tikariha, J. Lakra, M.L. Satnami, A.K. Tiwari, S. K. Saha, K. K Ghosh	J. Mol. Liq., 2015, 204, 216-221	2.154
11.	Mixed Micellization of Gemini & Cationic Surfactants: Physico-chemical Properties & Solubilization of Polycyclic Aromatic Hydrocarbons.	J. Lakra, D. Tikariha, T. Yadav, S. Ghosh, M. L. Satnami, Kallol K. Ghosh,	Colloids Surf. A: Physicochem Eng. Aspects 2014, 451, 56-65.	2.354
12.	Catalytic hydrolysis of phosphodiester by nucleophilic ions in gemini micellar media	Birendra Kumar, Deepti Tikariha, M. L. Satnami, Nadia Barbero, Pierluigi Quagliotto and Kallol K. Ghosh	J. Phy. Org. Chem. 2014, 27, 613-621	1.38
13.	Assessment of Antidotal Efficacy of Cholinesterase Reactivators Against Paraoxon: In Vitro	B. Gupta, N. Singh, R. Sharma, B. Foretic, K.	Bioorganic & Medicinal Chemistry Letters, 2014, 24, 4743-4748	2.331

	Reactivation Kinetics and Physicochemical Properties	Musilek, K. Kuca, J. Acharya, M.L. Satnami, K. K. Ghosh		
14.	Physicochemical Properties and Supernucleophilicity of Oxime Functionized Surfactants: Hydrolytic Catalysts Towards Dephosphorylation of Di- and Tri-phosphate Esters.	N. Singh, Y. Karpichev, B. Gupta, M. L. Satnami, J. Marek, K. Kuca, K. K. Ghosh	J. Phy. Chem. B, 2013, 117, 3806-3817	3.30
15.	Reactivity Studies of Carbon. Phosphorus and Sulphur Based Acyl Studies with Tertiary Oximes in Gemini Surfactants	B. Gupta, R. Sharma, N. Singh, Y. Karpichev, M. L.Satnami, K. K. Ghosh	J. Phys. Org. Chem., 2013, 26, 632-642	1.38
16.	Study of Solubility Efficiency of Polycyclic Aromatic Hydrocarbons in Pure Surfactant System.	J. Lakra, D. Tikariha, T. Yadav, M. L. Satnami, K. K. Ghosh.	J. Surf. Deterg. 2013, 16, 957-966	1.68
17.	Reactivity Studies of Carbon. Phosphorus and Sulphur Based Acyl Studies with Tertiary Oximes in Gemini Surfactants.	B. Gupta, R. Sharma, N. Singh, Y. Karpichev, M. L.Satnami, K.	J. Phys. Org. Chem., 2013, 26, 632-642	1.38

		K. Ghosh		
18.	Physiochemical Characterization of Cationic Gemini Surfactants and Their Effect on Reaction Kinetics in Ethylene Glycol-Water Medium.	D. Tikariha, N. Singh, M.L. Satnami, K.K. Ghosh, P. Quagliotto N. Barbero	Colloids Surf. A: Physicochem. Eng. Aspects 2012, 411, 1-11.	2.354
19.	Comparative studies on reaction of bis(<i>p</i> -nitrophenyl) phosphate and α -nucleophiles in cationic micellar media.	B. Kumar, M.L. Satnami, K.K. Ghosh, K. Kuca	J. Phys. Org. Chem. 2012, 25,864-871.	1.38
20.	Nucleophilic Attack of Salicyl-hydroxamate Ions at C=O and P=O Centers in Cationic Micellar Media	ML Satnami, S Dhritlahre, R Nagwanshi, I Karbhal, KK Ghosh, F Nome	J. Phys. Chem. B 2010,114,16759-16765	3.30
21.	Incorporation and Reactions of Iodide Ion with Methyl Naphthalene-2-sulfonate in Zwitterionic Sulfobetaine Micelles: A New Model for Anion Distribution.	M. A. Farrukh, R. C. Beber, J. P. Priebe, Manmohan L. Satnami , G. A. Micke, A. C. O. Costa, H. D. Fiedler, C. A. Bunton, F. Nome	<i>Langmuir</i> 2008 , 24, 12995-13000	4.268

22.	The chameleon-Like Nature of Zwitterionic Micelles: The Intrinsic Relation of Anion and Cation Binding in Sulfobetaines Micelles	J. P. Priebe, Manmohan L. Satnami , D. W. Tondo, B. S. Souza, J. M. Priebe, G. A. Micke, A. C. O. Costa, H. D. Fiedler, C. A. Bunton, F. Nome	<i>J. Phys. Chem. B</i> , 2008 , 112, 14373-14378	4.033
23.	Effect of Cationic Gemini Surfactants on the Hydrolysis of Carboxylate and Phosphate Esters Using Hydroxamate Ions.	K. K. Ghosh, S. Kolay, S. Bal, Manmohan L. Satnami , P. Quagliotto, P. R. Dafonte	<i>Colloid Polymer Sci.</i> , 2008 , 286, 293-303.	2.443
24.	Kinetic Studies of Micelle-Assisted Reaction of with Benzohydroxamate Ions in Water-Ethylene Glycol Mixtures.	S. Bal, Manmohan L. Satnami , S. Kolay, R. M. Palepu, P. R. Dafonte, K. K. Ghosh	<i>J. Surface Sci. Technol.</i> , 2007 , 23, 1-16.

25.	Kinetics of Reaction of Oximate Nucleophiles with <i>p</i> -Nitrophenyl Acetate in Alkyltriphenyl Phosphonium Bromide Micelles.	K. K. Ghosh, S. Kolay, Manmohan L. Satnami , Sarah, Moore, R. M. Palepu, P. R. Dafonte	<i>J. Dispersion Sci. Technol.</i> , 2007 , 28, 213-218.	0.720
26.	Studies of Nucleophilic Reactions of <i>p</i> -Nitrophenyl Acetate with Some Dihydroxamate ions in Cationic Micellar Media.	K. K. Ghosh, S. Bal, Manmohan L. Satnami , R. M. Palepu, P. R. Dafonte	<i>J. Dispersion Sci. Technol.</i> , 2006 , 27, 349-355.	0.720
27.	Enhanced Nucleophilic Reactivity of Hydroxamate ions some Novel Micellar Systems for Cleavage of Parathion.	K. K. Ghosh, D. Sinha, Manmohan L. Satnami , D. K. Dubey, A. K. Shrivastava, , R. M. Palepu, P. R. Dafonte	<i>J. Colloid Interface Sci.</i> , 2006 , 301, 564-568.	3.066
28.	The \square -Effects in Micelles: Nucleophilic Substitution Reaction of <i>p</i> -	K. K. Ghosh, J. Vaidya, Manmohan L.	<i>Int. J. Chem. Kinet.</i> , 2006 , 38, 26-31.	1.619

	Nitrophenyl Acetate with <i>N</i> -Phenylbenzohydroxamate Ions.	Satnami		
29.	Nucleophilic Substitution Reaction of Carboxylate and Phosphate Esters with Hydroxamate Ions in Microemulsions.	K. K. Ghosh, Manmohan L. Satnami	<i>Colloids and Surfaces A: Physicochem. Eng. Aspects</i> , 2006 , 274, 125-129.	2.130
30.	Kinetic Study of Hydrolytic decomposition of Organophosphates and Thiophosphates by <i>N</i> -Hydroxyamides in Cationic Micellar Media	K. K. Ghosh, D. Sinha, Manmohan L. Satnami , A. K. Shrivastava, D. K. Dubey, G. L. Mundhara.	<i>Indian J. Chem.</i> , 2006 , 45B, 726-730.	0.562
31.	Solvent Effects on the Nucleophilic Substitution Reaction of <i>p</i> -Nitrophenyl Acetate with Hydroxamate Ions.	K. K. Ghosh, Manmohan L. Satnami , D. Sinha	<i>J. Mol. Liquids</i> 2005 , 116, 55-60.	1.649
32.	Nucleophilic Dephosphorylation of <i>p</i> -	K. K. Ghosh, D. Sinha,	<i>Langmuir</i> , 2005 , 21,	4.268

	Nitrophenyl Diphenyl Phosphate in Cationic Micellar Media.	Manmohan L. Satnami , D. K. Dubey, P. R. Dafonte, G. L. Mundhara.	8664-8669	
33.	Dephosphorylation of Paraoxon by Hydroxamate Ions in Micellar Media	K. K. Ghosh, Manmohan L. Satnami , D. Sinha	<i>Tetrahedron Letters</i> , 2004 , 45, 9103-9105.	2.618
34.	Effects of Hydroxamate Ions in Micellar Mediated Reaction of <i>p</i> -Nitrophenyl Acetate.	K. K. Ghosh, Y. Simanenko, Manmohan L. Satnami , S. K. Sar	<i>Indian J. Chem.</i> , 2004 , 43B, 1990-1994.	0.562
35.	Micellar Effects Upon the Reaction of <i>p</i> -Nitrophenyl Acetate with <i>N</i> -Hydroxyamides.	K. K. Ghosh, D. Sinha, Manmohan L. Satnami	<i>J. Surface Sci. Technol.</i> , 2003 , 19, 159-166.

Annexure-II

LIST OF PAPERS PRESENTED IN CONFERENCES

S.No.	Title	Author	Conference
1.	Nucleophilic Attack of Salicylhydroxamate Ion at C=O and P=O Centers in Cationic Micellar Media.	Manmohan L. Satnami, Indrapal Karbhal, Sunita Dhritlahre	<i>National Seminar On Research in Chemical Science (4 & 5th March 2011) Govt. Madhav Science College, Ujjain.</i>
2.	Nucleophilic Attack of Salicylhydroxamate Ion at C=O and P=O Centers in Cationic Micellar Media: Hydroxamate-Assisted Catalytic Cleavages of Carboxylate and Phosphate Esters In Cationic Micelles.	Manmohan L. Satnami, Indrapal Karbhal, Sandeep Vaishnav.	<i>48th Annual Convention of Chemist 2011 (3-7 Dec. 2011) University of Allahabad, Allahabad (U.P.)</i>
3.	Specific Anion Binding to Sulfobetaine Micelles: Effect on Surface Acidity.	Daniel W. Tondo, Jonas P. Priebe, Jacks P. Priebe, Bruno S. de Souza, Manmohan L. Satnami and Faruk Nome	<i>9th Latin American Conferences on Physical Organic Chemistry, 30 Sept. to 5 October 2007, Cordoba, Argentina</i>
4.	Interfacial Modification of Sulfobetaine Micelles: Effect of Sulfobetaine Micelles on Hydrolytic Reactions.	Manmohan L. Satnami, Bruno S. De Souza, Jacks P. Priebe, Daniel W. Tondo and Faruk Nome.	<i>XV Encontro de Quimica da Regio Sul, Quimica e a Interdisciplinaridade, 15-17 November, 2007, Ponta Grassa, Prana, Brasil (Presented)</i>
5.	Interfacial Reactivity of Hydroxamic Acids in Micelles.	Manmohan L. Satnami	<i>3rd Chhattisgarh Young Scientist Congress, 28th Feb</i>

			2005 to 1 st March 2005, Raipur (Chhattisgarh), India Presented
6.	Enhanced Nucleophilic Reactivity of Hydroxamic Acids in Micelles.	Kallol K. Ghosh, D.Sinha and Manmohan L.Satnami	<i>92nd Indian Science Congress</i> , Jan. 3-7, 2005, Ahmedabad, India Presented
7.	Kinetics of Nucleophilic Reactivity of Hydroxamic acids.	Kallol K. Ghosh and Manmohan L. Satnami	<i>XI National Conference on Surfactant, Emulsions & Biocolloids (NATCOSEBXI)</i> , Dec. 11-13, 2003, University of Mumbai, India Presented
8.	Catalytic Hydrolysis of Organophosphates: ONucleophilicity of –N-O- Functional Oximates and Hydroxamates.	Manmohan L. Satnami and Hitesh Kumar Dewangan	<i>XVI National Conference on Surfactant, Emulsions & Biocolloids (NATCOSEBXI)</i> , Nov. 28-30, 2013, Central Leather Research Institute (CLRI), Chennai, India Presented
9.	Mixed Micellization and Catalytic Activity of Octanohydroxamic Acid for Hydrolysis of Paraxon.	Manmohan L. Satnami and Hitesh Kumar Dewangan	<i>XVI National Conference on Surfactant, Emulsions & Biocolloids (NATCOSEBXI)</i> , Nov. 04-06, 2015, Pt. Ravishankar Shukla University, Raipur, (C.G.) India Presented