

**Name** : S. PREMSINGH  
**Designation** : ASSOCIATE PROFESSOR  
**Department** : PG & RESEARCH DEPT.OFCHEMISTRY  
**Date of Joining** : 01.07 1991  
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**Educational Qualifications:**

Sl. No.	Degree	Subject	Period	University
1.	Ph.D.	Electron Transfer Reactions of carcinogenic Chromium with biologically important compounds	1997 – 2003	Madurai kamaraj University
2.	M.Phil	Structure Reactivity Correlations in Retro -Aldol Reactions	1989 – 90	Madurai kamaraj University
3.	M.Sc.	Chemistry	1987 – 89	Madurai kamaraj University
4.	B.Sc.	Chemistry	1984 – 87	Madurai kamaraj University
5.	D.Pharm	Pharmacy	1982 – 83	Thanjavur Medical College, Thanjavur

**Specialisation in Research:** Structure -activity correlations, Drug Design

**Research Interests:** Structure -activity correlations, Drug Design

**Other Work Experience:** Registered pharmacist of pharmacy council of Tamilnadu,  
Industrial consultation, Co-ordinator for Pharma marketing job oriented course

Designation	Institution / Company	Year - From (month/year) To (month/year)
Associate professor	The American College, Madurai	Since 2011
Assistant professor-selection grade	The American College, Madurai	2008 -2011
Assistant professor-senior scale	The American College, Madurai	2003 - 2008

Assistant professor	The American College, Madurai	1998 -2003
Lecturer	The American College, Madurai	1991- 1998
PG -Assistant	St. Peter's Public School, Kodaikanal	1990 - 91
Pharmacist (part-time)	Pharmacy	1984-90

**Administrative /Academic Position/s (held / currently holding):**

<b>Positions held / currently holding</b>	<b>Year - From (month/year) To month/year)</b>
Residential superintendent	July 1991- May 1996
Coordinator for pharma marketing course	2004 - 2008
Autonomy coordinator PG Chemistry	Since 2013
Research coordinator PG Chemistry	Since 2014
Elected senate member of American college	2013 - 2015

**Membership in Professional Bodies:**

1. Life member of Tamil Nadu Pharmacy Council
2. Member, Board of studies of few autonomous colleges in south Tamil nadu.
3. Member, Academic council of American college.
4. Member, senate of American college.

**Research Experience**

1. 1989 – 90 : **Research, leading to Degree in Master of Philosophy**– Topic :- *Structure reactivity correlations in the retroaldol reaction of ortho and Para substituted Ethyl -  $\alpha$  - Cyanocinnamates.*
2. 1997 – 2003 : Part time **Research leading to Ph.D.** - Topic:- *Study of redox reactions of Chromium complexes with biologically important compounds.*
3. 1996 – 98 : **Minor Research project** sanctioned by **University Grants Commission** – Titled “*Study of Redox Reactions of Carcinogenic Chromium with Biologically important Amino compounds.*”

4. 2003 – 2004 : **Minor Research project** sanctioned by **Tamil Nadu State council for Science and Technology** – Titled “*Study of redox reactions of carcinogenic azobenzene with biomimetic chromium complexes.*”
5. 2005 – 2007 : **Minor Research project** sanctioned by **University Grants Commission** – Titled “*Extraction, isolation, characterization of active ingredients of gymnema sylvestre : Complexation with chromium and vanadium compounds – an attempt to diabetic drug.*”

#### Articles Published in International Journals:

1. **Electron Transfer Reaction of Oxo(salen)chromium(V) Ion with Anilines.**  
**Prem Singh, Sundarsingh;** Venkataramanan, Natarajan Sathiyamoorthy; Rajagopal, Seenivasan; Mirza, Shama. P.; Vairamani, Mariappanadar; Rao, P. Sambasiva; Velavan, K. **Inorganic Chemistry (2004), 43(18), 5744-5753.** Publisher: **American Chemical Society,**
2. **Electronic and Steric Effects on the Oxygenation of Organic Sulfides and Sulfoxides with Oxo(salen)chromium(V) Complexes** Venkataramanan, N.S., **Prem Singh .S.,** Rajagopal,S.,PitchumaniK., J.Org. Chem.2003,68,7460-7470 Publisher: **American Chemical Society**
3. **Coordination chemistry of chromium-Salen complexes studied by electrospray ionization mass spectrometry**M. Kiran Kumar<sup>1</sup>, S. Prabhakar<sup>1</sup>, M. Ravi Kumar<sup>1</sup>, T. Jagadeshwar Reddy ,**S. Prem Singh,** S. Rajagopal and M. Vairamani\***Rapid Communications in Mass Spectrometry** 2004; 18: 1103–1108 Published online in **Wiley InterScience**
4. **Immunostimulatory effect of *Tinospora Cordifolia* Miers leaf extract in *Oreochromis mossambicus*,** D.S.Sudhaharan, P.Srirekhha, I.D. Devasree, **S.Prem Singh,** R.D.Michael, Indian journal of Experimental biology,*44,* pp 726-732,**2006.**
5. **Structure-Reactivity Correlations in the retroaldol reaction of para- and ortho - Substituted Ethyl  $\alpha$ - Cyanocinnamates,** Arunachalam Shanmugasundaram, **Sundarsingh Prem Singh** and Thangiah Lekshmana Thanulingam, Journal of Chemical Research(S)1991,124-125; Journal of Chemical Research (M) 1991,0980-0997,Publisher: **Royal Chemical Society.**

### **Conference / Seminar Presentations:**

1. Electron Transfer Reactions of oxo(salen) chromium (V) ions with primary, secondary and tertiary Aromatic amines : UV-VIS and ESI-MS study, oral presentation-13, second regional Chemical Research Society of India Symposium in Chemistry, 7<sup>th</sup> & 8<sup>th</sup> January , 2005, Bharathidasan University, Thiruchirapalli.
2. Redox reactions of oxo(salen) chromium (V) ions with phenols, Presentation 14, National level conference on recent trends in chemistry of biologically interesting compounds, sponsored by University Grants commission 22<sup>nd</sup>&23<sup>rd</sup> July,2005, V.H.N.S.N. college,virudhunagar.
3. Effect of ligand oxides (LO) on the oxo(salen) chromium (V) ion oxidation of anilines, presentation 7, UGC sponsored National seminar on Emerging trends in chemistry, 26<sup>th</sup>&27<sup>th</sup> July 2006, Cardamom planters association college, Bodinayakanur, Theni district, Tamilnadu.

#### **4. Workshops attended**

1. UGC workshop on Question Bank in Chemistry - Phase I Loyola College, Chennai – October 1996.
2. UGC workshop on Question Bank in Chemistry - Phase I St. Josephs College, Thiruchirapalli – January 1999.
3. Minor Research Project Interface Meeting, Bishop Heber College, Thiruchirapalli – July 1999.
4. UGC sponsored orientation programme Academic staff College, Pondicherry University – January 2002
5. UGC sponsored Refresher course in Chemistry – Gandhigram Rural Institute, Gandhigram – November 2003
6. Medicinal Plants – Perspectives, Prospects, Challenges Gandhigram Rural Institute, Gandhigram – December 2004
7. Workshop on National Initiative on Bio inorganic Chemistry – Indian Institute of Science, Bangalore – October 2005.
8. UGC sponsored Refresher course in Chemistry – Madurai Kamaraj University – November 2006.
9. Orientation program on Campus Environmental Audit- United Board for Christian Higher Education in Asia Bishop Heber College – Trichy-October 2010

**5. Lectures / Talks given:**

- Delivered radio talks on environmental issues
  - i. Colors in food
  - ii. Water an Inorganic liquid
- Acted as resource person for in-service training of Post Graduate Chemistry teachers from Schools in Madurai and Theni Districts.
- Delivered many inaugural lectures for chemistry in various colleges.