

## Dr. Manoj Kumar Gupta

Assistant Professor  
Department of Chemistry, School of Chemical Sciences  
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### 1. Appointment

Assistant Professor

Department of Chemistry, Central University of Haryana,  
Mahendergarh, Haryana, **February 2016-Present**

### 2. Education & Training

Fast Track Young Scientist (PI) of Science &  
Engineering Research Board (SERB), New  
Delhi funded project

Centre of Biomedical Research (CBMR), Lucknow, Uttar  
Pradesh, **April 2014-February 2016**

FP7 Marie Curie (International Incoming  
Fellowship) Postdoctoral Research  
Associate

University College Cork, Ireland, **September 2011-  
September 2013**

Postdoctoral Research Associate

University of Alabama, Tuscaloosa, AL, USA and University of  
Tennessee Medical Centre (UTMC), Knoxville, TN, USA,  
**November 2009-April 2011**

Research Associate

Sai Advantium Pharma Ltd., Hyderabad, India, **2008-2009**

Ph.D.\*  
(Research Adviser - Dr. J. S. Yadav)

CSIR-Indian Institute of Chemical Technology (IICT),  
Hyderabad, India, **2003-2008**  
(\*The conferred degree awarded from Vidyasagar University,  
Midnapore, W.B. in 2009)

### 3. Professional Recognitions, Awards and Fellowships

<u>Year</u>	<u>Awards and Fellowships</u>	<u>Awarding agency</u>
2013	Fast Track Young Scientist Start-up Research Grant in Chemical Sciences	Science & Engineering Research Board, New Delhi, India
2012	Ireland's Champions of EU Research	Seventh EU Framework Programme Ireland
2010	EU Marie-Curie International Incoming Fellowship	Marie-Curie Actions (European Union)
2009	Asia Outstanding Thesis Award (First Prize)	Eli-Lilly & Company, USA
2007	Selected for Director's Special Appreciation Award for SRF	CSIR-IICT Hyderabad, India
2005	Selected for Best SRF Award	CSIR-IICT Hyderabad, India
2004	Selected for Best JRF Award	CSIR-IICT Hyderabad, India
2005-2008	CSIR- Senior Research Fellowship (SRF)	CSIR New Delhi, India
2003-2005	CSIR-Junior Research Fellowship (JRF)	CSIR New Delhi, India
2002	Uttar Pradesh State Level Eligibility Test	UGC, India
2002	CSIR-JRF (June 2002) and CSIR-NET (Dec 2002)	CSIR-UGC, New Delhi

#### 4. Teaching Interests

- SCS CH 1 1 02 C 4004 - Organic Chemistry- I
- SCS CH 1 2 06 C 4004 - Organic Chemistry - II
- SCS CH 1 3 09 C 4004 - Applications of Spectroscopy
- SCS CH 1 3 10B C 4004 - Heterocyclic and Natural Products Chemistry
- SCS CH 1 1 06 DCEC 4004 - Medicinal Chemistry
- SCS CH 1 2 08 C 0044 - Chemistry Laboratory-II

#### 5. Research Interests

- *Technology Based Synthetic Organic Transformations.*
- *Development of New methods in Organic Syntheses and its Application towards the Total Synthesis of Bio-active Natural Products.*
- *Medicinal Chemistry and Chemical Biology.*

*Note: Suitable qualified candidates with organic chemistry background may contact via email at [mkgupta@cuh.ac.in](mailto:mkgupta@cuh.ac.in) for the availability of Ph.D. and R.A. positions.*

#### 6. Funded Project (Ongoing)

1. Fast Track Young Scientist Startup Research Grant funded by Science & Engineering Research Board (SERB), New Delhi, Amount Rs. 29,87,333/- (For three years)

#### 7. Research Group

##### (i) Current member (Ph.D.)

1. Mr. Anil Kumar, M.Sc. (CSIR-JRF AIR - 80)  
Date of Joining - July 2016

##### (ii) Past member (M.Sc. Project)

1. Mr. Vikas Yadav (2016)
2. Mr. Anil Kumar (2016)
3. Mrs. Pooja Yadav (2016)
4. Mr. Vipin Arora (2016)

##### (iii) Students supervised during Postdoc

Supervised 2x final year undergraduate Pharmacy students in Department of Chemistry & School of Pharmacy, ABCRF Cavanagh Pharmacy Building, University College Cork, Ireland in 2012 & 2013

#### 8. Teaching and Learning courses

- Teaching and Learning for Researchers 2012-2013  
Facilitators: Dr Bettie Higgs and Dr Marian McCarthy, and invited contributors, Ionad Bairre, The Teaching and Learning Centre, University College Cork, Ireland

## 9. List of Published Papers & Reviews in Peer Reviewed Journals

Total number of publications	:	37
h-index	:	15

Journal wise break up		
Journal	Impact Factor	Number
<i>Organic Letters</i>	6.732	1
<i>Chemical Communications</i>	6.567	2
<i>J. Organic Chemistry</i>	4.785	2
<i>J. Mol. Catalysis A: Chemical</i>	3.958	3
<i>Catalysis Communications</i>	3.389	2
<i>RSC Adv.</i>	3.289	1
<i>Eur. J. Org. Chem.</i>	3.068	1
<i>Synthesis</i>	2.652	7
<i>Synlett</i>	2.323	3
<i>Tetrahedron Letters</i>	2.347	9
<i>Curr. Org. Chem</i>	1.949	1
<i>Int. J. Phar. Sci. Res.</i>	1.79	1
<i>Monatsh. Chem.</i>	1.131	4

### 2016

37. O`Reilly K, **Gupta MK**, Gandhi H, Kumar VP, Eccles KS, Lawrence SE, O`Sullivan TP, "Cinchona-catalysed, enantioselective synthesis of  $\beta$ -peroxycarboxylic acids,  $\beta$ -peroxyesters and  $\beta$ -peroxyalcohols" *Curr. Org. Chem.*, 2016 (ASAP). DOI: 10.2174/1385272820666160513164417  
Impact factor - 1.949

### 2015

36. Li Z, **Gupta MK**, Snowden TS, "One-carbon homologation of primary alcohols and the reductive homologation of aldehydes involving a Jocic-type reaction" *Eur. J. Org. Chem.* 2015, 7009-7019.  
Impact factor - 3.068

### 2014

35. **Gupta MK**, Li Z and Snowden TS, "Preparation of one-carbon homologated amides from aldehydes or primary alcohols" *Org. Lett.* 2014, 16, 1602-1605.  
Impact factor - 6.732
34. Yadav JS, Yadav NN, **Gupta MK**, Srivastava N and Reddy BVS, "GaCl<sub>3</sub>-catalyzed activation of alkynyl glycosides for the synthesis of O-glycosides" *Monatsh Chem* 2014, 145, 517-520.  
Impact factor - 1.131

### 2013

33. **Gupta MK** and O'Sullivan T.P., "Recent applications of gallium and gallium halides as reagents in organic synthesis" *RSC Adv.* 2013, 3, 25498-25522.  
Impact factor - 3.289

32. Yadav JS, Reddy PKM, **Gupta MK** and Reddy BVS, "A short and facile stereoselective total synthesis of cryptocarya diacetate" *Monatsh Chem.* **2013**, *144*, 1583-1587.  
*Impact factor - 1.131*

#### 2012

31. **Gupta MK**, Li Z and Snowden TS, "One-pot synthesis of trichloromethyl carbinols from primary alcohols" *J. Org. Chem.* **2012**, *77*, 4854-4860.  
*Impact factor - 4.785*
30. Yadav JS and **Gupta MK**, "Self-assembled lipid nanotubes, nanosheets and nanopipes" *Int. J. Phar. Sci Res.* **2012**, *3*, 4822-4826.  
*Impact factor - 1.79*

#### 2010

29. Yadav JS, **Gupta MK**, Jain R, Yadav NN and Reddy BVS, "A practical synthesis of bis(indolyl)methanes employing boric acid" *Monatsh Chem* **2010**, *141*, 1001-1004.  
*Impact factor - 1.131*

#### 2009

28. Yadav JS, Reddy, BVS, Yadav NN and **Gupta MK**, "Three-component coupling of isoquinoline, activated alkyne and nitromethane: a facile synthesis of nitromethyl derivatives of 1,2-dihydroisoquinolines" *Synthesis* **2009**, 1131-1136.  
*Impact factor - 2.652*

#### 2008

27. Yadav JS, Reddy BVS, Yadav NN, **Gupta MK** and Sridhar B, "Gold(III) chloride catalyzed three-component reaction: A facile synthesis of alkynyl derivatives of 1,2-dihydroquinolines and isoquinolines" *J. Org. Chem.* **2008**, *73*, 6857-6859.  
*Impact factor - 4.785*
26. Yadav JS, Reddy BVS, Sengupta S, **Gupta MK**, Baishya G, Harshavardhana SJ and Dash U, "Iodine as mild, efficient and cost-effective catalyst for the synthesis of thiiranes from oxiranes" *Monatsh Chem.* **2008**, *139*, 1363-1367.  
*Impact factor - 1.131*
25. Yadav JS, Reddy BVS, Yadav NN and **Gupta MK**, "Three-component coupling reactions of isoquinoline, dimethyl acetylenedicarboxylate and indoles: facile synthesis of 3-indolyl-1,2-dihydro-2-isoquinolinyl-2-butenedioate" *Tetrahedron Lett.* **2008**, *49*, 2815-2819.  
*Impact factor - 2.347*
24. Yadav JS, Reddy BVS, Pandurangam T, Reddy YJ and **Gupta MK**, "PMA/SiO<sub>2</sub> catalyzed amidation of alcohols with nitriles: A simple, cost-effective and recyclable catalytic system for Ritter reaction" *Cat. Commun.* **2008**, *9*, 1297-1301.  
*Impact factor - 3.389*

#### 2007

23. Yadav JS, **Gupta MK**, Prathap I, Bhadra MP, Mohan K and Jagannadh B, "Synthesis and cellular uptake of cell delivering 2,6-pyridinediylbisalkanamide submicron-sheets in HeLa cells" *Chem. Commun.* **2007**, 3832-3834.  
*Impact factor - 6.567*

22. Yadav JS, Reddy PMK, **Gupta MK** and Chary CJ, "Stereoselective total synthesis of tarchonanthuslactone & formal synthesis of (-)-colletol" *Synthesis* **2007**, 3639-3646.  
*Impact factor* - 2.652
21. Yadav JS, **Gupta MK** and Prathap I, "Facile stereoselective synthesis of the C12-C24 fragment of macrolactin-A" *Synthesis* **2007**, 1343-1348.  
*Impact factor* - 2.652
20. Yadav JS, Reddy BVS, **Gupta MK**, Dash U, Bhunia DC and Hossain SS, "Mild and efficient coupling of diazo compounds with aza-aromatic systems under solvent-free conditions" *Synlett* **2007**, 2801-2804  
*Impact factor* - 2.323
19. Yadav JS, Reddy BVS, Rao TS, Narender R and **Gupta MK**, "PMA/SiO<sub>2</sub> as efficient, cost-effective and recyclable catalytic system for the synthesis of highly substituted pyrroles" *J. Mol. Catal. A: Chemical* **2007**, 278, 42-46.  
*Impact factor* - 3.958
18. Yadav JS, Reddy BVS, **Gupta MK**, Prathap I and Pandey SK, "Amberlyst A-21<sup>®</sup>: an efficient, cost-effective and recyclable catalyst for the synthesis of substituted 4H-chromenes" *Cat. Commun.* **2007**, 8, 2207-2210.  
*Impact factor* - 3.389
17. Yadav JS, Reddy BVS, **Gupta MK**, Prathap I and Dash U, "Facile addition of ketones to activated isoquinolines using N-methyl-2-pyrrolidinone" *Synthesis* **2007**, 1077-1081.  
*Impact factor* - 2.652
16. Yadav, JS, Reddy BVS, **Gupta MK**, Dash U and Pandey SK, "Gallium(III) chloride catalyzed stereoselective synthesis of E-configured  $\alpha,\beta$ -unsaturated ketones" *Synlett* **2007**, 809-811.  
*Impact factor* - 2.323
15. Yadav JS, Reddy BVS, **Gupta MK** and Pandey SK, "Gallium(III) iodide-promoted stereoselective aldol coupling of  $\alpha,\beta$ -acetylenic ketones" *J. Mol. Catal. A: Chemical* **2007**, 264, 309-312.  
*Impact factor* - 3.958
14. Yadav JS, Reddy BVS, Reddy PMK, Dash U and **Gupta MK**, "Indium(III) bromide catalyzed cleavage of cyclic and acyclic ethers: an efficient and practical ring opening reaction" *J. Mol. Catal. A: Chemical* **2007**, 271, 266-269  
*Impact factor* - 3.958

## 2005

13. Yadav JS, Reddy BVS, Reddy PMK and **Gupta MK**, "Zn/[bmim]PF<sub>6</sub>-mediated Markovnikov allylation of unactivated terminal alkynes" *Tetrahedron Lett.* **2005**, 46, 8411-8413.  
*Impact factor* - 2.347
12. Yadav JS, Reddy BVS, Reddy PMK and **Gupta MK**, "Mild and efficient method for the cleavage of cyclic and acyclic ethers by iodine under solvent-free conditions" *Tetrahedron Lett.* **2005**, 46, 8493-8495.  
*Impact factor* - 2.347
11. Yadav JS, Reddy BVS, **Gupta MK** and Eeshwaraiah B, "CeCl<sub>3</sub>·7H<sub>2</sub>O/NaI-promoted stereoselective Aldol coupling of  $\alpha,\beta$ -acetylenic ketones" *Synthesis* **2005**, 57-60.  
*Impact factor* - 2.652
10. Yadav JS, Reddy BVS, Baishya G, Harshavardhan SJ, Chary CJ and **Gupta MK**, "Green approach for the conversion of olefins into vic-halohydrins using N-halosuccinimides in ionic liquids" *Tetrahedron Lett.* **2005**, 46, 3569-3572.  
*Impact factor* - 2.347

9. Yadav JS, Reddy BVS, Eeshwaraiah B, **Gupta MK** and Biswas SK, "Gallium(III) halide promoted synthesis of 1,3,5-triaryl-1,5-dihalo-1,4-pentadienes" *Tetrahedron Lett.* **2005**, *46*, 1161-1163.  
*Impact factor - 2.347*
8. Yadav JS, **Gupta MK**, Pandey SK, Reddy BVS and Sarma AVS, "Nucleophilic displacement by azide and cyanide on Baylis-Hillman acetates in water" *Tetrahedron Lett.* **2005**, *46*, 2761-2763.  
*Impact factor - 2.379*
7. **Gupta MK**, "Copper(II) trifluoromethanesulfonate" *Synlett*, **2005**, 1044-1045  
*Impact factor - 2.323*
6. Ansari IA, Joyasawal S, **Gupta MK**, Yadav JS and Gree R, "Wacker oxidation of terminal olefins in a mixture of [bmim][BF<sub>4</sub>] and water" *Tetrahedron Lett.* **2005**, *46*, 7507-7510.  
*Impact factor - 2.347*

#### 2004

5. Yadav JS, Reddy BVS, **Gupta MK** and Biswas SK, "Rapid and efficient protocol for the synthesis of 4-halotetrahydropyrans using Niobium(V) chloride and gallium(III) halides" *Synthesis* **2004**, 2711-2715.  
*Impact factor - 2.652*
4. Yadav JS, Reddy BVS, Eeshwaraiah B and **Gupta MK**, "Bi(OTf)<sub>3</sub>/[bmim]BF<sub>4</sub> as novel and reusable catalytic system for the synthesis of furan, pyrrole and thiophene derivatives" *Tetrahedron Lett.* **2004**, *45*, 5873-5876.  
*Impact factor - 2.347*
3. Yadav JS, Reddy BVS and **Gupta MK**, "Ferric(III) chloride promoted efficient thiocyanation of arylalkenes: a facile synthesis of dithiocyanates" *Synthesis* **2004**, 1983-1986.  
*Impact factor - 2.652*
2. Yadav JS, Reddy BVS, Padmavani B and **Gupta MK**, "Gallium(III) halide catalyzed coupling of indoles with phenylacetylene: synthesis of bis(indolyl)phenylethanes" *Tetrahedron Lett.* **2004**, *45*, 7577-7579.  
*Impact factor - 2.347*
1. Yadav JS, Reddy BVS, **Gupta MK**, Prabhakar A and Jagadeesh B, "First example of ring expansion of activated quinolines and isoquinolines: novel benzoazepines" *Chem. Commun.* **2004**, 2124-2125.  
*Impact factor - 6.567*

#### Conference Publications

2. O'Reilly K, **Gupta MK**, O'Sullivan TP, "Enantioselective Peroxidation of Unsaturated Aldehydes - A New Route to Plakortide P" "65<sup>th</sup> Irish Universities Chemistry Research Colloquium Dublin, Ireland" in 2013.
1. O'Reilly K, **Gupta MK**, O'Sullivan TP, "Organocatalytic enantioselective peroxidation of unsaturated aldehydes - a new route to bioactive cycloperoxides" *North West Organic Chemistry Symposium* Liverpool, U.K in 2012.

## 10. Invited Talks

- Centre of Biomedical Research, SGPGI MS Campus, Lucknow, Uttar Pradesh, July 5, 2016  
*Title - New Strategy for One-Carbon Homologation Functionalization Reactions*

### *Delivered lectures in symposia*

- Dr. K.V. Rao Scientific Society at B. M. Birla Science Centre, Hyderabad, 2008.  
*Title - Synthesis, self-assembly and cellular uptake studies of bioactive molecules.*
- Second Junior National Organic Symposium Trust (J-NOST) at International College for Girls, Jaipur, India, 2006.  
*Title - Towards the total synthesis of macrolactin-A and development of one pot syntheses.*

### *Poster presented in symposia*

- Joint International Conference on Advances in Organic Synthesis and Chemical Biology, IICT Hyderabad, 2006.  
*Title: Exploring the application of activated quinolines and isoquinolines: L-proline catalyzed asymmetric addition reaction of activated isoquinolines with ketones.*
  - 2<sup>nd</sup> International Conference on Organic Synthesis and Process Chemistry, IICT Hyderabad, 2005.  
*Title- First Example of ring expansion of activated quinolines and isoquinolines: novel benzoazepines.*
-