CURRICULAM VITAE

Name: Dr. **Manmeet Kumar**

Date of Birth: 24th June, 1982

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Academic profile:

- Qualified in Gate 2006 held on 12 February 2006. (**All India Rank: 25**)
- Qualified CSIR – UGC Junior Research Fellowship (JRF) and Eligibility for Lectureship-National Eligibility test (NET) held on19.06.2005.
- Qualified CSIR – UGC Junior Research Fellowship (JRF) and Eligibility for Lectureship-National Eligibility test (NET) held on18.12.2005.
- Call for Shyama Prasad Mukherjee (SPM) fellowship test, 2006 (SPM Roll No. SC0096, NET ROLL No. D104445).

Degree/Award	**Name of University/Board**	**Year --to--**	**Marks Obtained**	**Subjects Taken**
Ph.D.	Jawaharlal Nehru University, New Delhi	2010		Organic Chemistry
M.Sc.	M.J.P. Rohilkhand University, Bareilly	2004	653/1000	Chemistry
B. Sc.	M.J.P. Rohilkhand University, Bareilly	2002	911/1350	Physics/ Chemistry
Intermediate	UP Board, India	1999	345/500	Physics/ Chemistry/

				Mathematics
High school	UP Board, India	1996	284/600	Science Group

PhD thesis title: Phytochemical investigation of Indian medicinal plants in search of bioactive natural products".

Thesis Awarded: December, 2010

Publication

1. New antifungal flavonoid glycoside from *Vitex negundo*. B. Sathiamoorthy, Prasoon Gupta, **Manmeet Kumar**, Ashok K. Chaturvedi, P. K. Shukla and Rakesh Maurya, *Bioorganic & Medicinal Chemistry Letters* 2007, 17 , 239–242. (**IF 2.592**)

2. Antihyperglycemic activity of phenylpropanoyl esters of catechol glycoside and its dimers from *Dodecadenia grandiflora*. **Manmeet Kumar,** Preeti Rawat, Neha Rahuja, Arvind Kumar Srivastava and Rakesh Maurya, *Phytochemistry*. 2009, 70, 1448-1455. (**IF 3.192**).

3. Ulmosides A and B: Flavonoid 6-C-glycosides from *Ulmus wallichiana*, stimulating osteoblast differentiation assessed by alkaline phosphatise. Preeti Rawat, **Manmeet Kumar,** Kunal Sharan, Naibedya Chattopadhyay, Rakesh Maurya, *Bioorganic & Medicinal Chemistry Letters*, 2009, 19, 4684–4687. (**IF 2.592**)

4. Constituents of *Tinospora sinensis* and their antileishmanial activity against Leishmania donovaniy. Rakesh Maurya, Prasoon Gupta, Kailash Chand, **Manmeet Kumar**, Preety Dixit, Nasib Singh and Anuradha Dube, *Natural Product Research*, 2009, 23, 1134-1143. (**IF 0.813**)

5. Constituents from fruits of *Cupressus sempervirens*. Preeti Rawat, Mohammad F. Khan, **Manmeet Kumar**, Akhilesh K. Tamarkar, Arvind K. Srivastava, Kamal R. Arya Rakesh Maurya, *Fitoterapia* 2009, 81,162-166. (**IF 1.363**)

6. Tectone, a new antihyperglycemic anthraquinone from *Tectona grandis* leaves. Nivedita Shukla, **Manmeet Kumar**, Akanksha, Ghufran Ahmad, Neha Rahuja, Amar B. Singh, Arvind K. Srivastava, Siron M. Rajendran and Rakesh Maurya, *Natural Product Communications* 2010, 5, 427-430. (**IF 0.766**)

7. Antioxidant flavonoid glycosides from *Evolvulus alsinoides*. **Manmeet Kumar**, Ausaf Ahmad, Preeti Rawat, Naila Rasheed, Prasoon Gupta, Sathiamoorthy B., Gitika Bhatia, Gautam Palit, Rakesh Maurya, *Fitoterapia*, 2010, 81, 234-242. (**IF 1.363**)

8. Extract and fraction from *Ulmus Wallichiana* Planchon promote peak bone achievement and have non-estrogenic osteoprotective effect. Kunal Sharan, Jawed A. Siddiqui, Gaurav Swarnkar, Abdul Malik Tyagi, Avinash Kumar, Preeti Rawat, **Manmeet Kumar**, Geet K. Nagar, Kamal R. Arya, Lakshmi Manickavasagam, Girish K. Jain, Rakesh Maurya, Naibedya Chattopadhyay. *Menopause*. 2010, 17, 393-402. (**IF 3.913**)

9. Total extract and standardized fraction from the stem bark of Butea monosperma have osteoprotective action: evidence for the nonestrogenic osteogenic effect of the standardized fraction. Rashmi Pandey, Gautam, Abnish K, Biju Bhargavan, Ritu Trivedi, Gaurav Swarnkar, , Geet K. Nagar; Dinesh K. Yadav, **Manmeet Kumar**, Preeti Rawat, Lakshmi Manickavasagam, Amit Kumar, Rakesh Maurya, Atul Goel, Girish K. Jain, Naibedya Chattopadhyay, Divya Singh *Menopause* 2010 17 602-610. (**IF 3.913**)

10. A novel flavonoid, 6-C-beta-D-glucopyranosyl-(2S,3S)-(+)-3',4',5,7-tetrahydroxyflavanone, isolated from *Ulmus wallichiana* Planchon mitigates ovariectomy-induced osteoporosis in rats. Kunal Sharan, Jawed A. Siddiqui, Gaurav Swarnkar, Abdul Malik Tyagi, Avinash Kumar, Preeti Rawat, **Manmeet Kumar**, Geet K. Nagar Kamal R. Arya, Lakshmi Manickavasagam Girish K. Jain, Rakesh Maurya, Naibedya Chattopadhyay. *Menopause* 2010 17 577-586. (**IF 3.913**)

11. 8,8″-Biapigeninyl stimulates osteoblast functions and inhibits osteoclast and adipocyte functions: Osteoprotective action of 8,8”-Biapigeninyl in ovariectomized mice. Jawed A. Siddiqui, Gaurav Swarnkar, Kunal Sharan, Bandana Chakravarti, Gunjan Sharma, Preeti Rawat, **Manmeet Kumar**, Faheem M. Khan, Dominique Pierroz, Rakesh Maurya, Naibedya Chattopadhyay *Molecular and Cellular Endrocrinology,* 2010, 323, 256-267. (**IF 3.503**)

12. Quercetin *C*-Glucoside Isolated from *Ulmus Wallichiana* is more potent than quercetin in Inhibiting osteoclastogenesis and mitigating ovariectomy-induced bone loss in rats. Jawed A. Siddiqui, Kunal Sharan, Gaurav Swarnkar, Preeti Rawat, **Manmeet Kumar,** Lakshmi Manickavasagam, Rakesh Maurya, Naibedya Chattopadhyay (*Menopause*. In Press). (**IF 3.913**)

13. Antiostioporotic constituents from Indian medicinal plants. **Manmeet Kumar**, Preeti Rawat, Devendra Mishra Abnish K Gautam, Rashmi Pandey, Divya Singh, N. Chattopadhyay, Rakesh Maurya. (On line *Phytomedicine* DOI: 10.1016/j.phymed.2010.03.014. (**IF 2.174**)

14. Reverse phase- HPLC method for determination of marker compounds in NP-1 an anti-osteoporotic plant product from *Butea monosperma*: Varsha Gupta, Anil Kumar Dwivedi, Dinesh Kumar Yadav, **Manmeet Kumar,** Rakesh Maurya. *Natural product communication* 2009, 5 (1), 47-50. (**IF 0.766**)

15. Synthesis of novel isoxazolines via 1, 3-dipolar cycloaddition and evaluation of anti stress activity. Rakesh Maurya, Ausaf Ahmad, Prasoon Gupta, Kailash Chand, **Manmeet Kumar**, Jayendra, Preeti Rawat, Naila Rasheed, Gautam Palit (On line, *Medicinal Chemistry Research* DOI 10.1007/s00044-010-9299-0). (**IF 1.037**)

16. Phenolic glycosides from *Dodecadenia grandiflora* and their glucose-6-phosphatase inhibitory activity. **Manmeet Kumar**, Preeti Rawat, Mohammad Faheem Khan, Akhilesh K. Tamarkar, Arvind K. Srivastava, Kamal R. Arya, Rakesh Maurya (On line, *Fitoterapia* DOI:10.1016/j.fitote.2010.01.011. (**IF 1.363**)

17. Effects of methoxylated daidzeins, cladrin and formononetin on osteoblast function, peak bone mass achievement and bioavailability. Abnish Gautam, , Biju Bhargavan Divya Singh, Abdul Tyagi, Kamini Srivastava, Dinesh Yadav, **Manmeet Kumar,** Akanksha, Jay Sharan, Amar Singh, Sabyasachi Sanyal, Lakshmi Manickavasagam, Sheelendra Singh, Wahajuddin Wahajuddin, Girish Jain, Rakesh Maurya, Naibedya Chattopadhyay, (In Press, *Journal of Nutritional Biochemistry*). (**IF 4.288**)

Participated Symposia:

- "New antifungal flavonoid glycoside from *Vitex negundo"* Poster presented in "Current Trends in Drug Discovery Research" at Central Drug Research Institute Lucknow, India from 17th to 21st, February, 2007.
- International Herbal Conference "Herbal Medicine-Evaluation of Quality, Efficacy and Safety" at Bangalore, India from 26th to 28th February, 2009.
- 1st CDRI-NIPER (RBL) Symposium on Medicinal Chemistry and Pharmaceutical Sciences, at Central Drug Research Institute Lucknow from 24th to 26th March, 2009.
- Antihyperglycemic Constituents Of *Dodecadenia Grandiflora,* Poster presented in "Current Trends in Drug Discovery Research" at Central Drug Research Institute Lucknow, India from 17th to 21st, February, 2010.

Research Summary

Investigation of six Indian medicinal plants

Investigated six Indian medicinal plants (*Ulmus wallichiana, Dodecadenia grandiflora, Allophylus serratus, Cupressus sempervirens, Tinospora sinensis, Tectona grandis*) to identify anti-osteoporotic and anti-diabetic principle. Identified total seventy compounds including fifteen new chemical structure using 1D and 2D NMR spectroscopy from four medicinal plants. Isolated compounds were screened for anti-osteoporotic and anti-diabetic. Structures of new compound are given below.