



Department of Freshman Engineering

Faculty Profile

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Publications:

1. Doma Mahendhar Reddy, Jabeena Khazir, Parvinder Pal Singh, Gousia Chasoo, Ajay Mahajan, A.K. Saxena, M.S. Alam, H.M. Sampath Kumar. Design and synthesis of novel 1,2,3-triazole derivatives of parthenin as anticancer agents. Manuscript submitted to European Journal of Medicinal Chemistry.
2. Doma Mahendhar Reddy, Srikanth Miryala, Gousia Chasoo, A.K. Saxena, M.S. Alam, H.M. Sampath Kumar. Design and synthesis of novel 1,2,3-triazole derivatives of podophyllotoxin as anticancer agents. Manuscript submitted to European Journal of Medicinal Chemistry.
3. Doma Mahendhar Reddy, S.D. Sawant, Jada Srinivas, Parvinder Pal Singh, S. Tabasum, K. Anamika, G.N. Qazi and H.M. Sampath Kumar. Identification of novel immunomodulatory peptides from Indian fermented food derived from *Oryza sativa*. Indian Journal of Microbiology (accepted).
4. Jabeena Khazir, Parvinder Pal Singh, Doma Mahendhar Reddy, Syed Shafi, S.D Sawant, Gousia Chashoo, Ajay Mahajan, M.S. Alam, A.K Saxena, S. Arvinda, B.D Gupta, H.M. Sampath Kumar. Synthesis and anti-cancer activity of novel spiroisoxazoline and -isoxazolidine derivatives of α -santonin. European Journal of Medicinal Chemistry (Article in press).

5. S. Shafi, S. Singh, S. Haider, Doma Mahendhar Reddy, M.S. Alam, G. Narayana Swamy, H.M. Sampath Kumar. Synthesis of Triazole- and Isoxazole-Based Novel Unsymmetrical Bis-heterocycles. *Journal of Heterocyclic Chemistry* (Article in press).
6. Jada Srinivas, Doma Mahendhar Reddy, Parvinder Pal Singh, Suresh Kumar, Fayaz Malik, Akash Sharma, Inshad Ali Khan, G.N. Qazi, H.M. Sampath Kumar. Design and synthesis of novel magnolol derivatives as potential antimicrobial and antiproliferative compounds. *European Journal of Medicinal Chemistry* 51 (2012) 35- 41.
7. Doma Mahendhar Reddy, Naveed A. Qazi, Sanghpal D. Sawant, Abid H. Bandey, Jada Srinivas, Mannepalli Shankar, Shashank K. Singh, Monika Verma, Gousia Chashoo, Arpita Saxena, Dilip Mondhe, Ajit K. Saxena, V.K. Sethi, Subhash C. Taneja, Gulam N. Qazi. Design and synthesis of spiro derivatives of parthenin as novel anticancer agents. *European Journal of Medicinal Chemistry* 46 (2011) 3210-3217.
8. Doma Mahendhar Reddy, Jada Srinivas, Gousia Chashoo, Ajit K. Saxena, H.M. Sampath Kumar. 4 β -[(4-Alkyl)-1,2,3-triazol-1-yl] podophyllotoxins as anticancer compounds: Design, synthesis and biological evaluation. *European Journal of Medicinal Chemistry* 46 (2011) 1983-1991.
9. Tabasum Ismail, Syed Shafi, Amit Gupta, Anamika Khajuria, Tabasum Sidiq, Doma Mahendhar Reddy, M. Sarwar Alam, G.N. Qazi, H.M. Sampath Kumar. Study of the adjuvanticity of lysine lipopeptides: carbamate analogs elicit strong Th1 and Th2 response to ovalbumin in mice. *International Immunopharmacology* 11(2011) 1855 1863.
10. Parvinder Pal Singh, Naveed Ahmed Qazi, Syed Shafi, Doma Mahendhar Reddy, Abid H. Banday, P. Bhaskar Reddy, K.A. Suri, B.D. Gupta, N.K. Satti, Basant P. Wakhloo, H.M. Sampath Kumar, G.N. Qazi. Regio-selective acylation of biologically important iridoid glycosides by *Candida antarctica* lipase. *Journal of Molecular Catalysis B: Enzymatic* 56 (2009) 46-54.
11. . Abid H. Banday, Swarn Singh, M. Sarwar Alam, Doma Mahendhar Reddy, B. D. Gupta, H.M. Sampath Kumar. Synthesis of novel steroidal D-ring substituted isoxazoline derivatives of 17-oxoandrostanes. *Steroids* 73 (2008) 370-374.
12. H.M. Sampath Kumar, P.P. Singh, Syed Shafi, Pitta Bhaskar Reddy, Kankala Shrivankumar and Doma Mahendhar Reddy. Reaction of allenylmagnesium and allenylindium bromides with nitrile oxides: synthesis of novel 5-butyryl- and 5- methylisoxazoles. *Tetrahedron Letters* 48 (2007) 887–890.

List of patents

1. Novel hybrids of perfumery molecules with extremolytes, humectants and exfoliating agents for the development of new generation multiple action skin-beauty care bioconjugates. G. N. Qazi, H. M. Sampath Kumar, S. D. Sawant, Doma Mahendhar Reddy, A. H. Banday. Application No.656/DEL/2009 A.
2. Spiro derivatives of parthenin as novel anticancer agents: Design and synthesis. H.M. Sampath Kumar, A.K. Saxena, S.C. Taneja, Shashank Singh, V. K. Sethi, N A Qazi, S.D. Sawant, Doma Mahendhar Reddy, A. H. Banday, Monika Verma, G. N. Qazi. Patent application number: 20110201661

Presentations in national and international conferences:

1. APA International Congress on Advances in Human Healthcare Systems "Healthcare India 2012" February 20-23, 2012, New Delhi.
2. National symposium on "Chemistry in 21st century" at Guru Nanak Dev University, Amritsar, December 23-24, 2011.
3. International conference on "Organic synthesis and process chemistry-OSPC-2005" at IICT, Hyderabad, April 1-3, 2005.
4. National symposium on magnetic resonance and its applications- 08-11, October 2005, RRL-Jammu.