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Subjects	Natural products chemistry/Synthetic organic chemistry
Education and experience	<ul style="list-style-type: none"> <li>• Ph.D. (Chem.): CIMAP, Lucknow, 1998 (Advisor: Dr. Ram P. Sharma, FASc)</li> <li>• DAAD Post-Doctoral research in the group of Prof. Dr. R. R. Schmidt, Universitaet Konstanz, Germany (1999-2001)</li> <li>• Scientist, Division of Organic Chemistry, NCL, Pune (2005-till date)</li> </ul>
Achievements	<ul style="list-style-type: none"> <li>• Fellow, Maharashtra Academy of Sciences (<b>2012</b>).</li> <li>• Young Scientist Award of <i>Council of Science &amp; Technology</i>, Ministry of Science &amp; Technology, Government of Uttar Pradesh (<b>2003</b>).</li> <li>• DAAD Post-Doctoral Fellowship (<b>1999-2001</b>).</li> <li>• CSIR Shield for Process Technology for developing a production technology of antimalarial drug, artemisinin from the plant <i>Artemisia annua</i> (as team member, <b>1998</b>).</li> </ul>
Research Area	<ul style="list-style-type: none"> <li>• Chemistry of natural products</li> <li>• Chemical transformations of abundant natural products</li> <li>• Semi-synthesis of biologically active molecules from abundant natural products</li> <li>• Total synthesis of bioactive natural products</li> <li>• Design and synthesis of enzyme inhibitors</li> </ul>
Recent publications	<ul style="list-style-type: none"> <li>• Diversity-oriented synthesis of <math>\alpha</math>-aminophosphonates: a new class of potential anticancer agents, <b>A. K. Bhattacharya</b>,* D. S. Raut, K. C. Rana, I. K. Polanki, M. S. Khan and S. Iram, <i>Eur. J. Med. Chem.</i> <b>2013</b>, DOI: 10.1016/j.ejmec.2013.05.036 (in press).</li> <li>• Antimycobacterial agent, (<i>E</i>)-phytol and lauric amide from the plant <i>Lagascea mollis</i>, <b>A. K. Bhattacharya</b>* and K. C. Rana, <i>Ind. J. Chem., Sec. B</i> <b>2013</b> (in press).</li> <li>• An efficient synthesis of a hydroxyethylamine (HEA) isostere and its <math>\alpha</math>-aminophosphonate and phosphoramidate derivatives as potential anti-HIV agent, <b>A. K. Bhattacharya</b>,* K. C. Rana, C. Pannecouque and E. De Clercq, <i>ChemMedChem</i> <b>2012</b>, 7(9), 1601-1611.</li> <li>• <b>A. K. Bhattacharya</b>* and K. C. Rana, Design, synthesis and biological evaluation of peptidyl-vinylaminophosphonates as novel cysteine protease inhibitors, <i>Bioorg. Med. Chem.</i> <b>2011</b>, 19(23), 7129.</li> <li>• <b>A. K. Bhattacharya</b>,* K. C. Rana, D. S. Raut, V. P. Mhaindarkar and M. I. Khan, An efficient synthesis of benzodiazepinyl phosphonates as clostrypain inhibitors via <math>\text{FeCl}_3</math> catalyzed four-component reaction, <i>Org. Biomol. Chem.</i> <b>2011</b>, 9, 5407-5413 (<b>Cover Page Article</b>).</li> <li>• <b>A. K. Bhattacharya</b>* and K. C. Rana, Amberlite-IR 120 catalyzed three-component synthesis of <math>\alpha</math>-amino phosphonates in one-pot, <i>Tetrahedron Lett.</i> <b>2008</b>, 49(16), 2598-2601.</li> </ul>

