

Complete List of Publications

2023

101. Ansari, S.M.; Khanum, G.; Rizvi, M.A.; Reshi, N.U.D.; Ganie, M.A.; Javed, S.; Shah, B.A. Studies towards investigation of Naphthoquinone-based scaffold with crystal structure as lead for SARS-CoV-19 management. *Journal of Molecular Structure*, **2023**, *1283*, 135256

2022

100. Ganie, M.A.; Bhat, M.S.; Rizvi, M.A.; Raheem, S.; Shah, B.A. Synthesis of 1,2-oxazetidines with a free –NH group via photoredox catalysis. *Chem commun.*, **2022**, *58*, 8508-8511.

99. Kumar, J.; Ahmed, A.; Kumar, S.; Raheem, S.; Rizvi, M.A.; Shah, B.A. Visible light-mediated synthesis of α -alkoxy/hydroxy diarylacetaldehydes from terminal alkynes. *New J. Chem.*, **2022**, *46*, 10967-10973

98. Qayum, A.; Magotra, A.; Shah, S.M.; Nandi, U.; Sharma, P.R.; Shah, B.A.; Singh, S.K. Synergistic combination of PMBA and 5-fluorouracil (5-FU) in targeting mutant KRAS in 2D and 3D colorectal cancer cells. *Heliyon*, **2022**, *8*, e09103.

97. Mahajan, N.; Koul, B.; Gupta, P.; Shah, B.A.; Singh, J. *Psoralea corylifolia* L.: Panacea to several maladies. *South African Journal of Botany*, **2022**, *149*, 963-993

96. Kumar, S.; Kumar, J.; Naqvi, T.; Raheem, S.; Rizvi, M.A.; Shah, B. A. Synthesis of (E)- β -Iodovinyl Sulfones via Photoredox Catalyzed Difunctionalization of Terminal Alkynes. *ChemPhotoChem*, **2022**, *6*, e202200110.

95. Koul, B.; Kaur, J.; Bishnoi, M.; Gupta, P.; Kumar, A.; Shah, B.A.; Mubeen, I.; Rai, A.K.; Prasad, R.; Singh, J. Antiobesity Potential of Bioactive Constituents from Dichloromethane Extract of *Psoralea corylifolia* L. Seeds. *BioMed Research International*, **2022**, 9504787.

94. Qayum, A.; Singh, J.; Kumar, A.; Shah, S.M.; Srivastava, S.; Kushwaha, M.; Magotra, A.; Nandi, U.; Malik, R.; Shah, B.A.; Singh, S.K. 2-Pyridin-4-yl-methylene-beta-boswellic Acid-A Potential Candidate for Targeting O6-Methylguanine-DNA Methyltransferase Epi-transcriptional Reprogramming in KRAS G13D-Microsatellite Stable, G12V-Microsatellite Instable Mutant Colon Cancer. *ACS Pharmacol. Transl. Sci.* **2022**, *5*, 306-320.

93. Ganie, M.A.; Bhat, M.S.; Rizvi, M.A.; Raheem, S.; Shah, B.A. Photoredox-Promoted Selective Synthesis of C-5 Thiolated 2-Aminothiazoles from Terminal Alkynes. *Organic Letters*, **2022**, *24* (42), 7757-7762

92. Bhat, M.S.; Ganie, M.A.; Rizvi, M.A.; Raheem, S.; Shah, B.A. Photoredox Catalyzed Thioformylation of Terminal Alkynes Using Nitromethane as a Formyl Source. *Organic Letters*, **2022**, *24* (36), 6658-6663

91. Shah, I.H.; Kumar, S.; Kumar, J.; Raheem, S.; Rizvi, M.A.; **Shah, B.A.** Visible-Light-Mediated Synthesis of α -Halomethyl Ketones from Terminal Alkynes *ChemPhotoChem*, **2022**, *6*, e20210023

2021

90. Chalotra, N.; Shah, I.H.; Raheem, S.; Rizvi, M.A.; Shah, B.A. Visible-light-promoted oxidative annulation of naphthols and alkynes: Synthesis of functionalized naphthofurans. *J. Org. Chem.* **2021**, *86*, 23, 16770–16784

89. Qayum, A.; Singh, J.; Kushwaha, M.; Singh, S.; Shah, B.A. PMBA (2-pyridin-4-yl methylene beta-boswellic acid) selectivity in targeting mutant KRASG13D-MSS, G12V-MSI through MGMT immuno-epitranscriptional dynamics in Colon Cancer. *Cancer immunology research*, **2021** *9*.

88. Chalotra, N.; Kumar, J.; Naqvi, T.; Shah, B.A. Photocatalytic functionalizations of alkynes. *Chem. Commun.* **2021**, *57*, 11285–11300.

87. Manhas, F.M.; Kumar, J.; Raheem, S.; Thakur, P.; Rizvi, M.A.; Shah, B.A. Photoredox-Mediated Synthesis of β -Hydroxydithioacetals from Terminal Alkynes. *ChemPhotoChem* **2021**, *5*, 235–239

2020

86. Kumar, J.; Ahmad, A.; Rizvi, M. A.; Ganie, M. A.; Khajuria, C.; Shah, B. A. Photoredox-Mediated Synthesis of Functionalized Sulfoxides from Terminal Alkynes. *Organic Letters* **2020**, *22*, 5661–5665.

85. Chalotra, N.; Sultan, S.; Shah, B. A. Recent Advances in Photoredox Methods for Ketone Synthesis. *Asian Journal of Organic Chemistry* **2020**, *9*, 863–881.

2019

84. Chalotra, N.; Rizvi, M. A.; Shah, B. A. Photoredox-Mediated Generation of gem-Difunctionalized Ketones: Synthesis of α,α -Aminothioketones. *Organic Letters* **2019**, *21*, 4793–4797.

83. Sultan, S.; Bhat, M.-u.-S.; Rizvi, M. A.; Shah, B. A. Visible Light-Mediated [2 + 2] Cycloaddition Reactions of 1,4-Quinones and Terminal Alkynes. *The Journal of Organic Chemistry* **2019**, *84*, 8948–8958.

82. Sultan, S.; Shah, B. A. Carbon-Carbon and Carbon-Heteroatom Bond Formation Reactions Using Unsaturated Carbon Compounds. *The Chemical Record* **2019**, *19*, 644–660.

2018

81. Chalotra, N.; Ahmed, A.; Rizvi, M. A.; Hussain, Z.; Ahmed, Q. N.; Shah, B. A. Photoredox Generated Vinyl Radicals: Synthesis of Bisindoles and β -Carbolines. *The Journal of Organic Chemistry* **2018**, *83*, 14443–14456.

80. Sultan, S.; Rizvi, M. A.; Kumar, J.; Shah, B. A. Acyl Radicals from Terminal Alkynes: Photoredox-Catalyzed Acylation of Heteroarenes. *Chemistry – A European Journal* **2018**, *24*, 10617-10620.
79. Kouser, F.; Sharma, V. K.; Rizvi, M.; Sultan, S.; Chalotra, N.; Gupta, V. K.; Nandi, U.; Shah, B. A. Stereoselective synthesis of 3,4-di-substituted mercaptolactones via photoredox-catalyzed radical addition of thiophenols. *Tetrahedron Letters* **2018**, *59*, 2161-2166.
78. Gupta, S.; Ahsan, A. U.; Wani, A.; Khajuria, V.; Nazir, L. A.; Sharma, S.; Bhagat, A.; Raj Sharma, P.; Bhardwaj, S.; Peerzada, K. J.; Ali Shah, B.; Ahmed, Z. The amino analogue of β -boswellic acid efficiently attenuates the release of pro-inflammatory mediators than its parent compound through the suppression of NF- κ B/I κ B α signalling axis. *Cytokine* **2018**, *107*, 93-104.

2017

77. Ahmad, M.; Aga, M. A.; Bhat, J. A.; Kumar, B.; Rouf, A.; Capalash, N.; Minto, M. J.; Kumar, A.; Mahajan, P.; Mondhe, D. M.; Nargotra, A.; Sharma, P. R.; Zargar, M. A.; Vishwakarma, R. A.; Shah, B. A.; Taneja, S. C.; Hamid, A. Exploring Derivatives of Quinazoline Alkaloid l-Vasicine as Cap Groups in the Design and Biological Mechanistic Evaluation of Novel Antitumor Histone Deacetylase Inhibitors. *Journal of Medicinal Chemistry* **2017**, *60*, 3484-3497.
76. Deshidi, R.; Devari, S.; Kushwaha, M.; Gupta, A. P.; Sharma, R.; Chib, R.; Khan, I. A.; Jaglan, S.; Shah, B. A. Isolation and Quantification of Alternariols from Endophytic Fungus, *Alternaria alternata*: LC-ESI-MS/MS Analysis. *ChemistrySelect* **2017**, *2*, 364-368.
75. Dhamale, O. P.; Lawrence, R.; Wiegmann, E. M.; Shah, B. A.; Al-Mafraji, K.; Lamanna, W. C.; Lübke, T.; Dierks, T.; Boons, G.-J.; Esko, J. D. Arylsulfatase K is the Lysosomal 2-Sulfoglucuronate Sulfatase. *ACS Chem Biol* **2017**, *12*, 367-373.
74. Koul, M.; Kumar, A.; Deshidi, R.; Sharma, V.; Singh, R. D.; Singh, J.; Sharma, P. R.; Shah, B. A.; Jaglan, S.; Singh, S. Cladosporol A triggers apoptosis sensitivity by ROS-mediated autophagic flux in human breast cancer cells. *BMC Cell Biol* **2017**, *18*, 26-26.
73. Magotra, A.; Kumar, M.; Kushwaha, M.; Awasthi, P.; Raina, C.; Gupta, A. P.; Shah, B. A.; Gandhi, S. G.; Chaubey, A. Epigenetic modifier induced enhancement of fumiquinazoline C production in *Aspergillus fumigatus* (GA-L7): an endophytic fungus from *Grewia asiatica* L. *AMB Express* **2017**, *7*, 43.
72. Sultan, S.; Gupta, V.; Shah, B. A. Photoredox-Catalyzed Isatin Reactions: Access to Dibenzo-1,7-Naphthyridine Carboxylate and Tryptanthrin. *ChemPhotoChem* **2017**, *1*, 120-124.

2016

71. Deshidi, R.; Devari, S.; Rizvi, M.; Shah, B. A. Regio-Selective Phosphation and Phosphonation of 9-Fluorenones. *ChemistrySelect* **2016**, *1*, 6040-6043.

70. Devari, S.; Shah, B. A. Visible light-promoted C–H functionalization of ethers and electron-deficient arenes. *Chemical Communications* **2016**, *52*, 1490-1493.
69. Goswami, A.; Shah, B. A.; Batra, N.; Kumar, A.; Guru, S. K.; Bhushan, S.; Malik, F. A.; Joshi, A.; Singh, J. Multiple Pharmacological Properties of a Novel Parthenin Analog P16 as Evident by its Cytostatic and Antiangiogenic Potential Against Pancreatic Adenocarcinoma PANC -1 Cells. *Anticancer Agents Med Chem* **2016**, *16*, 771-780.
68. Kumar, A.; Qayum, A.; Sharma, P. R.; Singh, S. K.; Shah, B. A. Synthesis of β -boswellic acid derivatives as cytotoxic and apoptotic agents. *Bioorganic & Medicinal Chemistry Letters* **2016**, *26*, 76-81.
67. Pandey, A.; Rizvi, M.; Shah, B. A.; Bani, S. Anti-arthritis effect of Saponin-1 by alteration of Th1/Th2 cytokine paradigm in arthritic mice. *Cytokine* **2016**, *79*, 103-13.
66. Pathania, A. S.; Guru, S. K.; Kumar, S.; Kumar, A.; Ahmad, M.; Bhushan, S.; Sharma, P. R.; Mahajan, P.; Shah, B. A.; Sharma, S.; Nargotra, A.; Vishwakarma, R.; Korkaya, H.; Malik, F., Interplay between cell cycle and autophagy induced by boswellic acid analog. In *Sci Rep* 2016; Vol. 6, p 33146.
65. Sharma, S.; Gupta, S.; Khajuria, V.; Bhagat, A.; Ahmed, Z.; Shah, B. A. Analogues of boswellic acids as inhibitors of pro-inflammatory cytokines TNF- α and IL-6. *Bioorg Med Chem Lett* **2016**, *26*, 695-698.
64. Sharma, S.; Sultan, S.; Devari, S.; Shah, B. A. Radical–radical cross coupling reactions of photo-excited fluorenones. *Organic & Biomolecular Chemistry* **2016**, *14*, 9645-9649.
63. Sultan, S.; Kumar, M.; Devari, S.; Mukherjee, D.; Ali Shah, B. Copper–Manganese Spinel Oxide Catalyzed Synthesis of Amides and Azobenzenes via Aminyl Radical Cations. *ChemCatChem* **2016**, *8*, 703-707.
62. Devari, S. Visible light mediated chemo-selective oxidation of benzylic alcohols. *Tetrahedron letters* **2016**, *57*, 3294-3297.

2015

61. Deshidi, R.; Devari, S.; Shah, B. A. Metal free access to quinolines via C–C bond cleavage of styrenes. *Organic Chemistry Frontiers* **2015**, *2*, 515-519.
60. Deshidi, R.; Devari, S.; Shah, B. A. Iodine-Promoted Oxidative Amidation of Terminal Alkenes – Synthesis of α -Ketoamides, Benzothiazoles, and Quinazolines. *European Journal of Organic Chemistry* **2015**, 1428-1432.
59. Deshidi, R.; Rizvi, M. A.; Shah, B. A. Highly efficient dehydrogenative cross-coupling of aldehydes with amines and alcohols. *RSC Advances* **2015**, *5*, 90521-90524.
58. Devari, S.; Kumar, A.; Deshidi, R.; Shah, B. A. C–H functionalization of terminal alkynes towards stereospecific synthesis of (E) or (Z) 2-methylthio-1,4-ene-diones. *Chemical Communications* **2015**, *51*, 5013-5016.
57. Guru, S. K.; Pathania, A. S.; Kumar, S.; Ramesh, D.; Kumar, M.; Rana, S.; Kumar, A.; Malik, F.; Sharma, P. R.; Chandan, B. K.; Jaglan, S.; Sharma, J. P.; Shah, B. A.; Tasduq, S. A.; Lattoo, S. K.; Faruk, A.; Saxena, A. K.; Vishwakarma, R. A.; Bhushan, S. Secalonic

- Acid-D Represses HIF1 α /VEGF-Mediated Angiogenesis by Regulating the Akt/mTOR/p70S6K Signaling Cascade. *Cancer Research* **2015**, *75*, 2886-2896.
56. Kumar, A.; Kumar, M.; Sharma, S.; Guru, S. K.; Bhushan, S.; Shah, B. A. Design and synthesis of a new class of cryptophycins based tubulin inhibitors. *European Journal of Medicinal Chemistry* **2015**, *93*, 55-63.
55. Kumar, A.; Shah, B. A. Synthesis of Biaryls via Benzylic C–C Bond Cleavage of Styrenes and Benzyl Alcohols. *Organic Letters* **2015**, *17*, 5232-5235.
54. Kumar, M.; Devari, S.; Kumar, A.; Sultan, S.; Ahmed, Q. N.; Rizvi, M.; Shah, B. A. Copper(II)-Triflate-Catalyzed Oxidative Amidation of Terminal Alkynes: A General Approach to α -Ketoamides. *Asian Journal of Organic Chemistry* **2015**, *4*, 438-441.
53. Kumar, M.; Kumar, A.; Rizvi, M. A.; Shah, B. A. Acetaldehyde in asymmetric organocatalytic transformations. *RSC Advances* **2015**, *5*, 55926-55937.
52. Qazi, A. K.; Hussain, A.; Khan, S.; Aga, M. A.; Behl, A.; Ali, S.; Singh, S. K.; Taneja, S. C.; Shah, B. A.; Saxena, A. K.; Mondhe, D. M.; Hamid, A. Quinazoline based small molecule exerts potent tumour suppressive properties by inhibiting PI3K/Akt/FoxO3a signalling in experimental colon cancer. *Cancer Letters* **2015**, *359*, 47-56.
51. Qadri M.; Deshidi R.; Shah B.A.; Bindu K.; Vishwakarma R.A.; Riyaz-Ul-Hassan S. *World Journal of Microbiology and Biotechnology*, **2015**, *75*, 2886.
50. Rizvi, M. A.; Zaki, M.; Afzal, M.; Mane, M.; Kumar, M.; Shah, B. A.; Srivastav, S.; Srikrishna, S.; Peerzada, G. M.; Tabassum, S. Nuclear blebbing of biologically active organoselenium compound towards human cervical cancer cell (HeLa): In vitro DNA/HSA binding, cleavage and cell imaging studies. *European Journal of Medicinal Chemistry* **2015**, *90*, 876-888.
- 2014**
49. Deshidi, R.; Kumar, M.; Devari, S.; Shah, B. A. A general metal free approach to α -ketoamides via oxidative amidation–diketonization of terminal alkynes. *Chemical Communications* **2014**, *50*, 9533-9535.
48. Chib, R.; Kumar, M.; Rizvi, M.; Sharma, S.; Pandey, A.; Bani, S.; Andotra, S. S.; Taneja, S. C.; Shah, B. A. Anti-inflammatory terpenoids from *Boswellia ovalifoliolata*. *RSC Advances* **2014**, *4*, 8632-8637.
47. Aga, M. A.; Kumar, B.; Rouf, A.; Shah, B. A.; Taneja, S. C. Vasicine as tridentate ligand for enantioselective addition of diethylzinc to aldehydes. *Tetrahedron Letters* **2014**, *55*, 2639-2641.
46. Devari, S.; Jaglan, S.; Kumar, M.; Deshidi, R.; Guru, S.; Bhushan, S.; Kushwaha, M.; Gupta, A. P.; Gandhi, S. G.; Sharma, J. P.; Taneja, S. C.; Vishwakarma, R. A.; Shah, B. A. Capsaicin production by *Alternaria alternata*, an endophytic fungus from *Capsicum annum*; LC-ESI-MS/MS analysis. *Phytochemistry* **2014**, *98*, 183-9.
45. Gupta, P.; Rouf, A.; Shah, B. A.; Mahajan, N.; Chaubey, A.; Taneja, S. C. *Arthrobacter* sp. lipase catalyzed kinetic resolution of BINOL: The effect of substrate immobilization. *Journal of Molecular Catalysis B: Enzymatic* **2014**, *101*, 35-39.
44. Kumar, B.; Aga, M. A.; Rouf, A.; Shah, B. A.; Taneja, S. C. Common precursor strategy for the synthesis of bestatin, amprenavir intermediate and syn-4-hydroxy-5-phenyl- γ -lactam. *RSC Advances* **2014**, *4*, 17206-17209.
43. Kumar, B.; Aga, M. A.; Rouf, A.; Shah, B. A.; Taneja, S. C. Tetrahydropyranyl ether (THPE) formation in hydroxyl group protection and conversion to other useful functionalities. *RSC Advances* **2014**, *4*, 21121-21130.

42. Kumar, M.; Kumar, A.; Rizvi, M.; Mane, M.; Vanka, K.; Taneja, S. C.; Shah, B. A. Synthesis of α,β -Unsaturated δ -Lactones by Vinyl Acetate Mediated Asymmetric Cross-Aldol Reaction of Acetaldehyde: Mechanistic Insights. *European Journal of Organic Chemistry* **2014**, 2014, 5247-5255.
41. Rasool, S.; Rasool, V.; Naqvi, T.; Ganai, B. A.; Shah, B. A. Genetic unraveling of colorectal cancer. *Tumour Biology* **2014**, 35, 5067-5082.
40. Rizvi, M. A.; Guru, S.; Naqvi, T.; Kumar, M.; Kumbhar, N.; Akhoun, S.; Banday, S.; Singh, S. K.; Bhushan, S.; Mustafa Peerzada, G.; Shah, B. A. An investigation of in vitro cytotoxicity and apoptotic potential of aromatic diselenides. *Bioorganic & Medicinal Chemistry Letters* **2014**, 24, 3440-3446.
39. Sharma, S.; Ahmad, M.; Bhat, J. A.; Kumar, A.; Kumar, M.; Zargar, M. A.; Hamid, A.; Shah, B. A. Design, synthesis and biological evaluation of β -boswellic acid based HDAC inhibitors as inducers of cancer cell death. *Bioorganic & Medicinal Chemistry Letters* **2014**, 24, 4729-4734.
38. Goswami, A.; Shah, B.A.; Kumar, A.; Rizvi, M.A.; Kumar, S., Bhushan, S., Malik, F.A., Batra, N., Joshi, A., Singh, J. Antiproliferative novel parthenin analog P16 as evident by apoptosis accompanied by down-regulation of PI3K/AKT and ERK pathways in human acute lymphoblastic leukemia MOLT-4 cells. *Chemico-Biological Interactions* **2014**, 222, 60.
37. Devari, S.; Kumar, M.; Deshidi, R.; Rizvi, M.; Shah, B.A. A general metal-free approach for the stereoselective synthesis of C-glycals from unactivated alkynes. *Beilstein Journal of Organic Chemistry*, **2014**, 10, 2649.

2013

36. Aga, M. A.; Kumar, B.; Rouf, A.; Shah, B. A.; Andotra, S. S.; Taneja, S. C. Natural (-)-Vasicine as a Novel Source of Optically Pure 1-Benzylpyrrolidin-3-ol. *Helvetica Chimica Acta* **2013**, 96, 969-977.
35. Chib, R.; Shah, B. A.; Andotra, S. S.; Bharadwaj, V.; Gupta, R. K.; Taneja, S. C.; Khajuria, R. K. Quantification of Sesquiterpene Lactones in *Parthenium hysterophorous* by Normal-Phase HPLC. *Journal of Chromatographic Science* **2013**, 51, 950-953.
34. Devari, S.; Deshidi, R.; Kumar, M.; Kumar, A.; Sharma, S.; Rizvi, M.; Kushwaha, M.; Gupta, A. P.; Shah, B. A. Osmium (VI) catalyzed chemoselective oxidation of allylic and benzylic alcohols. *Tetrahedron Letters* **2013**, 54, 6407-6410.
33. Kumar, M.; Qadri, M.; Sharma, P. R.; Kumar, A.; Andotra, S. S.; Kaur, T.; Kapoor, K.; Gupta, V. K.; Kant, R.; Hamid, A.; Johri, S.; Taneja, S. C.; Vishwakarma, R. A.; Riyaz-Ul-Hassan, S.; Shah, B. A. Tubulin Inhibitors from an Endophytic Fungus Isolated from *Cedrus deodara*. *Journal of Natural Products* **2013**, 76, 194-199.
32. Mehra, R.; Nargotra, A.; Shah, B. A.; Taneja, S. C.; Vishwakarma, R. A.; Koul, S. Pro-apoptotic properties of parthenin analogs: a quantitative structure-activity relationship study. *Medicinal Chemistry Research* **2013**, 22, 2303-2311.
31. Pathania, A. S.; Joshi, A.; Kumar, S.; Guru, S. K.; Bhushan, S.; Sharma, P. R.; Bhat, W. W.; Saxena, A. K.; Singh, J.; Shah, B. A.; Andotra, S. S.; Taneja, S. C.; Malik, F. A.; Kumar, A. Reversal of boswellic acid analog BA145 induced caspase dependent apoptosis by PI3K inhibitor LY294002 and MEK inhibitor PD98059. *Apoptosis* **2013**, 18, 1561-1573.
30. Qadri, M.; Johri, S.; Shah, B. A.; Khajuria, A.; Sidiq, T.; Lattoo, S. K.; Abdin, M. Z.; Riyaz-Ul-Hassan, S. Identification and bioactive potential of endophytic fungi isolated from selected plants of the Western Himalayas. *SpringerPlus* **2013**, 2, 8.

29. Qurishi, Y.; Hamid, A.; Sharma, P. R.; Wani, Z. A.; Mondhe, D. M.; Singh, S. K.; Zargar, M. A.; Andotra, S. S.; Shah, B. A.; Taneja, S. C.; Saxena, A. K. NF- κ B down-regulation and PARP cleavage by novel 3- α -butyryloxy- β -boswellic acid results in cancer cell specific apoptosis and in vivo tumor regression. *Anticancer Agents Med Chem* **2013**, *13*, 777-790.
28. Gupta, P.; Rouf, A.; Shah, B.A.; Mukherjee D.; Taneja S.C. Efficient preparation of biologically important 1,2-amino alcohols. *Synthetic Communications* **2013**, *43*, 505.

2012

27. Kant, R.; Gupta, V. K.; Kapoor, K.; Chib, R.; Shah, B. A.; Taneja, S. C. 1,2,3,4,5,6-Hexa-O-acetyl-scylo-inositol. *Acta Crystallogr Sect E Struct Rep Online* **2012**, *68*, o2594.
26. Khan, S.; Kaur, R.; Shah, B. A.; Malik, F.; Kumar, A.; Bhushan, S.; Jain, S. K.; Taneja, S. C.; Singh, J. A Novel cyano derivative of 11-Keto- β -Boswellic acid causes apoptotic death by disrupting PI3K/AKT/Hsp-90 cascade, mitochondrial integrity, and other cell survival signaling events in HL-60 cells. *Molecular Carcinogenesis* **2012**, *51*, 679-695.
25. Kumar, A.; Shah, B. A.; Singh, S.; Hamid, A.; Singh, S. K.; Sethi, V. K.; Saxena, A. K.; Singh, J.; Taneja, S. C. Acyl derivatives of boswellic acids as inhibitors of NF- κ B and STATs. *Bioorg Med Chem Lett* **2012**, *22*, 431-435.
24. Qurishi, Y.; Hamid, A.; Sharma, P.; Wani, Z.; Mondhe, D.; Zargar, M.; Andotra, S.; Shah, B.; Taneja, S.; Saxena, A. PARP cleavage and perturbation in mitochondrial membrane potential by 3- α -propionyloxy- β -boswellic acid results in cancer cell death and tumor regression in murine models. *Future Oncology* **2012**, *8*, 867-881.

2011

23. Kumar, M.; Shah, B. A.; Taneja, S. C. Tandem Catalysis by Lipase in a Vinyl Acetate-Mediated Cross-Aldol Reaction. *Advanced Synthesis & Catalysis* **2011**, *353*, 1207-1212.
22. Anand, N.; Shah, B. A.; Kapoor, M.; Parshad, R.; Sharma, R. L.; Hundal, M. S.; Pannu, A. P. S.; Bharatam, P. V.; Taneja, S. C. Entrapment and kinetic resolution of stabilized axial and equatorial conformers of spiro- β -lactams. *The Journal of organic chemistry* **2011**, *76*, 5999-6006.
21. Kumar, B.; Aga, M. A.; Rouf, A.; Shah, B. A.; Taneja, S. C. 2,3-Unsaturated allyl glycosides as glycosyl donors for selective α -glycosylation. *The Journal of organic chemistry* **2011**, *76*, 3506-3510.
20. Kaur, R.; Khan, S.; Chib, R.; Kaur, T.; Sharma, P. R.; Singh, J.; Shah, B. A.; Taneja, S. C. A comparative study of proapoptotic potential of cyano analogues of boswellic acid and 11-keto-boswellic acid. *European Journal of Medicinal Chemistry* **2011**, *46*, 1356-1366.
19. Kumar, A.; Malik, F.; Bhushan, S.; Shah, B. A.; Taneja, S. C.; Pal, H. C.; Wani, Z. A.; Mondhe, D. M.; Kaur, J.; Singh, J. A novel parthenin analog exhibits anti-cancer activity: Activation of apoptotic signaling events through robust NO formation in human leukemia HL-60 cells. *Chemico-Biological Interactions* **2011**, *193*, 204-215.
18. Chashoo, G.; Singh, S. K.; Sharma, P. R.; Mondhe, D. M.; Hamid, A.; Saxena, A.; Andotra, S. S.; Shah, B. A.; Qazi, N. A.; Taneja, S. C.; Saxena, A. K. A propionyloxy derivative of 11-keto- β -boswellic acid induces apoptosis in HL-60 cells mediated through topoisomerase I & II inhibition. *Chemico-Biological Interactions* **2011**, *189*, 60-71.
17. Raja, A. F.; Ali, F.; Khan, I. A.; Shawl, A. S.; Arora, D. S.; Shah, B. A.; Taneja, S. C. Antistaphylococcal and biofilm inhibitory activities of acetyl-11-keto- β -boswellic acid from *Boswellia serrata*. *BMC Microbiology* **2011**, *11*, 54.
16. Khan, S.; Chib, R.; Shah, B. A.; Wani, Z. A.; Dhar, N.; Mondhe, D. M.; Lattoo, S.; Jain, S. K.; Taneja, S. C.; Singh, J. A cyano analogue of boswellic acid induces crosstalk between

p53/PUMA/Bax and telomerase that stages the human papillomavirus type 18 positive HeLa cells to apoptotic death. *Eur J Pharmacol* **2011**, *660*, 241-248.

15. Chashoo, G.; Singh, S. K.; Mondhe, D. M.; Sharma, P. R.; Andotra, S. S.; Shah, B. A.; Taneja, S. C.; Saxena, A. K. Potentiation of the antitumor effect of 11-keto- β -boswellic acid by its 3- α -hexanoyloxy derivative. *Eur J Pharmacol* **2011**, *668*, 390-400.
14. Chib, R.; Shah, B. A.; Anand, N.; Pandey, A.; Kapoor, K.; Bani, S.; Gupta, V. K.; Rajnikant; Sethi, V. K.; Taneja, S. C. Psilostachyin, acetylated pseudoguaianolides and their analogues: preparation and evaluation of their anti-inflammatory potential. *Bioorg Med Chem Lett* **2011**, *21*, 4847-4851.
13. Kapoor, K.; Gupta, V.; Shah, B.; Andotra, S.; Taneja, S. Crystal Structure of 3,8-Dibromo-3-(bromomethyl)-3,3a,4,5,6,6a-hexahydro-6a-hydroxy-6,9a-dimethylazuleno[4,5-b]furan-2,9-dione—A Sesquiterpene Lactone. *X-ray Structure Analysis Online* **2011**, *27*, 67-68.
12. Kapoor, K.; Gupta, V.K.; Rajnikant; Chib, R.; Shah, B. A.; Taneja, S.C. Crystal structure of methyl-2-cyano-3,11-dioxurs-1,12-dien-24-oate. *X-ray Structural Analysis Online* **2011**, *27*, 43-44.

2009

11. Bhat, K. A.; Shah, B. A.; Gupta, K. K.; Pandey, A.; Bani, S.; Taneja, S. C. Semi-synthetic analogs of pinitol as potential inhibitors of TNF- α cytokine expression in human neutrophils. *Bioorganic & Medicinal Chemistry Letters* **2009**, *19*, 1939-1943.
10. Shah, B. A.; Chib, R.; Gupta, P.; Sethi, V. K.; Koul, S.; Andotra, S. S.; Nargotra, A.; Sharma, S.; Pandey, A.; Bani, S.; Purnima, B.; Taneja, S. C. Saponins as novel TNF- α inhibitors: isolation of saponins and a nor-pseudoguaianolide from *Parthenium hysterophorus*. *Organic & Biomolecular Chemistry* **2009**, *7*, 3230-3235.
9. Shah, B. A.; Kaur, R.; Gupta, P.; Kumar, A.; Sethi, V. K.; Andotra, S. S.; Singh, J.; Saxena, A. K.; Taneja, S. C. Structure-activity relationship (SAR) of parthenin analogues with pro-apoptotic activity: Development of novel anti-cancer leads. *Bioorg Med Chem Lett* **2009**, *19*, 4394-4398.
8. Shah, B. A.; Qazi, G. N.; Taneja, S. C. Boswellic acids: a group of medicinally important compounds. *Natural Product Reports* **2009**, *26*, 72-89.

2008

7. Gupta, P.; Taneja, S. C.; Shah, B. A.; Mukherjee, D.; Parshad, R.; Chimni, S. S.; Qazi, G. N. An expedient chemo-enzymatic method for the synthesis of optically active masked 1,2-amino alcohols. *Tetrahedron: Asymmetry* **2008**, *19*, 1898-1903.

2007

6. Gupta, P.; Sethi, V. K.; Taneja, S. C.; Shah, B. A.; Andotra, S. S.; Koul, S.; Chimni, S. S.; Qazi, G. N. Odoriferous Cyclic Ethers via Co-Halogenation Reaction: Facile Preparation of Nerol Oxide, Florol®, Florol® Methyl Ether, and Pityol® Methyl Ether. *Helvetica Chimica Acta* **2007**, *90*, 196-204.

5. Gupta, P.; Shah, B. A.; Parshad, R.; Qazi, G. N.; Taneja, S. C. A facile approach towards enantiomerically pure masked β -amino alcohols. *Green Chemistry* **2007**, *9*, 1120-1125.
4. Gupta, P.; Taneja, S.; Shah, B.; Sethi, V.; Qazi, G. Lipase-catalyzed Separation of Geometrical Isomers: Geraniol–Nerol. *Chemistry Letters - CHEM LETT* **2007**, *36*, 1110-1111.
3. Mukherjee, D.; Ali Shah, B.; Gupta, P.; Taneja, S. C. Tandem Acetalation–Acetylation of Sugars and Related Derivatives with Enolacetates under Solvent-Free Conditions. *The Journal of Organic Chemistry* **2007**, *72*, 8965-8968.
2. Shah, B. A.; Kumar, A.; Gupta, P.; Sharma, M.; Sethi, V. K.; Saxena, A. K.; Singh, J.; Qazi, G. N.; Taneja, S. C. Cytotoxic and apoptotic activities of novel amino analogues of boswellic acids. *Bioorganic & Medicinal Chemistry Letters* **2007**, *17*, 6411-6416.
1. Shah, B. A.; Taneja, S. C.; Sethi, V. K.; Gupta, P.; Andotra, S. S.; Chimni, S. S.; Qazi, G. N. The formation of novel 1,3-dioxolanes: atypical Baylis–Hillman reaction of a sesquiterpene lactone parthenin. *Tetrahedron Letters* **2007**, *48*, 955-960.

Articles in Book:

1. **Bhahwal Ali Shah**, Majid Ahmad Ganie, Muneer-ul-Shafi Bhat, Sourav Kumar. Handbook of C-H Functionalization; “Visible –Light Mediated C-H Functionalization of Heteroarenes” Eds D. Maiti, Wiley, **2022**, ISBN: 9783527834242.
2. **Bhahwal Ali Shah** and Subhash Chandra Taneja. In Compendium of bioactive natural products; “Structural modifications of parthenin; a sesquiterpene lactone of immense biological potential” Eds. S.C. Taneja, V.K. Gupta & B.D. Gupta, Studium Press, USA, **2010**, Vol. 7, p45-76.
3. **Bhahwal Ali Shah** and Subhash Chandra Taneja. In Compendium of bioactive natural products; “Biological prospective of pinitol and its structurally modified products” Eds. S.C. Taneja, V.K. Gupta & B.D. Gupta, Studium Press, USA, **2010**, Vol. 7, p247-266.

Patents:

7. V. Babu, R.V. Singh, H. Sharma, A. Kumar, S. Sultan, V. P. Singh, Bhahwal Ali Shah, P. P. Singh, Novel process for the enzymatic synthesis of vorinostat and its derivatives thereof. IN 201911047261
6. D. M. Mondhe; S. C. Taneja; S. Koul; J. K. Dhar; A. K. Saxena; R. K. Johri; Z. A. Wani; S. S. Andotra; S. C. Sharma; S. Singh; P. N. Gupta; Bhahwal Ali Shah; R. A. Vishwakarma. A novel formulation useful in cancer chemotherapy. Indian Patent Filed: 2554DEL2012.
5. G. N. Qazi; S. C. Taneja; J. Singh; A. K. Saxena; V. K. Sethi; Bhahwal Ali Shah; , A. Kumar; S. S. Andotra; F. Malik; S. Muthiah; S. K. Agrawal; semi-synthetic sesquiterpene lactone parthenin compound useful for cytotoxicity against cancer cell lines and anticancer activity. WO Patent Application No. PCT/IN2009/000218.
4. G. N. Qazi; S. C. Taneja; J. Singh; A. K. Saxena; V. K. Sethi; Bhahwal Ali Shah; B. K. Kapahi; S. S. Andotra; A. Kumar; S. Bhushan; F. Malik; D. M. Mondhe; M. Shanmugavel; S. Singh; M. Verma; S. K. Singh; cytotoxicity and induction of apoptosis in cancer cells by

semi-synthetic analogues of boswellic acids for their use as anti-cancer agents. US Patent Application No. 12/401337.

3. G. N. Qazi; S. C. Taneja; J. Singh; A. K. Saxena; V. K. Sethi; Bhahwal Ali Shah; A. Kumar; S. S. Andotra; F. Malik; S. Muthiah; S. K.. Agrawal; semi-synthetic sesquiterpene lactone parthenin compound useful for cytotoxicity against cancer cell lines and anticancer activity. Indian Patent Filed: 0840DEL2008.
2. G. N. Qazi; S. C. Taneja; J. Singh; A. K. Saxena; V. K. Sethi; Bhahwal Ali,Shah; A. Kumar; S. S. Andotra; F. Malik; S. Muthiah; S. K.. Agrawal; semi-synthetic sesquiterpene lactone parthenin compound useful for anti-cancer activity. Indian Patent Filed: 0839DEL2008.
1. G. N. Qazi; S. C. Taneja; J. Singh; A. K. Saxena; V. K. Sethi; Bhahwal Ali Shah; B. K. Kapahi; S. S. Andotra; A. Kumar; S. Bhushan; F. Malik , D. M. Mondhe; M. Shanmugavel; S. Singh ; M. Verma; S. K. Singh; in vitro and in vivo anti-cancer activity of semi-synthetic compound. Indian Patent Filed: 0606DEL2008.