

Publications (List of papers published in SCI Journals, in year wise descending order)

S.No.	Publication Details	Impact factor
1.	Ajay Kumar , Kant S, Singh SM. (2012) Novel molecular mechanisms of antitumor action of dichloroacetate against T cell lymphoma: Implication of altered glucose metabolism, pH homeostasis and cell survival regulation. Chemico-biological Interactions . 199, 29-37.	5.168
2.	Ajay Kumar , Kant S, Singh SM. (2013) Antitumor and chemosensitizing action of Dichloroacetate implicates modulation of tumor microenvironment: a role of reorganized glucose metabolism, cell survival regulation and macrophage differentiation. Toxicology and Applied Pharmacology . 273, 196-208.	4.460
3.	Ajay Kumar , Kant S, Singh SM. (2013) Targeting monocarboxylate transporter by α -cyano-4-hydroxycinnamate modulates apoptosis and cisplatin resistance of Colo205 cells: implication of altered cell survival regulation. Apoptosis . 18, 1574-1585.	5.561
4.	Ajay Kumar , Kant S, Singh SM. (2013) α -cyano-4-hydroxycinnamate induces apoptosis in Dalton's lymphoma cells: Role of altered cell survival regulatory mechanisms. Anticancer Drugs . 24, 158-171.	2.248
5.	Kant S, Ajay Kumar , Singh SM. (2012) Fatty acid synthase inhibitor orlistat induces apoptosis in T cell lymphoma: role of cell survival regulatory molecules. Biochimica et Biophysica Acta (BBA)-General Subjects . 820, 1764-1773.	4.117
6.	Vishvakarma NK, Kumar A, Ajay Kumar , Kant S, Bharti AC, Singh SM (2012) Myelopotentiating effect of curcumin in tumor-bearing host: Role of bone marrow resident macrophages. Toxicology and Applied Pharmacology . 263, 111-121.	4.460
7.	Kant S, Ajay Kumar , Singh SM (2013) Tumor growth retardation and chemosensitizing action of fatty acid synthase inhibitor orlistat on T cell lymphoma: Implication of reconstituted tumor microenvironment and multidrug resistance phenotype. Biochimica et Biophysica Acta (BBA)-General Subjects . 1840, 294- 302.	4.117
8.	Kant S, Ajay Kumar , Singh SM. (2013) Myelopoietic efficacy of orlistat in murine hosts bearing T cell lymphoma: implication in macrophage differentiation and activation. PLoS One . 8, e82396.	3.752
9.	Kant S, Ajay Kumar , Singh SM. (2014) Bicarbonate transport inhibitor SITS modulates pH homeostasis triggering apoptosis of Dalton's lymphoma: implication of novel molecular mechanisms. Molecular and Cellular Biochemistry . 397, 167-178.	3.842
10.	Yun CC, Ajay Kumar . (2015) Diverse roles of LPA signaling in the intestine epithelium. Experimental Cell Research . 333, 201-207.	4.145
11.	No YR, Lee SJ, Ajay Kumar , Yun CC. (2015) HIF1 α -Induced by Lysophosphatidic Acid Is Stabilized via Interaction with MIF and CSN5. PLoS One . 10:e0137513.	3.752
12.	Yadav S, Pandey SK, Singh VK, Goel Y, Ajay Kumar , Singh SM. (2017) Molecular docking studies of 3-bromopyruvate and its derivatives to metabolic regulatory enzymes: Implication in designing of novel anticancer therapeutic strategies. PLoS One . 12:e0176403.	3.752
13.	Yadav S, Pandey SK, Ajay Kumar , Kujur PK, Singh RP, Singh SM. (2017) Antitumor and chemosensitizing action of 3-bromopyruvate: Implication of deregulated metabolism. Chemico-biological Interactions . 270, 73-89.	5.168
14.	Yadav S, Kujur PK, Pandey SK, Goel Y, Maurya BN, Verma A, Ajay Kumar , Singh RP, Singh SM. (2018). Antitumor action of 3-bromopyruvate implicates reorganized tumor growth regulatory components of tumor milieu, cell cycle arrest and induction of mitochondria-dependent tumor cell death. Toxicology and Applied Pharmacology , 339, 52-64.	4.460

15.	Yadav S, Pandey SK, Goel Y, Kujur PK, Ajay Kumar , Singh RP, Singh SM. (2018) Protective and recuperative effects of 3-bromopyruvate on immunological, hepatic and renal homeostasis in a murine host bearing ascitic lymphoma: Implication of niche dependent differential roles of macrophages. Biomedicine and pharmacotherapy . 99, 970-985.	7.419
16.	Gupta VK, Jaiswara P, Ajay Kumar* (2018) The Emerging Role of miRNAs in Tumor Acidosis. <i>J Cell Biol Cell Metab</i> 5: 015. (*Corresponding author)	
17.	Sonker P, Ajay Kumar* (2019) Tumor Metabolism: An Emerging Therapeutic Target for Cancer Treatment. <i>International Journal of Zoology and Animal Biology</i> 2: 05. (*Corresponding author)	1.7594
18.	Gupta VK, Jaiswara PK, Sonker P, Rawat SG, Tiwari RK, Ajay Kumar* (2020) Lysophosphatidic acid promotes survival of T lymphoma cells by altering apoptosis and glucose metabolism. Apoptosis . 25(1-2):135-150. (*Corresponding author)	5.561
19.	Soni VK, Shukla D, Ajay Kumar , Vishvakarma NK (2020). Curcumin circumvent lactate-induced chemoresistance in hepatic cancer cells through modulation of hydroxycarboxylic acid receptor-1. The International Journal of Biochemistry & Cell Biology . 123, 105752.	5.652
20.	Priyadarshi K, Shirsath K, Waghela NB, Sharma A, Ajay Kumar , Pathak C (2021). Surface modified PAMAM dendrimers with gallic acid inhibit, cell proliferation, cell migration and inflammatory response to augment apoptotic cell death in human colon carcinoma cells. Journal of Biomolecular Structure and Dynamics . 39(18):6853-6869.	5.235
21.	Vaidya FU, Sufiyan Chhipa A, Mishra V, Gupta VK, Rawat SG, Ajay Kumar , Pathak C. Molecular and cellular paradigms of multidrug resistance in cancer. CancerReports (Hoboken) . 2020 Oct 13:e1291.	
22.	Jaiswara PK, Gupta VK, Sonker P, Rawat SG, Tiwari RK, Pathak C, Kumar S, Ajay Kumar* (2021). Nimbolide induces cell death in T lymphoma cells: Implication of altered apoptosis and glucose metabolism. Environmental Toxicology . 36, 628-641. (*Corresponding author)	4.109
23.	Al-Mujaini A, Maurya RP, Bosak S, Karan MK, Roy M, Singh VP, Singh MK, Ajay Kumar , Singh S. (2021) Clinicopathological Analysis and Demographic Features of Ocular Malignancies. Clinical Ophthalmology . 29;15:357-365.	
24.	Goel Y, Yadav S, Pandey SK, Temre MK, Singh VK, Ajay Kumar , Singh SM (2021) Methyl Jasmonate Cytotoxicity and Chemosensitization of T Cell Lymphoma <i>In Vitro</i> Is Facilitated by HK 2, HIF-1 α , and Hsp70: Implication of Altered Regulation of Cell Survival, pH Homeostasis, Mitochondrial Functions. Frontiers in Pharmacology . 12:628329.	5.988
25.	Goel Y, Yadav S, Pandey SK, Temre MK, Maurya BN, Verma A, Ajay Kumar , Singh SM (2021) Tumor Decelerating and Chemo-Potentiating Action of Methyl Jasmonate on a T Cell Lymphoma <i>In Vivo</i> : Role of Altered Regulation of Metabolism, Cell Survival, Drug Resistance, and Intratumoral Blood Flow. Frontiers in Oncology . 11:619351.	5.738
26.	Soni VK, Mehta A, Ratre YK, Chandra V, Shukla D, Ajay Kumar , Vishvakarma NK (2021) Counteracting Action of Curcumin on High Glucose-Induced Chemoresistance in Hepatic Carcinoma Cells. Frontiers in Oncology . 11:738961.	5.738
27.	Jaiswara PK, Ajay Kumar* (2022) Nimbolide retards T cell lymphoma progression by altering apoptosis, glucose metabolism, pH regulation, and ROS homeostasis. Environmental Toxicology . 37(6):1445-1457. (*Corresponding author)	4.109
28.	Verma A, Gupta P, Rai N, Tiwari RK, Ajay Kumar , Salvi P, Gautam V (2022) Assessment of biological activities of fungal endophytes derived bioactive compounds isolated from <i>Amoora rohituka</i> . Journal of Fungi . 8(3):285.	5.724
29.	Rai N, Gupta P, Keshri PK, Verma A, Mishra P, Kumar D, Ajay Kumar , Singh SK, Gautam V (2022) Fungal Endophytes: an Accessible Source of Bioactive Compounds with Potential Anticancer Activity. Biochemistry and Biotechnology . 194(7):3296-3319.	2.926

30.	Gupta VK, Ajay Kumar* (2022) Targeting lysophosphatidic acid receptor with Ki16425 impedes T cell lymphoma progression through apoptosis induction, glycolysis inhibition, and activation of antitumor immune response. Apoptosis . 27(5-6):382-400. (*Corresponding author)	5.561
31.	Singh M, Dwibedy SLL, Biswal S, Ajay Kumar , Srinivasan M, Kumar S (2022) Circular RNA: A novel and potential regulator in pathophysiology of schizophrenia. Metabolic Brain Disease . 37(5):1309-1316	3.655
32.	Kumar Y, Singh NK, Singh VD, Ali I, Tiwari RK, Ajay Kumar , Pandey DS (2022) DNA/Protein binding and anticancer activity of Zn (II) complexes based on azo-Schiff base ligands. Inorganica Chimica Acta . 13:120963.	3.118
33.	Temre MK, Yadav S, Goel Y, Pandey SK, Ajay Kumar , Singh SM (2022) Glutor, a Glucose Transporter Inhibitor, Exerts Antineoplastic Action on Tumor Cells of Thymic Origin: Implication of Modulated Metabolism, Survival, Oxidative Stress, Mitochondrial Membrane Potential, pH Homeostasis, and Chemosensitivity. Frontiers in Oncology . 30;12:925666.	5.738
34.	Rawat SG, Tiwari RK, Jaiswara PK, Gupta VK, Sonker P, Vishvakarma NK, Kumar S, Pathak C, Gautam V, Ajay Kumar* (2022) Phosphodiesterase 5 inhibitor sildenafil potentiates the antitumor activity of cisplatin by ROS-mediated apoptosis: a role of deregulated glucose metabolism. Apoptosis . 27(7-8):606-618.	5.561
35.	Temre MK, Ajay Kumar , Singh SM (2022) An appraisal of the current status of inhibition of glucose transporters as an emerging antineoplastic approach: Promising potential of new pan-GLUT inhibitors. Frontiers in Pharmacology . 1;13:1035510.	5.988
36.	Singh NK, Kumar Y, Paitandi RP, Tiwari RK, Ajay Kumar , Pandey DS (2022) DNA/protein binding and anticancer activity of ruthenium (II) arene complexes based on quinoline dipyrin. Inorganica Chimica Acta . 545 (2023) 121241.	3.118
37.	Sagar P, Srivastava M, Tiwari RK, Ajay Kumar , Srivastava A, Pandey G, Srivastava SK (2022) <i>In-situ</i> One-Pot Novel Synthesis of Molybdenum di-Telluride@Carbon Nano-Dots for Sensitive and Selective Detection of Hydrogen Peroxide Molecules via Turn-off Fluorescence Mechanism. Microchemical Journal 183 (2022) 108134.	5.304
38.	Temre MK, Devi B, Singh VK, Goel Y, Yadav S, Pandey SK, Kumar R, Kumar A, Singh SM (2022) Molecular characterization of glutor-GLUT interaction and prediction of glutor's drug-likeness: implications for its utility as an antineoplastic agent. Journal of Biomolecular Structure and Dynamics . 26:1-12.	5.235
39.	Tiwari RK, Rawat SG, Gupta VK, Jaiswara PK, Sonker P, Kumar S, Gautam V, Mishra MK, Ajay Kumar (2023) Epinephrine facilitates the growth of T cell lymphoma by altering cell proliferation, apoptosis, and glucose metabolism. Chemico Biological Interactions . 5(369)110278.	5.168
40.	Pathak C, Vaidya FU, Waghela BN, Jaiswara PK, Gupta VK, Ajay Kumar , Rajendran BK, Ranjan K (2023) Insights of Endocytosis Signaling in Health and Disease. International Journal of Molecular Sciences . 24(3):2971	6.208
41.	Dwibedy SLL, Singh M, Biswal SR, Muthuswamy S, Ajay Kumar , Kumar S (2023) Circular RNA and RNA binding proteins act together and regulate glioma. HumanGene . 35 (2023) 201156.	
42.	Mehta A, Ratre YK, Soni VK, Shukla D, Sonkar SC, Ajay Kumar, Vishvakarma NK (2023) Orchestral Role of Lipid Metabolic Reprogramming in T- Cell Malignancy.	5.738
43.	Rai N, Gupta P, Verma A, Tiwari RK, Madhukar P, Kamble SC, Ajay Kumar, Kumar R, Singh SK, Gautam V (2023) Ethyl Acetate Extract of <i>Colletotrichum gloeosporioides</i> Promotes Cytotoxicity and Apoptosis in Human Breast Cancer Cells. ACS Omega . 8(4):3768-3784.	4.132

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Total Citations of my Research Articles: 692 (As per Google Scholar)