Name	**Dr. Vikas Sharma,** *Ph.D, FSAB, FHAHS*
Designation	**Assistant Professor (Stage-3)** in Biochemistry, SKUAST-J
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Email	vikas.skuast@gmail.com
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Professional Experience	• 02 years teaching experience at PG level in the Department of Biochemistry & School of Biotechnology, University of Jammu, Jammu. • 12.0 years teaching experience at UG (B.Sc) and PG (M.Sc, Ph.D) level in the Division of Biochemistry, SKUAST of Jammu, Jammu.
Awards/Honours/Scholarships /Fellowships	***SOME SPECIFIC*** • *(FSAB) FELLOW AWARD 2010* • *RASHTRIYA GAURAV AWARD 2013* • *BHARTIYA JYOTI AWARD 2014* • (FHAS), *FELLOW AWARD 2015* • *BHARAT EXCELLENCE AWARD 2016* • *BEST INDIAN EDUCATIONIST AWARD 2016* • *BEST PERSONALITY OF INDIA AWARD 2016,* • *YOUNG SCIENTIST AWARD - 2017.* • *VENUS INTERNATIONAL FACULTY AWARD – 2017* • *FACULTY BRANDING AWARD - 2017* • *YOUNG SCIENTIST AWARD - 2018* • *DISTINGUISH SCIENTIST AWARD-2019* • BEST POSTER AWARD, SK Rajasthan Agricultural University, Bikaner, 2016 • BEST POSTER AWARD, Central Agricultural University-Imphal, 2017 • BEST ORAL PRESENTATION AWARD, Goa, 2018. • BEST POSTER PRESENTATION AWARD Goa, 2018 • BEST Ph.D THESIS AWARD to 1st pass out Ph.D Student (Dr. Arti Heer) • *"CERTIFICATE OF HONOR"* 2014, SKUAST-Jammu, J&K • *"APPRECIATION CERTIFICATE"* 2017, SKUAST-Jammu, J&K • *"CERTIFICATE OF AWARD / APPRECIATION"* 2017, SKUAST-J • *"CERTIFICATE OF APPRECIATION"* 2017, Central Agril. University, Imphal, • *"CERTIFICATE OF APPRECIATION"* 2018, SKUAST-Jammu • *"CERTIFICATE OF APPRECIATION"* 2018 SKUAST-Jammu • *"CERTIFICATE OF APPRECIATION"* 2019 SKUAST-Jammu
Area of specialization / research interests	• Bio prospection of botanicals from J&K *Determination of anticancer activity* *Determination of antifungal and antibacterial efficiency* *Determination of anticancer potential of enzymes* • DNA barcoding: *Scab effecting different apple species in J&K* • Diversity analysis: *Apricot species in J&K*

Total No. of Publications	***52** Full Length Research Publications*
Selected Publications (Best Five)	• Mansoor, S., Ahmed, N., **Sharma, V.,** Jan, S., Nabi, S.U., Mir, J.I., Mir, M.A. and Masoodi, K.Z. (2019). Elucidating genetic variability and population structure in *Venturia inaequalis* associated with apple scab disease using SSR markers. *PLOS ONE* **14 (11)**: 1-16 ***(NAAS-8.77)*** • **Sharma, V.,** Heer, A., Kour, N., Kour, N. Sharma, A and Singh, S.K. (2019). Karonda and Jamun seeds' *in vitro* anticancer efficacy. *Indian Journal of Traditional Knowledge,* **18 (3)**: 573-578 ***(NAAS-7.06)*** **Sharma, V.,** Hussain, S., Bakshi, M., Bhat, N. and Saxena, A.K. (2014). *In vitro* cytotoxic activity of leaves extracts of *Holarrhena antidysenterica* against some human cancer cell lines**.** *Indian Journal of Biochemistry and Biophysics,* 51: 46-51 ***(NAAS - 6.36)*** • **Sharma, V.,** Hussain, S., Gupta, M. and Saxena, A.K. (2014). *In vitro* anticancer activity of extracts of *Mentha spp.* against human cancer cells. *Indian Journal of Biochemistry and Biophysics,* 51: 416-419 ***(NAAS-6.36)*** • **Sharma, V.** (2011). A polyphenolic compound rottlerin demonstrates significant *in vitro* cytotoxicity against human cancer cell lines: isolation and characterization from the fruits of *Mallotus philippinensis*. *Journal of Plant Biochemistry and Biotechnology,* 20 (2): 190-195 ***(NAAS-7.04)***
No. of Books/Manuals/Monographs	**05**
Research Projects as PI/Nodal Officer	**05**
Other Achievements if Any (Please Specify)	***SOME SPECIFIC*** • A compound namely ursolic acid, isolated from the chloroform fraction of *Ca carandas* (karonda) and showed potent *in vitro* cytotoxic effect against lung cance line (A-549) with IC_{50} value of 3.47 µM ± 0.26 µM. Further, ursolic acid conf the apoptotic cell death in A-549 cells by activation of caspase 3, suggesting the r caspase dependent pathway. • Identification of the existence of genetic diversity among strains of *Ven inaequalis* collected from different regions of Jammu and Kashmir based on IT SSR approach. Relative gene expression / fold change of *PAL* pathway genes found in the order as PAL>CHS>C3H>F3H. • Components isolated from the fruit part of *Syzygium cumini* (jamun) are characte by TLC, HPLC, GC-MS, NMR and identified as ***Quercetin, Rutin, Oleanolic aci Ellagic acid.*** These natural compounds showed good observations against colon, 620, HCT-116) and lung (A-549) cancer cell lines. Further IC_{50} value indicated th Quercetin possess significant *in vitro* cytotoxic efficiency against colon cancer ce (HCT-116) • Two phenolic components isolated from the rhizome part of *Curcuma longa* (turmeric / haldi), characterized by TLC, HPLC, GC-MS, NMR and identified as ***curcumin*** and ***demethoxycurcumin.*** These natural phenols showed striking observations against colon (SW-620, HCT-116), lung (A-549) and prostate (PC-3) cancer cell lines and the cytotoxic effect shown by these compounds was much stronger than that shown by standard drugs for cancer. Further IC_{50} values indicated that the active ingredients possess significant *in vitro* cytotoxic efficiency against colon cancer cells and can be modified through chemical means into new drugs to provide a great service to cancer patients especially with colon carcinoma.