



School of Studies in Interdisciplinary Education & Research

Department of Biotechnology

Phone: 9415255586

Email: naveenvishva@gmail.com



Dr. Naveen Kumar Vishvakarma

Qualifications

M.Sc. (Applied Microbiology), Ph.D. (Biotechnology)

Area of Interest/Specialization

Cancer Biology and Immunology

Experience

20th Jan, 2014 to till date

Assistant Professor -Biotechnology

Guru Ghasidas Vishwavidyalaya, Bilaspur, Chhattisgarh

14th June, 2013 to 16th Jan, 2014

Assistant Professor-Microbiology

Department of Botany and Microbiology,
HNB Garhwal University-Uttarakhand

29th April 2012 to 11th June 2013

Post-Doctoral Fellow

Cancer Imaging and Metabolism,
Moffitt Cancer Center and Research Institute, USA

06th July, 2011 to 23rd April 2012

ICMR-Research Associate

School of Biotechnology, Banaras Hindu University-UP

29 Nov, 2010 to 30 Dec, 2010

Post-Doctoral Fellow

Manitoba Institute of Cell Biology,
CancerCareManitoba, Winnipeg-Manitoba, Canada

01st July, 2009 - 30th March 2011

CSIR-Junior Research Fellow

School of Biotechnology, Banaras Hindu University-UP

28th Jan, 2008 to 30th June 2010

UGC –Research Fellow

School of Biotechnology, Banaras Hindu University, UP

04th March 2006 to 18th Jan 2008

Assistant Professor

Department of Microbiology, VBS Purvanchal University, UP

Awards and Honors

Gold Medal for standing First in order of Merit in M.Sc. Applied Microbiology Examination in VBS Purvanchal University in 2005

Best Paper Award-2020, School of Studies in Interdisciplinary Education and Research, Guru Ghasidas Vishwavidyalaya

Best Paper Award-2021, School of Studies in Interdisciplinary Education and Research, Guru Ghasidas Vishwavidyalaya

Research Projects

- 1 Evaluation of curcumin as modulator of tumor metabolism: implication in antineoplastic therapy. 2015-2017. UGC-BSR-Start-Up Research Grant: PI: 6.00 Laks
- 2 Targeting tumor metabolism by curcumin as a novel antineoplastic approach. 2016-2019. UGC-Major Research Project.: PI: 14.50 Lakhs

International Collaboration/Consultancy

- 1 Dr. Navaneet Chaturvedi,
pharmCADD, Nonhyeon-ro, Gangnam-gu, Seoul, Republic of Korea
- 2 Dr. Henu Verma,
Helmholtz Zentrum München Deutsches Forschungszentrum für Gesundheit und Umwelt (GmbH)

Best Peer Reviewed Publication

* denotes corresponding author

Rawat, S.G., Tiwari, R.K., Jaiswara, P.K. Jaiswara, V., Sonkar, P., **Vishvakarma, N.K.**, Kumar, S., Pathak, C., Gautam, V., Kumar, A., Phosphodiesterase 5 inhibitor sildenafil potentiates the antitumor activity of cisplatin by ROS-mediated apoptosis: a role of deregulated glucose metabolism. *Apoptosis* **27**, 606–618 (2022). <https://doi.org/10.1007/s10495-022-01741-0> [**Impact Factor 5.561**]

Abhishek Kumar Verma, Md. Shahadat Hossain, SK. Faisal Ahmed, Nasir Hussain, Mohammad Ashid, Sudhir K. Upadhyay, **Naveen Kumar Vishvakarma**, Ali Asger Bhojiya & Sandeep Kumar Srivastava (2022) "In silico identification of ethoxy phthalimide pyrazole derivatives as IL-17A and IL-18 targeted gouty arthritis agents", *Journal of Biomolecular Structure and Dynamics*, DOI: [10.1080/07391102.2022.2071338](https://doi.org/10.1080/07391102.2022.2071338) [**Impact Factor 4.15**]

- Verma AK, Majid A, Hossain MS, Ahmed SF, Ashid M, Bhojiya AA, Upadhyay SK, **Vishvakarma NK** and Alam M. 2022. Identification of 1, 2, 4-Triazine and Its Derivatives Against Lanosterol 14-Demethylase (CYP51) Property of *Candida albicans*: Influence on the Development of New Antifungal Therapeutic Strategies. *Front. Med. Technol.* 4:845322. doi: 10.3389/fmedt.2022.845322
- Ratre, Y.K., Sarkar, T., Tiwari, A., Jaiswal, A., Mehta, A., Soni, V.K., Ansari, S.M.S., Shukla, D. and **Vishvakarma, N.K.**, 2022. Single-cell analysis as a guiding tool to understand drug resistance in cancer: Current opportunities and scope. *Polymorphism*, 8:(37-55).
- Soni, V.K., Mehta, A., Sharma, K., Ratre, Y.K., Dwivedi, M., Chaturvedi, N., Shukla, D., Dixit, A.K., Singh, A.K. and **Vishvakarma, N.K.**, 2022. Immunity boosters in COVID-19: Reality or myth?. *Medicine India*, 1.
- Mehta A, Kumar Ratre Y, Sharma K, Soni VK, Tiwari AK, Singh RP, Dwivedi MK, Chandra V, Prajapati SK, Shukla D, **Vishvakarma NK***. 2021. Interplay of Nutrition and Psychoneuroendocrine-immune Modulation: Relevance for COVID-19 in BRICS Nations. *Front Microbiol.* 17;(12):769884. **[Impact Factor 6.064]**
- Soni VK, Mehta A, Ratre YK, Chandra V, Shukla D, Kumar A, **Vishvakarma NK***. 2021. Counteracting Action of Curcumin on High Glucose-Induced Chemoresistance in Hepatic Carcinoma Cells. *Front Oncol.* 6;(11):738961. doi: 10.3389/fonc.2021.738961. **[Impact Factor 5.738]**
- Baghel VS, Shinde S, Sinha V, Pandey SK, Dwivedi S, Singh N, Tiwari AK, Saxena S, **Vishvakarma NK***, 2021 Shukla D, Bhatt P, Post-COVID-19 complication and its effect on acute kidney injury. *J Renal Endocrinol* 7:e18
- Shinde S, Baghel V, Dixit A, Dixit V, Tiwari A, Pandey S, Dwivedi S, **Vishvakarma N***, Shukla, D.. 2021. CYP1A1 rs4646903 T>C and rs1048943 A>G polymorphisms and the risk of colorectal cancer: An updated meta-analysis. *Polymorphism.* 8, (1-12).
- Verma AK, Ahmed SF, Hossain MS, Bhojiya AA, Mathur A, Upadhyay SK, Srivastava AK, **Vishvakarma NK**, Barik M, Rahaman MM, Bahadur NM. 2021. Molecular docking and simulation studies of flavonoid compounds against PBP-2a of methicillin-resistant *Staphylococcus aureus*. *J Biomol Struct Dyn.* 1 9:1-17. **[Impact Factor 4.15]**
- Sahu T, Mehta A, Ratre YK, Jaiswal A, **Vishvakarma NK**, Bhaskar LVKS, Verma HK. 2021 Current understanding of the impact of COVID-19 on gastrointestinal disease: Challenges and openings. *World J Gastroenterol.* ;27(6):449-469). **[Impact Factor 5.374]**
- Sinha V, Saxena S, Pandey SK, Dwivedi S, Thakur S, Asea A, Dixit AK, Dixit V, **Vishvakarma NK***, Shukla D. 2021. Current Challenges for the Effective Management of the

COVID-19 Pandemic. *Adv Exp Med Biol.* 1353:(131-149). doi: 10.1007/978-3-030-85113-2_8. PMID: 35137372. **[Impact Factor 3.650]**

Sinha V, Shinde S, Saxena S, Thakur S, Walia T, Dixit V, Tiwari AK, **Vishvakarma NK**, Dwivedi M, Shukla D. 2020. A Comprehensive Review of Diagnostic and Therapeutic Strategies for the Management of Pancreatic Cancer. *Crit Rev Oncog.* 25(4):381-404).

Shinde S, Saxena S, Dixit V, Tiwari AK, **Vishvakarma NK***, Shukla D. Epigenetic Modifiers and Their Potential Application in Colorectal Cancer Diagnosis and Therapy. *Crit Rev Oncog.* 2020;25(2):95-109.

Mehta A, Soni VK, Sharma K, Ratre YK, Shukla D, Singh AK, **Vishvakarma NK***. Finding Horcrux of psychiatric symptoms in COVID-19: Deficiencies of amino acids and vitamin D. *Asian J Psychiatr.* 2021 Jan; 55:102523. **[Impact Factor 13.89]**

Soni VK, Sharma K, Mehta A, Ratre YK, Kumar S, Shukla D, **Vishvakarma NK***. 2020. A physiological link for psychiatric symptoms in COVID-19: Role of amino acid deficiency. *Asian J Psychiatr.* 53:(102426). **[Impact Factor 13.89]**

Ratre YK, **Vishvakarma NK**, Bhaskar LVKS, Verma HK. 2020 Dynamic Propagation and Impact of Pandemic Influenza A (2009 H1N1) in Children: A Detailed Review. *Curr Microbiol.* 77(12):3809-3820). **[Impact Factor 13.89]**

Soni VK, Mehta A, Ratre YK, Tiwari AK, Amit A, Singh RP, Sonkar SC, Chaturvedi N, Shukla D, **Vishvakarma NK***. 2020. Curcumin, a traditional spice component, can hold the promise against COVID-19? *Eur J Pharmacol.* 5;(886:173551). **[Impact Factor 4.432]**

Soni VK, Mehta A, Shukla D, Kumar S, **Vishvakarma NK***. 2020. Fight COVID-19 depression with immunity booster: Curcumin for psychoneuroimmunomodulation. *Asian J Psychiatr.* 53:(102378). Doi: doi: 10.1016/j.ajp.2020.102378 **[Impact Factor 13.89]**

Soni VK, Shukla D, Kumar A, **Vishvakarma NK***. 2020. Curcumin circumvent lactate-induced chemoresistance in hepatic cancer cells through modulation of hydroxycarboxylic acid receptor-1. *Int J Biochem Cell Biol.* (123:105752). PMID: 32325281. doi: 10.1016/j.biocel.2020. **[Impact Factor 5.085]**

El-Kenawi A, Gatenbee C, Robertson-Tessi M, Bravo R, Dhillon J, Balagurunathan Y, Berglund A, **Vishvakarma N**, Ibrahim-Hashim A, Choi J, Luddy K, Gatenby R, Pilon-Thomas S, Anderson A, Ruffell B, Gillies R. 2019. Acidity promotes tumour progression by altering macrophage phenotype in prostate cancer. *Br J Cancer.* 121(7):556-566). **[Impact Factor 9.075]**

Vishvakarma NK. 2014. Novel antitumor mechanisms of curcumin: implication of altered tumor metabolism, reconstituted tumor microenvironment and augmented myelopoiesis. *Phytochem Rev* (13):717-724). **[Impact Factor 7.741]**

- Vishvakarma NK, Kumar A, Singh V, Singh SM.** 2013. Hyperglycemia of tumor microenvironment modulates stage-dependent tumor progression and multidrug resistance: implication of cell survival regulatory molecules and altered glucose transport. *Mol. Carcinog.* 52:12;(932-945). [**Impact Factor 4.784**]
- Vishvakarma NK, Kumar A, Kumar A, Kant S, Bharti AC, Singh SM.** 2012. Myelopotentiating effect of curcumin in tumor-bearing host: role of bone marrow resident macrophages. *Toxicol. Appl. Pharmacol.* 263:(111- 121). [**Impact Factor 4.219**]
- Rai RK, **Vishvakarma NK, Mohapatra TM, Singh SM.** 2012. Augmented macrophage differentiation and polarization of tumor-associated macrophages towards M1 subtype in *Listeria*-administered tumor-bearing host. 35:7:(544-554); *J. Immunother.* [**Impact Factor 4.912**]
- Kumar A, **Vishvakarma NK, Tyagi A, Bharti AC and Singh SM.** Anti-neoplastic action of aspirin against a T cell lymphoma involves alteration in tumor microenvironment and regulation of tumor cell survival. Year of Publication: 2012; Volume: 32; Issue No: 1; Page No from: 91; Page No to: 104; *Bioscience Reports*; ISSN: 1573-4935. [**Impact Factor 3.842**]
- Kumar A, **Vishvakarma NK, Bharti AC and Singh SM.** Gender-specific antitumor action of aspirin in a murine model of a T-cell lymphoma bearing host. Year of Publication: 2012; Volume: 48; Issue No: NA; Page No from: 137; Page No to: 144; *Blood Cells, Molecules and Diseases* ISSN:1079-9796. [**Impact Factor 3.039**]
- Vishvakarma NK and Singh SM.** 2011. Augmentation of myelopoiesis in a murine host bearing a T cell lymphoma following in vivo administration of proton pump inhibitor pantoprazole. *Biochimie.* 93:10:(1786-1796) [**Impact Factor 4.372**]
- Vishvakarma NK and Singh SM.** 2011. Mechanisms of tumor growth retardation by modulation of pH regulation in tumor microenvironment of a murine T cell lymphoma. *Biomed Pharmacother.* 65:1:(27-39). [**Impact Factor 6.529**]
- Vishvakarma NK, Kumar A and Singh SM.** 2011 Role of curcumin-dependent modulation of tumor microenvironment of a murine T cell lymphoma in altered regulation of tumor cell survival. *Toxicol Appl Pharmacol.* 252:3:(298-306); [**Impact Factor 4.46**]
- Vishvakarma NK and Singh SM.** 2010. Immunopotentiating effect of proton pump inhibitor pantoprazole in a lymphoma-bearing murine host: implication in antitumor activation of tumor-associated macrophages. *Immunol Lett.* 134;1;(83-92) [**Impact Factor 4.23**]
- Singh MP, Rastogi PC, Srivastava AK and **Vishvakarma NK.** 2008. Decolorization of Azo-Dye by White Rot Fungi *Pleuroteus sp.* *Pollution Research.* 27:3:(365-379) [**Impact Factor 1.55**]

- Singh MP, Pandey VK, Pandey AK, Srivastava AK, **Vishvakarma NK** AND Singh VK. 2008. Production of xylanase by white rot fungi on wheat straw. *Asian J. Microbiol Biotechnol Env Sci.* Volume: 10:859-862).
- Tiwari, A.K. **Vishvakarma NK**, Dixit V, Shukla D. 2017. Seasonal biochemical characterization of muscles, liver and ovary of *M. seenghala* from Vindhya region. *Int. J. Zool. Stud.* 2:4:(14-20).
- Kumari P, Dixit V, Tiwari AK, Saxena S, **Vishvakarma NK**. Naik, PK and Shukla D. 2018. Computer- assisted drug designing of triazole derivatives of Noscapine as tubuling binding drug. *Asian J Pharm Clin Res.* 11:(69-75).
- Mallick SK, Gupta V, Singh MP, **Vishvakarma NK**, Singh N and Singh SM. 2008. Effect of Neem (*Azadirachta indica*) oil on the progressive growth of a spontaneous T cell lymphoma. *Orient Pharm Exp Med.* 7:5:(459-465). **[Impact Factor 0.211]**
- Singh SK, Naik PK, **Vishwakarma NK**, Dixit V, Tiwari AK, Shukla D. 2015. Identification and ligand-based virtual screening of 1, 4-dihydropyridine analogues as novel calcium channel blockers. *PROC. OF THE IRSMT. Int. J. Res. Stud Biosci.* 1:(107-114).

Recent Books/Book Chapters/Monographs etc.

Books Edited

- Colon Cancer Diagnosis and Therapy. Vol I 2021.* Editors Ganji Purnachandra Nagaraju, Dhananjay Shukla, **Naveen Kumar Vishvakarma**. Springer Nature. ISBN: 978-3-030-63369-1
- Colon Cancer Diagnosis and Therapy. Vol II 2021.* Editors **Naveen Kumar Vishvakarma**. Ganji Purnachandra Nagaraju, Dhananjay Shukla, Springer Nature. ISBN: 978-3-030-64667-7
- Colon Cancer Diagnosis and Therapy. Vol III 2022.* Editors Dhananjay Shukla, **Naveen Kumar Vishvakarma**. Ganji Purnachandra Nagaraju, Springer Nature. ISBN: 978-3-030-72702-4

Recent Chapters in Books

- Yashwant Kumar Ratre, Arundhati Mehta, Rajesh Sharma, Vivek Kumar Soni, Dhananjay Shukla, Vibhay Nath Tripathi, **Naveen Kumar Vishvakarma***, Chapter 14 - Glutamine metabolism in liver cancer: role in progression and potential therapeutic targeting, Editor(s): Ganji Purnachandra Nagaraju, Sujatha Peela,

Theranostics and Precision Medicine for the Management of Hepatocellular Carcinoma, Academic Press, 2022, Pages 199-217,

Srivastava, R., Sonam, S., **Vishvakarma, N.K.**, Sharma, R., Tiwari, S.P. (2022). Bacterial Cancer Therapy: Promising Role in the Treatment of Colon Cancer. In: Shukla, D., Vishvakarma, N.K., Nagaraju, G.P. (eds) *Colon Cancer Diagnosis and Therapy* Vol. 3. Springer, Cham. https://doi.org/10.1007/978-3-030-72702-4_17

Soni, V.K. Mehta A, Ratre YK, Kumar C, Singh RP, Srivastava AK, Chaturvedi N, Shukla D, Pandey SK, **Vishvakarma NK***. (2022). Antineoplastic Effects of Curcumin Against Colorectal Cancer: Application and Mechanisms. In: Shukla, D., Vishvakarma, N.K., Nagaraju, G.P. (eds) *Colon Cancer Diagnosis and Therapy* Vol. 3. Springer, Cham. https://doi.org/10.1007/978-3-030-72702-4_18

Mehta, A. Soni Vk, Ratre YK, Amit A, Shukla S, Kumar A, **Vishvakarma NK***. (2022). Role of Tumour-Associated Macrophages in Colon Cancer Progression and Its Therapeutic Targeting. In: Shukla, D., Vishvakarma, N.K., Nagaraju, G.P. (eds) *Colon Cancer Diagnosis and Therapy* Vol. 3. Springer, Cham. https://doi.org/10.1007/978-3-030-72702-4_10

Sinha V, Shinde S, Dixit V, Tiwari AK, Dixit AK, **Vishvakarma NK**, Pandey SK, Ekka A, Singh M, Shukla D. (2022). Prevention and Management of Colon Cancer by Nutritional Intervention. In: Shukla, D., Vishvakarma, N.K., Nagaraju, G.P. (eds) *Colon Cancer Diagnosis and Therapy* Vol. 3. Springer, Cham. https://doi.org/10.1007/978-3-030-72702-4_13

Rawat, S.G., Tiwari, R.K., Sonker, P., Maurya, R.P., **Vishvakarma, N.K.**, Kumar, A. (2021). EGCG as Anti-Obesity and Anticancer Agent. In: Kumar, S., Gupta, S. (eds) *Obesity and Cancer*. Springer, Singapore. https://doi.org/10.1007/978-981-16-1846-8_11

Kumar S, **Vishvakarma NK**, Kumar A. Chapter 5 - Clinical applications of noncoding RNAs in lung cancer patients, Editor(s): Subash Chandra Gupta, Kishore B. Challagundla,. *Clinical Applications of Noncoding RNAs in Cancer*, Academic Press, 2022, Pages 141-175,

Gupta, V. Bharmal T, Dixit V, **Vishvakarma NK**, Tiwari AK, Shukla D, Shukla S. (2021). Targeting Angiogenesis for Colorectal Cancer Therapy. In: Nagaraju, G.P., Shukla, D., Vishvakarma, N.K. (eds) *Colon Cancer Diagnosis and Therapy*. Springer, Cham. https://doi.org/10.1007/978-3-030-63369-1_11

Mehta A, Soni VK, Ratre YK, Singh RP, Shukla D, **Vishvakarma NK***. (2021). Short-Chain Fatty Acids as Therapeutic Agents in Colon Malignancies. In: Nagaraju, G.P., Shukla, D., Vishvakarma, N.K. (eds) *Colon Cancer Diagnosis and Therapy*. Springer, Cham. https://doi.org/10.1007/978-3-030-63369-1_10

Shinde S, Sinha V, Dxit V, Dwivedi MK, **Vishvakarma NK**, Tiwari AK, PAndey SK, Shukla D. (2021). Dietary Habits and Global Incidence of Colon Cancer. In: Vishvakarma, N.K., Nagaraju, G.P., Shukla, D. (eds) *Colon Cancer Diagnosis and Therapy*. Springer, Cham. https://doi.org/10.1007/978-3-030-64668-4_2

Ratre YK, Verma HK, Mehta A, Soni VK, Sonkar SC, Shukla D, Ekka A, Prajapati SK, Mahilkar S, **Vishvakarma NK***. (2021). Therapeutic Targeting of Glutamine Metabolism in Colorectal Cancer. In: Vishvakarma, N.K., Nagaraju, G.P., Shukla, D. (eds) *Colon Cancer Diagnosis and Therapy*. Springer, Cham. https://doi.org/10.1007/978-3-030-64668-4_15

Shinde S, **Vishvakarma NK**, Tiwari AK, Dixit V, Saxena S, Shukla D. Chapter 10 - Therapeutic options for the management of cervical cancer, Editor(s): Rama Rao Malla, Ganji Purnachandra Nagaraju, *A Theranostic and Precision Medicine Approach for Female-Specific Cancers*, Academic Press, 2021, Pages 193-212,

Mehta A, Soni VK, Shukla D, **Vishvakarma NK***. Cyanobacteria: a potential source of Anticancer Drugs, In: *Advances in Cyanobacterial Biology*. Editor: PK Singh, Editor(s): Prashant Kumar Singh, Ajay Kumar, Vipin Kumar Singh, Alok Kumar Shrivastava, Academic Press, 2020, Pages 369-384,

Vishvakarma NK. Microbes and cancer: a mutual intimacy. In: *Plants and microbes in an ever-changing environment*. Editor: Satya Shila Singh. Page No: 365-384; Date of publication: 2017; **NOVA Science Publishers, New York, USA**. 978-1-53610-3.

Vishvakarma NK. Glorious past and promising future of Curcumin based antitumor therapeutic strategies. In; *Curcumin: Synthesis, Emerging Role In Pain Management And Health Implications*, Editor/ Daniel LoïcPouliquen.; Page No: 395-408; Date of publication: 2014; **NOVA Science Publishers, New York, USA** International level publishers.978-1-63321-3

Vishvakarma NK, Singh SM. Macrophages: The Versatile Frontline Defenders of Antimicrobial Immunity. Editor: S.P. Tiwari, Rajesh Sharma and Rajeeva Gaur. "Recent advances in microbiology"; Vol- II, Page No: 38-53; Date of publication: 05/2013; **NOVA Science Publishers, New York, USA**. International level publishers.978-1-62808-6.

Vishvakarma NK, Srivastava P, Singh SM. Thymic peptides: hormones with biological response modifying potential and multi-utility therapeutic applications in life threatening pathologies. Editor: M.P. Singh, Anju Agrawal, Bechan Sharma. "Recent trends in biotechnology"; Vol-I; Date of publication: 05/2011. Page No: 169-190; **NOVA Science Publishers, New York, USA** International level publishers. 978-1-60876-1.

Research Supervision

Ph.D. Awarded

- 1 Dr. Vivek Kumar Soni, 2015-2021
Currently working at Trivitron Healthcare, Vishakhapatnam, AP, India
Thesis Title: Investigation on modulation of tumor metabolism by curcumin

Ph.D. Ongoing

- 1 Ms. Arundhati Mehta, 2019-onwards;
Working on Mechanisms of anticancer activity of Eugenol
- 2 Mr. Yashwant Kumar Ratre, 2019-onwards
Working on Glutamine metabolism in Cancer

Administrative Responsibilities

- 1 Member-Board of Studies (2022-onwards)
Department of Biotechnology, Guru Ghasidas Vishwavidyalaya
- 2 Member-Incubator Cell (2016-2021)
Guru Ghasidas Vishwavidyalaya
- 3 Member-Departmental Research Committee (2014-2021)
Department of Biotechnology, Guru Ghasidas Vishwavidyalaya

Additional Information

Scientific Events Organized

1. Convener –National Workshop on Molecular Diagnostics – Advances and Applications- 2022 [MDAA-2022] 03-09 Nov, 2022 at Department of Biotechnology, Guru Ghasidas Vishwavidyalaya Supported by: DST-SERB; DRDO; & Guru Ghasidas Vishwavidyalaya
2. Organizing Secretary –National Workshop on Animal Cell Culture: Techniques and Applications-2022 [ACCTA-2022] 16-22 Feb, 2022 at Department of Biotechnology, Guru Ghasidas Vishwavidyalaya Supported by: DST-SERB; & Guru Ghasidas Vishwavidyalaya
3. Organizing Secretary –Workshop on Animal Cell Culture: Techniques and Applications-2018 [ACCTA-2018] 18-24 Jan, 2018 **at** Department of Biotechnology, Guru Ghasidas Vishwavidyalaya Supported by: DST-SERB; ICMR; CCOST, PMKVY

4. Organizing Secretary –Workshop on Animal Cell Culture: Techniques and Applications-2017 [ACCTA-2018] 19-25Jan, 2017 at Department of Biotechnology, Guru Ghasidas Vishwavidyalaya. Supported by: PMKVY
5. Treasurer-National Seminar on Innovations and Entrepreneurship in Biotechnology-2016 [NSIEB-2016] 26-27 Dec, 2016 at Department of Biotechnology, Guru Ghasidas Vishwavidyalaya supported by GGV

Invited Talk Delivered: 12

Papers Presented at Seminar/Conference : 10