

**Faculty Name Dr. Pankaj Gupta**

Designation : Assistant Professor

Subject : Chemistry

Area of Specialization : Organic Chemistry

College : Govt. Gandhi Memorial Science College Jammu

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### Summary

- Ph.D. degree in...Organic Chemistry
- Currently working at ....Govt. Gandhi Memorial Science College Jammu
- Date of Appointment in Higher Education Department, J&K ...30<sup>th</sup> April 2010

### Awards and Achievements

- Recipient of **UGC Research award 2016-18**.
- Received **Best Oral Presentation Award** in 13th session of Jammu and Kashmir Science Congress (**JKSC-2018**) organized from **2<sup>nd</sup> to 4<sup>th</sup> April, 2018** by University of Kashmir in Collaboration with the J&K State Science, Technology and Innovation Council.
- Recipient of J&K **Innovative Science Teacher Award (College level)** instituted by the J&k State Science, Technology and Innovation Council during **2014**.
- Received Best poster award (Chemical Sciences) in poster presentation in UGC-Sponsored National Symposium on Interdisciplinary Sciences held at Govt. Gandhi Memorial College Jammu, during 02-03 March **2012**.
- Recipient of **ICS-UNIDO fellowship**, conducted by International Centre for Science and High technology (ICS)-United Nations Industrial Development Organization (UNIDO)- in **2009**.
- Qualified for **Senior Research Fellowship-2008** awarded by Council and Scientific and Industrial Research (CSIR), New Delhi, India.
- Received Best paper award (**2007-2008**) by Director Indian Institute of Integrative Medicine, (**CSIR**) for “A facile approach towards enantiomerically pure masked □ -amino alcohols **Pankaj Gupta**, B.A. Shah, R. Parshad, G.N. Qazi and S.C. Taneja, *Green Chemistry* **2007**, 9, 1120-1125 “
- Qualified the National Eligibility Test for Lectureship in Chemical Sciences in Dec **2003**, conducted jointly by Council and Scientific and Industrial Research and University Grants Commission, New Delhi, India.

### Workshops, Seminars, Symposia and Conferences Organized

- Performed duty as Organizing secretary in celebration of National Wild life week celebration and UT foundation day in October 2023 in GDC Kathua in which various activities such as field visit, Painting, Photography, videography and essay writing competitions were organized.
- Performed duty as Organizing secretary in celebration of National Nutritional Week in GDC Kathua in which activities such as intercollegiate symposium intercollegiate poster making competition and guest lecture were organized on 6th Sep 2023.
- Worked as organizing secretary in Organizing National workshops on Research Methodology and IPR on 23 Jan 2023 and 25 Jan 2023 respectively.

- Received letter of Appreciation for organizing 15 days certificate course for final year/passout students on “Mutual Fund Advisor” in the session 2022-23, organized by BSE Bombay in collaboration with GDC Kathua.
- Worked as **Organizing Secretary** of National online Quiz competition on “**Organic and Inorganic Chemistry**” organized by Department of Chemistry, Govt. Degree College, Kathua on 27<sup>th</sup> August 2021.
- Worked as member of organizing committee for an **inter college debate competition** on the theme “ Is Cyber a Boon for the Young Generation?” on 16<sup>th</sup> April 2021 organized by Government Degree College Kathua in Collaboration with Prof. D.K. Rampal Memorial Trust Jammu.
- “**Technical workshop cum awareness camp**” organized by Institutional innovation and incubation centre (I3C) GDC Kathua on 22<sup>nd</sup> January 2021.
- Worked as member of organizing committee in one day “**Technical workshop cum awareness camp**” organized by Institutional innovation and incubation centre (I3C) GDC Kathua on 22<sup>nd</sup> January 2021.
- Worked as **Organizing Secretary** of two workshops on “*Virtual labs*”, organized by Virtual Lab Nodal Centre (VLNC), Govt. Degree College, Kathua on 25<sup>th</sup> August 2020 and 22<sup>nd</sup> December 2020 .
- Worked as **Co-organizing secretary** in National online Quiz competition on “*Spectroscopy*” organized by Department of Chemistry, Govt. Degree College Kathua on 19-06-2020.
- Worked as **Coordinator** in National Conference on “*Skill enhancement courses and employment generation*” organized by Government Degree College Kathua on 19<sup>th</sup> December 2017.
- Worked in organizing committee of Intercollegiate symposium on “**Relevance of Gandhian Philosophy-Seven Social Sins in Modern Era**” organized by Government Degree College Kathua on 1st October 2018.
- Worked in organizing committee of Seminar on “ Sustainable Chemistry only alternate for better future” organized by Government Degree College Kathua on 2<sup>nd</sup> November 2018.

## Outreach Programs

### Community Work:

- Appointed as Visiting Officer in the Fourth phase of Back to Village (B2V4) Programme vide order number 105-DEV of 2022 dated 28-10-2022 issued by District Development Commissioner, Kathua. Performed duties as Visiting Officer in the Fourth phase of Back to Village (B2V4) Programme for the year 2022-23. Made the people aware of various schemes, inspected the government establishments/works and took the meetings of panchayat members, Govt Officials, senior citizens etc. Moreover, various activities as desired in B2V4 programme were conducted in the panchayat very efficiently.
- Worked as Nodal Coordinator- VLNC GDC Kathua and organized one outreach workshop (in GLDM Hiranagar) for students & faculty on.
- Worked as Returning Officer in DDC elections for Lohai Malhar constituency, Distt Kathua in the year 2020.

### Financial/Project grants received:

- Worked as Nodal officer for organizing activities in collaboration with J&K Science Technology and Innovation Council for the session 2023-24. The proposals have been accepted by the Department of Science and Technology J&K Science Technology and innovation Council, J&K UT and an amount of Rs 1,20, 000 (one lakh and twenty thousand only), has been sanctioned in favour of GDC Kathua vide letter number JKST& IC/J/06/2023/1371-73 dated 16-08-2023 for organizing S&T activities.
- Completed a project sanctioned by UGC under UGC research award scheme (2016-18) worth Rs 3 lacs.

## Lectures as invited talks/resource person

1. Delivered a lecture as **Resource Person** in one day work shop on “**Virtual Labs**” organized by Government Degree College, Ganderbal on 30<sup>th</sup> January 2021.
2. Delivered a lecture as **Resource Person** on the topic “Chirality vs Biological Activity” in two days work shop on “**Blessings of Science**” organized by Government College for Women, Kathua in collaboration with JK State Science, Technology & Innovation Council w. e. from 15-16 March 2018.
3. Delivered a lecture as **Invited talk** on the topic “Future of Basic Sciences” in one day seminar on **Basic Modern Science Education**” organized by Government Degree College Billawar on 28<sup>th</sup> Feb. 2020.

## Workshops, Seminars, Symposia and Conferences attended

- Presented a paper in one day International Seminar held at G.D.C Basohli JK on 20th April 2023.
- “Biocatalytic Approach: An Environment Friendly Approach Towards Active Pharmaceutical Ingredients” (Oral presentation) in National conference on Recent trends in Agriculture, Biosciences, Computer Applications, Environment & Humanities on 24<sup>th</sup> March 2022 organized by Government Degree College, Billawar.
- “Arthrobacter sp. Lipase: A Versatile Biocatalyst for the Synthesis of Enantiopure Compounds” (oral presentation) in International Conference on “Recent Advances in Chemical Sciences” Organised by The Department of Chemistry, Government College for Women, Parade Ground, Jammu, India in collaboration with Cape Comorin Trust, India & Cape Comorin Publisher, India from 10 January to 11 January 2022.
- Participated in one Day International Webinar on “**Health Wellness and Sports Sciences**” on 30th June, 2021 organized by Department of Physical Education and Sports in collaboration with Foundation of Global Community Health, United States of America.
- Participated in one Day National Level Webinar on “**Opportunities in Chemical Sciences post Covid-19 Scenario**” on 26th June, 2020 organized by Department of Chemistry, Smt. G. G. Khadse College, Muktainagar, Dist- Jhalgaon (M.H.).
- Attended Online National Mini Workshop Cum Webinar on E-Content Development on 16th August-2020 Organized by GGM Science College, a Constituent College of Cluster university of Jammu.
- Participated in one day International webinar on “**Nano-Technology for Energy and the Environment**” organized by Department of Chemistry & Internal Quality Assurance Cell (IQAC) dated on Thursday, 09th July 2020.
- “Chemoenzymatic approaches towards enantioselective synthesis of Bioactive Molecules” (oral Presentation)” in **International conference on Chemical Biology**” (ICAB-2019) held at Shri Mata Vaishno Devi University Katra, w. e f.4<sup>th</sup> to 6<sup>th</sup> November 2019.
- Participated in UGC sponsored one day seminar on “Future of Basic Sciences: where we are heading to?” organized by HRDC, Guru Nanak Dev University, Amritsar from 15<sup>th</sup> to 16<sup>th</sup> October 2018.
- “*Biocatalytic Approaches Towards enantioselective Synthesis of 1,2-Amino Alcohols and Other Useful Precursors of Bioactive Molecules*” in 13<sup>th</sup> Session of Jammu and Kashmir Science Congress (**JKSC-2018**) organized from 2<sup>nd</sup> to 4<sup>th</sup> April, 2018 by University of Kashmir in Collaboration with the J&K State Science, Technology and Innovation Council.
- *Biocatalysis: an Emergent Strategy in the Pharmaceutical Industries* in National Conference Organized by Govt Degree College Kathua on 19<sup>th</sup> December **2017**.
- *Recent advances in applications of nanoparticles in nanomedicines* in National Conference Organized by Govt Degree College Kathua on 10<sup>th</sup> -11<sup>th</sup> November **2017**.

- “*Value Education at Higher Level*” in National Seminar on “New Education Policy: Issues & Challenges” organized by Govt. Degree College Kathua on 30<sup>th</sup> January **2016**.
- “*An expedient chemo-enzymatic approach towards synthesis of enantiopure Ethambutol*” in 2<sup>nd</sup> National Symposium on Interdisciplinary Sciences organized by G.G.M. Science College on 27-28 February **2015**.
- Participated in National workshop on “*Intellectual Property Rights*” Organized by Govt. College for women Gandhi Nagar Jammu on 18<sup>th</sup> November **2015**.
- *Recent Advances in Microbial Degradation of Thermoset Plastics* **2014**, “National Seminar on Environmental Education: The New Frontier” held at Govt. Degree College Kathua
- *An efficient preparation of biologically important 1,2-amino alcohols* **2012**, National Symposium on Interdisciplinary Sciences held at Govt. Gandhi Memorial College Jammu.
- *Climate Change: an overview of present knowledge and future prospects* **2012**, Biodiversity: issues and its conservation GCW Kathua.
- *A facile chemo enzymatic approach towards enantiomerically pure 1,2-amino alcohols*: National Symposium on Green Chemistry, December- **2010**, G. D. C. Udampur.
- *A facile approach towards enantiomerically pure masked  $\beta$ -amino alcohols* **2008**, Asian Symposium on Medicinal Plants, species and other natural products IICT, Hyderabad.
- *Odoriferous cyclic ethers via co-halogenation reaction and their olfactory studies*, International symposium on Chemistry biology **2007**, IICB, Kolkata.
- *Enzyme catalyzed separation of geometrical isomers of Geraniol (E/Z)*. International conference of Green/sustainable Chemistry **2006**.
- Microbial diversity, **2005**, New Delhi attended.
- *Application of 2D NMR in Structural Elucidation of some biologically important molecules* National Symposium on Advances in Magnetic Resonance and its Applications: 12<sup>th</sup> National Magnetic Resonance Society Meeting, **2005**, RRL-Jammu.
- *Synthesis of new analogues of rose oxide and its structure activity relationship*; 1st J&K State Science Congress, **2004**.

#### Orientation/ Refresher courses/FDP short term attended

1. Participated & successfully completed two weeks online Faculty Development Program in Chemistry and Allied Sciences, FDPCAS-2023 organized by Department of Chemistry and Chemical Sciences, Central University of Jammu w. e. from 26<sup>th</sup> October 2023 to 8<sup>th</sup> November 2023.
2. Successfully Completed UGC Approved Short term Professional Development Programme with A+ grade on ‘Implementation of NEP-2020 for University and College Teachers’ Organized by Indira Gandhi National Open University (IGNOU) from 21-29 September 2022.
3. Successfully completed online two-week refresher course (ID) with A+ grade on “Managing online classes and co-creating MOOCs 21.0” Organized by TLC Ramanujan college Univ. of Delhi w. e. from 7<sup>th</sup>-21<sup>st</sup> December 2022.
4. Successfully completed UGC approved SWAYAM ARPIT online Refresher course on Teacher and Teaching in Higher Education conducted by Savitribai Phule Pune University Pune from 1<sup>st</sup> Dec 2020 to 31<sup>st</sup> March 2021.
5. Successfully completed One Week Faculty Development Programme on One Week FDP (Online) on Online Tools for Effective Teaching Organized by Department of Information Technology National Institute of

- Technology Srinagar, Hazratbal - 190006 Sponsored by AICTE Faculty Development Cell with effect from 26-03-2021 to 30-03-2021.
6. Successfully completed One Week Faculty Development Programme on “ICT based tools and its applications in teaching learning process” organized by BSVS Educational Learning Centre, Nagpur held during 27th May - 02nd June 2020.
  7. Successfully Completed one week online short term course on “Chemistry of Advanced Functional Materials (CAFAM-2020) organized by Department of Chemistry, National Institute of Technology, Srinagar during 21-25 September 2020.
  8. Successfully completed UGC approved SWAYAM ARPIT online Refresher course in Chemistry conducted by MHRD at NRC- SRI GURU TEGH BAHADUR KHALSA COLLEGE DEHLI with “A” Grade in the proctored examination held on 16-02-2020.
  9. Successfully completed five day faculty development program on “Emerging Technologies in Digital Teaching system” organized by NIELIT Jammu w.e.f 27-01-2020 to 31-01-2020.
  10. Successfully completed UGC approved SWAYAM ARPIT online Refresher course in Chemistry conducted by MHRD at NRC- SRI GURU TEGH BAHADUR KHALSA COLLEGE DEHLI with “A” Grade in the proctored examination held on 30-03-2019.
  11. Participated in UGC sponsored three week Refresher course in Behavioral Sciences (ID) conducted by HRDC- University of Jammu, Jammu from 7<sup>th</sup> December 2015- 28<sup>th</sup> December 2015.
  12. Participated in UGC sponsored three week Refresher Course in Environmental Sciences (ID) conducted by Academic Staff College University of Jammu, Jammu from 8<sup>th</sup> February 2014 to 28<sup>th</sup> February 2014
  13. Participated in UGC sponsored four week General Orientation Course conducted by Academic Staff College HP University, Shimla from 4<sup>th</sup> April 2011 to 30<sup>th</sup> April 2011.

## Research Publications

### 2022

1. “Antiobesity Potential of Bioactive Constituents from Dichloromethane Extract of *Psoralea corylifolia* L. Seeds: Neha Mahajan, 1 Bhupendra Koul, Jasleen Kaur, Mahendra Bishnoi, **Pankaj Gupta**, Amit Kumar, Bhahwal Ali Shah, Iqra Mubeen, Ashutosh Kumar Rai, Ram Prasad, and Joginder Singh BioMed Research International Journal, 25-Aug-2022,

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9436577/pdf/BMRI2022-9504787.pdf>

2. *Psoralea corylifolia* Linn: Panacea to several maladies, Neha Mahajan, Bhupendra Koul, **Pankaj Gupta**, Bhahwal Ali Shah, Joginder Singh South African Journal of Botany (SAJM\_3593), Feb 2022 ISSN 0254-6299.(Elsevier) September 2022, 149, 963-993

<https://doi.org/10.1016/j.sajb.2022.01.024>

### 2021

3. A Review on *Arthrobacter sp.* Lipase: A Versatile Biocatalyst for the Kinetic Resolution to Access to Enantiomerically Pure/Enriched Compounds; Pankaj Gupta, Asha Chaubey, Neha Mahajan, Naveen Anand *Chirality*, Wiley; **2021**, 33(5) 209-225. <https://doi.org/10.1002/chir.23304>

4. 1, 2, 3-Triazole: lead molecules for promising drugs: A review Singh R., Kaur, H, Gupta, P *Asian Journal of Chemistry* 33(12), **2021**, ...

### 2018

5. Production and purification of an alkaline lipase from *Bacillus sp.* for enantioselective resolution of ( $\pm$ )- Ketoprofen butyl ester ) Indu Bhushan, Rashmi Saraswat, **Pankaj Gupta**, V. Verma *3 Biotech*.**2018**, 2190-5738, (I.F. 1.497)

6. Enantioselective resolution of 2-arylpropionic acid derivatives employing immobilization of lipase from *Bacillus subtilis* strain Kakrayal\_1 (BSK-L) Indu Bhushan, Rashmi Saraswat, **Pankaj Gupta**, B. A. Shah *Bioresource Technology* 269 (2018) 581–585. (I.F. – 7.5)

7. Biocatalytic approaches towards the stereoselective synthesis of vicinal amino alcohols **Pankaj Gupta**, Neha Mahajan; *New Journal of Chemistry*, 2018, 42, 12296-12327. ISSN No. ISSN 1144-0546 (print) ISSN 1369-9261(online) (I.F. – 3.3)

**2016**  
8. Role of Halogen interactions in Stabilizing crystals of [HgX] Based Hybrids Sumanesh, Anju Awasthi, **Pankaj Gupta** *Chem Sci Trans*, 2016, 5(3) 775-794. ISSN 2278-3318 online & 2278-3458 (print) (peer reviewed)

9. Role of Hg...Hg Interactions in Structure Stability of [HgX]- (X=Cl, Br, I) Based Inorganic –Organic Hybrid Compounds Sumanesh, Anju Awasthi, **Pankaj Gupta** *Chem Sci Trans*, 2016, 5(2) 311-320. ISSN 2278-3318 online & 2278-3458 (print)(peer reviewed)

**2015**  
10. New Insights into the Microbial Degradation of Polyurethanes Neha Mahajan and **Pankaj Gupta** *RSC Adv.* 2015, 5, 41839-41854 (I.F. – 3.2)

**2014**  
11. *Arthrobacter* sp. lipase catalyzed kinetic resolution of BINOL: The effect of substrate immobilization **Pankaj Gupta**, Abdul Rouf, B. A. Shah, Neha Mahajan, Asha Chaubey, S. C. Taneja *Journal of Molecular Catalysis B: Enzymatic* 2014, 101, 35– 39. (I.F. – 2.82)

**2013**  
12. Recent advances in the stereoselective synthesis of 1,3-diols using biocatalysts **Pankaj Gupta**, Neha Mahajan and S. C. Taneja *Catal. Sci. Technol.* 2013, 3, 2462-2480. (I.F. -5.7)

13. An efficient preparation of biologically important 1, 2-amino alcohols **Pankaj Gupta**, Abdul Rouf, B. A. Shah, D. Mukherjee, S. C. Taneja, *Synthetic Communication* 2013, 43, 505-519. (I.F. – 1.06)

14. Bioconversion of sucralose-6-acetate to sucralose using immobilized microbial cells Asha Chaubey, Chand Raina, Rajinder Parshad, Abdul Rouf, **Pankaj Gupta**, S. C. Taneja *Journal of Molecular Catalysis B: Enzymatic* 2013, 91, 81-86. (I.F. – 2.82)

**2012**  
15. Chemoenzymatic synthesis of Doxazosin, Piperoxan, Prosympal, and Dibozane Abdul Rouf, **Pankaj Gupta**, M. A. Aga, B. Kumar, R. Parshad, S. C. Taneja *Tetrahedron: Asymmetry* 2012, 23, 1615–1623. (I.F. – 2.115)

16. Synthesis of pityol: a tetrahydrofuran analogue via co-halogenation reaction **Pankaj Gupta**, Neha Mahajan and S.C. Taneja *Journal of Biosphere* 2012, 1, 16-18. (I.F. –.. )

**2011**  
17. Cyclic trans-β-amino alcohols: preparation and enzymatic kinetic resolution Abdul Rouf, **Pankaj Gupta**, M. A. Aga, B. Kumar, R. Parshad, S. C. Taneja *Tetrahedron: Asymmetry* 2011, 22, 2134–2143. (I.F. – 2.115)

**2009**  
18. *Arthrobacter* sp. lipase modulation via immobilization for preparation of enantiopure masked β-amino alcohols Asha Chaubey, R. Parshad, **Pankaj Gupta**, S. C. Taneja, G. N. Qazi, C.R. Rajan and S. Ponrathnam *Bioorganic & Medicinal Chemistry* 2009, 17, 29-34. (I.F. – 2.93)

19. Saponins as novel TNF-α inhibitors: isolation of saponins and a nor-pseudoguaianolide from *Parthenium hysterophorus* B.A. Shah, Renu Chib, **Pankaj Gupta**, V.K. Sethi, S. Koul, A.K. Saxena, S. S. Andotra, A. Nargotra, S. Sharma, A. Pandey, S. Bani, B. Purnima, S. C. Taneja *Organic and Biomolecular Chemistry* 2009, 7, 3230-3235. (I.F. – 3.564)

20. Structure–activity relationship (SAR) of parthenin analogues with pro-apoptotic activity: Development of novel anti-cancer leads B.A. Shah, R. Kour, **Pankaj Gupta**, A. Kumar, V.K. Sethi, S. S. Andotra, J. Singh, A.K. Saxena, S. C. Taneja *Bioorganic & Medicinal Chemistry Letters* 2009, 19, 4394-4398. (I.F. – 2.45)

## 2008

21. Enantiomerically pure  $\alpha$ -methoxy aryl acetaldehydes as versatile precursors: a facile chemo-enzymatic methodology for their preparation: B. Singh, **Pankaj Gupta**, A. Chaubey, R. Parshad, S. Sharma and S. C. Taneja *Tetrahedron: Asymmetry* **2008**, *19*, 22, 2579-2588. (I.F. – 2.115)
22. An expedient chemo-enzymatic approach towards the synthesis of enantiomerically pure masked 1, 2-amino alcohols: **Pankaj Gupta**, S.C. Taneja, B.A. Shah, D. Mukherjee, R. Parshad, S.S. Chimni, G.N. Qazi *Tetrahedron: Asymmetry* **2008**, *19*, 1898-1903. (I.F. – 2.115)
23. Novel structural analogues of piperine as inhibitors of the NorA efflux pump of *Staphylococcus aureus*: A. Kumar, I.A. Khan, S. Koul, J.L. Koul, S.C. Taneja, I. Ali, F. Ali, S. Sharma, Z.M. Mirza, M. Kumar, P.L. Sangwan, **Pankaj Gupta**, N. Thota, G.N. Qazi. *J. Anti. Chem.* **2008**, *61*, 1270-1276. (I.F. -5.138)

## 2007

24. A facile approach towards enantiomerically pure masked  $\beta$ -amino alcohols: **Pankaj Gupta**, B.A. Shah, R. Parshad, G.N. Qazi and S.C. Taneja, *Green Chemistry* **2007**, *9*, 1120-1125. (I.F. -9.1)
25. Lipase-catalyzed Separation of Geometrical Isomers: Geraniol–Nerol: **Pankaj Gupta**, S.C. Taneja, B.A. Shah, V.K. Sethi and G.N. Qazi. *Chem. Lett.* **2007**, *36*, 1110-1111. (I.F. – 1.8)
25. Odoriferous Cyclic Ethers via Co-Halogenation Reaction: Facile Preparation of Nerol Oxide, Florol<sup>®</sup>, Florol<sup>®</sup> Methyl Ether, and Pityol<sup>®</sup> Methyl Ether: **Pankaj Gupta**, V. K. Sethi, S.C. Taneja, B.A. Shah, S.S. Andotra, S.S. Chimni, S. Koul, and G.N. Qazi. *Helv. Chim. Acta* **2007**, *90*, 196-204. (I.F. -1.1)
26. The formation of novel 1,3-dioxolanes: atypical Baylis–Hillman reaction of a sesquiterpene lactone parthenin: B.A. Shah, S.C. Taneja, V.K. Sethi, **Pankaj Gupta**, S.S. Andotra, S.S. Chimni and G.N. Qazi. *Tetrahedron. Lett.* **2007**, *48*, 955-960. (I.F. – 2.2)
27. Tandem Acetalation-Acetylation of Sugars and Related Derivatives with Enolacetates under Solvent-Free Conditions: D. Mukherjee, B.A. Shah, **Pankaj Gupta** and S.C. Taneja *J. Org. Chem.* **2007**, *72*, 23, 8965-8968. (I.F. – 4.85)
28. Cytotoxic and apoptotic activities of novel amino analogues of boswellic acids: B.A. Shah, A. Kumar, **Pankaj Gupta**, V.K. Sethi, A.K. Saxena, J. Singh, G.N. Qazi and S.C. Taneja *Bio-org. Med. Chem. Lett.* **2007**, *17*, 6411-6416. (I.F. – 2.45)

## Book Publications

1. “*Foundation Course Chemistry-I*” Pankaj Gupta & Deepali Mahajan ISBN No. 978-93-92263-42-2 for Sem -Ist UG (NEP-2020) (2023) Malhotra Brothers Pacca Danga Jammu.
2. “*Experimental Chemistry*” Pankaj Gupta & Neha Mahajan for Semester Ist UG (NEP-2020) (2023) ISBN no. 978-93-92263-50-7, Malhotra Brothers Pacca Danga Jammu.
3. “*Chemoenzymatic Synthesis of Pharmacologically Active Compounds Containing Chiral 1,2-Amino Alcohol Moiety*” **Pankaj Gupta** & Neha Mahajan Book Chapter in Book *Chemistry of Biologically Potent Natural Products and Synthetic compounds* ISBN 1119640342, 9781119640349, pp 93-132; Scrivener Publishing, Wiley (2021).
4. “*Text Book of Organic Chemistry*” Malhotra Brothers Pacca Danga Jammu M.S. Pathania, **Pankaj Gupta**, Manjula Gupta ISBN . 9788194022213 **B Sc. Sem-VI (CBCS) (2019)**.
5. “*An Introduction to Experimental Biochemistry and Cell Biology*” S. Vinesh & Co. Near Sitla Mandir Jalandhar **Pankaj Gupta**, Neha Mahajan for BSc Students ISBN 978-93-87959-34-7 (2019)
6. “*Experimental Chemistry*” Malhotra Brothers Pacca Danga Jammu M. S. Pathania, Rakesh Singh, Jagdish Kumar and **Pankaj Gupta** having ISBN No. 81-8829478-0 for **B.Sc. Semester Ist under CBCS (2017)**.
7. “*Text Book of Organic Chemistry*” Malhotra Brothers Pacca Danga Jammu Naveen Anand, R. K. Gupta, Deepali Mahajan, Bhavana Sharma, **Pankaj Gupta** ISBN 818829495. **B Sc. Sem-VI(NCBCS) (2017)**

8. “*Experimental Chemistry: Chemical Energetics, Equilibria and Functional Organic Chemistry*” Malhotra Brothers Pacca Danga Jammu K. B. Abrol, Rakesh Singh, Sunil K. Bhat, Mohd. Sadeeq and **Pankaj Gupta** having ISBN No. 81-8829469-1 for **B.Sc. Semester II (2016)**.
9. “*Practical manual for Organic chemistry*” Malhotra Brothers Pacca Danga Jammu Rakesh Singh and **Pankaj Gupta** having ISBN No. 81-8829460-8 for **B.Sc. Semester VI (2016)**.
10. “*Practical manual for Organic chemistry*” **Volume I**; K.B Abrol, Rakesh Singh and **Pankaj Gupta** having ISBN No. 81-88294-05-05 for **B.Sc. Semester III (2015)** .

## Patents

1. A novel process for the synthesis of Nerol Oxide;  
V. K. Sethi, S. S. Andotra, S. C. Taneja, **Pankaj Gupta**, G. N. Qazi, *USP- 7166728*.
2. Aromatic amides as potentiators of bioefficacy of anti infective drugs  
S. Koul, J. L. Koul, S. C. Taneja, **Pankaj Gupta**, I. A. Khan, Z. M. Mirza, A. Kumar, R. K. Johri, M. Pandita, A. Khosa, A. K. Tikoo, S. C. Sharma, V. Verma, G. N. Qazi; *US-2007-0004645*.

## Member of selection committees/academic bodies

- Remained a member of Selection Committee as **Subject Expert** for the selection of PG teachers in the field of Chemistry in Army Public School Janglote on 6<sup>th</sup> March 2019.
- Remained a member of Selection committee for the selection of **Project Assistant** in UGC sponsored project on 6<sup>th</sup> June 2017.

## Reviewer of international Journals

3-Biotech (Springer)

Chirality (wiley)

## Academic Qualifications

Examination Passed	Board/ University	Subjects	Year	Division / Grade / Merit
SSC	J&K Board	Math, Science, S. Science, English, Hindi	1996	Ist
Higher Secondary	J&K Board	Physics, Chemistry, Math, Eng.	1998	Distinction (80%)
Bachelor's Degree(s)	Jammu University	Physics, Chemistry, Math, Eng.	2001	Distinction (78%)
Master's Degree(s) (M.A/M.Sc.)	Jammu University	Chemistry	2003	Ist (69%)
NET/SLET	CSIR	Chemical Sciences	2003, 2005	--



PhD	Guru Nanak Dev University, Amritsar	Chemistry	2009	--
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### Research Experience

Research Stage	Title of Work /Thesis	University where the work was carried out	Year
M. Phil or equivalent	---	--	--
Ph.D.	<i>Biocatalytic Transformations of some important prochiral and racemic molecules</i>	Guru Nanak Dev University & IIM Jammu	2004-2009
Training (ICS UNIDO Fellowship Programme)	<i>Synthesis of aldehyde peptides as inhibitors of dengue virus NS3 protease</i>	University of Trieste, Italy	2009

### Teaching Experience

Courses Taught	Name of the University/ College/Institution	Duration
Hr Sec Part II (School Education Deptt.)	Govt. Hr. Sec. School Dhakhar	1 year and 8 months
U.G. (B.Sc.)	Govt Degree College Kathua, and Govt. Degree College Billawar	13.5 years (appr.)
P.G. (M.A./M.Sc.,etc.)	--	--
Any other( Remedial coaching to minority community)	Govt. Degree College Kathua,	One month (appr.)

### Extension Work / Community Service

Working as **Nodal Coordinator**, Virtual Lab Nodal Center (VLNC) established by IIT, Bombay in Govt. Degree College, Kathua. Received letter of appreciation from Director IIM Jammu for coordination with IIM Jammu in successfully organizing Young Startup Conclave in GDC Kathua on 28th and 29th January 2023.

Worked as Observer in NEET examination conducted by NTA for the year 2022 & 2023.

Worked as research coordinator, Physical Sciences.

Worked as Coordinator, Energy Sector.

Worked as Asstt Coordinator, IGNOU study center 1206, GDC Kathua w.e.from 1st Jan 2023 to 8<sup>th</sup> Nov 2023.

Worked as coding officer in cluster evaluation center established by University of Jammu in Govt. Degree College Kathua for evaluation of Sem VI (CBCS) answer scripts for the session 2020.

Worked as Coordinator in cluster evaluation center established by University of Jammu in Govt. Degree College Kathua for evaluation of Sem I (NEP) and Sem VI answer scripts for the session 2022-23.

Worked as an active member in various college committees such as:

Admission committee, IQAC , NAAC, UGC committee, Hostel Committee, Examination Committee, Tour and Picnic Committee, Research Committee, Facilitation centre for Prime Minister special scholarship scheme for J&K students, Scholarship committee, as group leader in COVID-19 management committee, as coordinator in digital teaching and e learning etc.