

Curriculum Vitae

Rabia Hamid, PhD

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Present status

Associate Professor (Jan 2016-present)

Department of Biochemistry

The University of Kashmir

Srinagar-190006 (India)

Administrative and Academic positions held

- **Coordinator, Department of Nanotechnology, University of Kashmir (Feb2017-present)**
- **Nodal Officer, Directorate of Internal Quality Assurance Cell (DIQAC), Department of Biochemistry, University of Kashmir (2006-Present)**
- **Academic Counselor, Department of Biochemistry, University of Kashmir (2014-2016)**
- **Coordinator, Special Assistance Programme-UGC (2015)**

Education

- Ph.D., Biochemistry, University of Kashmir, Srinagar, India (2007)
- M.Phil., Biochemistry, University of Kashmir, Srinagar, India (1994)
- CSIR-UGC NET, Life Sciences, India (1990)
- M.Sc., Biochemistry, University of Kashmir, Srinagar, India (1989)
- B.Sc., Biology, University of Kashmir, Srinagar, India (1987)

Honors/Fellowships/Awards

- Awarded **Merit Certificate & Meritorious Student Scholarship by the J&K Board of Education** for ranking 11th in the State of Jammu & Kashmir in Matriculation, 1982.
- **Top Ranker** in medical stream in B.Sc., The University of Kashmir, India, 1987.
- Recipient of **University Outstanding Merit Fellowship** in M.Sc.
- **CSIR-UGC National Eligibility Test (NET) Qualified**, 1990.
- Recipient of **Junior Research Fellowship**, University of Kashmir, India, 1991.
- Graded as **“Excellent” by the IQAC**, The University of Kashmir based on students’ feedback.
- Awarded for **‘Best Paper Presentation’** by Academy of Environmental Biology, India, and National Environmental Science Academy, New Delhi (2008, 2013).
- **Reviewer, The Journal of Food Quality, Current Microbiology** (Springer), **Yeast** (Wiley Online Library), **Biotechnology Journal International, International Journal of Biological Macromolecules** (Elsevier), **Chemical Neuroscience** (American Chemical Society), **Gene** (Elsevier), **Natural Product Research** (Taylor and Francis), **European Journal of Integrative Medicine** (Elsevier)
- Recipient of the **‘Scientist of the Year Award’**, 2012 conferred by **NESA** at **The Indian National Science Academy (INSA)**, India
- On Panel of Advisory Board ‘World Research Journal of Biochemistry’
- Nominated for membership to **American Chemical Society, Washington** (2013)
- Nominated & screened for inclusion in Marquis **‘Who's Who in the World’**, USA (2014)
- ‘Isolation and antiproliferative activity of Lotus corniculatus lectin towards human tumour cell lines’ identified as a **Key Scientific Article contributing to excellence in biomedical research to be featured in coming edition of Global Medical Discovery Series** (2015)

Occupation

Associate Professor

Place of work

Post Graduate Department of Biochemistry, University of Kashmir, Srinagar-190006 (J&K)

Status as on August 01, 2018: Indian National, Female, Married

Topic of M Phil Thesis Studies on Plant Lectins (*Prof. Masroor Alam Baig - supervisor*)

Topic of Ph.D. Thesis Biochemical Studies on Lectins (*Prof. Akbar Masood- supervisor*)

Experience

Teaching

Twenty-four years (Lecturer adhoc -7 yrs 4 mos; Assistant Professor 14yrs 4 mos; Associate Professor-2yrs 6mos)

Courses Taught: Theory and Practical courses in ***Biomolecules (Structure and functions of proteins carbohydrates, lipids, nucleic acids), Metabolism, Microbiology, Immunology, Physiology, Clinical Biochemistry, Biochemical Techniques, Enzymology, Molecular Biology, Nutritional Biochemistry, Biology of Chronic Diseases, Free Radical Biology***

In charge ***Seminars and Extension lectures,***

In charge ***M.Phil/Ph.D examinations***

Framing and modifications of PG and MPhil/PhD curricula as member of Board of PG and Research studies

Teacher In charge for framing and designing the Integrated PhD (Biochemistry) Course work curriculum

Research

Seventeen years

Bio-CARe RGO Scientist, Department of Biotechnology, India (2014-2017)

No. of M.Phil scholars supervised/under supervision: ***Twelve*** (Ten awarded)

No. of Ph.D scholars supervised/under supervision: ***Ten*** (One awarded)

Administrative/Other

- ***Coordinator-Head, Department of Nanotechnology, University of Kashmir (2017- present)***
- ***In charge Departmental Purchase Committee for equipments & chemicals***
- ***In charge FIST grant proposal, Department of Biochemistry-(Rs. 52 lac grant, 2009)***
- ***Coordinator, SAP (Special Assistance Programme, UGC) grant proposal, Department of Biochemistry***
- In charge PG admissions, Department of Biochemistry, University of Kashmir
- Organized and conducted educational tours of the Department of Biochemistry to National Institutes of repute, as ***Teacher in charge Tours***
- Member Organizing Committee,
-Science Congresses held at University of Kashmir 2006-present
-Symposia organized by Department of Biochemistry, University of Kashmir

Research Projects

Completed:

S.No.	Title	Agency
1.	Isolation, Purification and evaluation of anticancer activity of lectins from <i>Euphorbia helioscopia</i> and <i>Lotus Corniculatus</i>	UGC, India
2.	<i>In vivo</i> study of antioxidant and anticancer activities of <i>Elsholtzia densa</i>	DBT

Ongoing:

S.No.	Title	Agency
1.	Protein and gene expressions of IL1 $\kappa\beta$, NF $\kappa\beta$ 1, NF $\kappa\beta$ 2, PPAR γ , NOS2, COX2, TNF α in LPS induced inflammatory response in rats and effect of <i>Cousinia thomosonia</i>	DST, India

Submitted:

S.No.	Title	Agency
1.	Starch nanoparticle preparations from underutilized/waste sources and their utilization in nano delivery of vitamins for food applications (collaborative)	DBT, India
2.	An Investigation into the anti-proliferative and apoptotic capability of some unexplored medicinal wealth of Kashmir valley and isolation of bioactive components	National Medicinal Board, AYUSH
4.	Bioprospecting of <i>Thymus linearis</i> (Benth. ex Benth) for its anticancer activity	DBT
5.	Expression analysis of Proinflammatory factors and Sestrin3 gene in hypertensive patients and the response of peripheral blood monocytes to Piperine	ICMR

Field of Specialization

Protein Biochemistry/Lectins/Medicinal plants Research

Research Techniques in use

- **Chromatography (GF/IEX/Affinity/SGC/HPLC)**
- **Soxhlet Extraction**
- **LC-MS**
- **Electrophoresis**
- **PCR**
- **ELISA**
- **Western Blotting**
- **Animal Cell Culture**
- **Animal models**

Research in progress

- Isolation of Active Compounds from plants and Expression status of major proteins in Type-II Diabetes
- Role of low grade inflammation and gene expression of pro and anti-inflammatory genes IL-10, IFN-alpha and IFN-gamma in type 2 diabetes and metabolic syndrome
- Implications of α -1 Syntrophin and P66Shc interaction on cytoskeletal dynamics in Breast Carcinoma Cells
- Blocking stem cell driven colon carcinogenesis with isolated compounds of *Alcea rosea* active seed extract.
- Phytochemical screening of medicinal plants of Kashmir valley and pharmacological validation of antioxidant/anticancer/antidiabetic/immunomodulatory/hypolipidemic activities
- Effect of plant products on progression and management of Alzheimers' disease.

Completed research programmes:

- Isolation of lectins from the medicinal plants of Kashmir valley and evaluation of antimicrobial and anti-cancer activities. The plants studied include, *Lotus corniculatus*, *Indigofera heterantha*, *Euphorbia helioscopia* and *Prunella vulgaris*
- Evaluation of antimicrobial, antioxidant and anticancer activities of *Elsholtzia densa*, *Arnebia benthamii* and *Thymus linearis*
- Antioxidant and anti-inflammatory activities of *Atropa acuminata*, *Taxus walichiana*, *Mecanopsis aculeate* and *Dipsicus inermis*
- Immunomodulatory activity of *Juniperus squamata*
- Phytochemical screening of *Eremurus himaliacus*, and evaluation of its medicinal properties.
- Hypermethylation studies in colorectal and stomach cancers in Kashmir
- Polymorphism studies on *XRCC3* gene and risk of gastric cancer in Kashmiri population
- Antihyperlipidemic activity of *Fragaria nubicola* extracts
- Antidiabetic effect of *Lagotis cashmeriana* extracts
- Neuroprotection of plant extracts-*Artemesia amygdalina* and *Gentiana kurroa*, against H₂O₂ insult and amyloid beta in N2A cells; Upregulation of antioxidant genes like Nrf-2, heme oxygenase and Keap

Currently the focus is on:

- Anti-Diabetic activity of *Artemesia moorcroftiana*, isolation of active compounds, metabolic profiling of diabetic and non-diabetic animal models and expression status of major proteins involved in response to extracts/pure molecules/nanoformulations.
- Blocking stem cell driven colon carcinogenesis with isolated plant derived compounds.
- Role of oxidative stress in Breast cancer.
- Expression of pro and anti-inflammatory genes in type 2 diabetes and metabolic syndrome.
- *In vitro* and *in vivo* study of antioxidant, anti-inflammatory, anti-Alzheimer's, anti-cancer and hypolipidemic activities of medicinal plants.
- Expression analysis of Proinflammatory factors and Sestrin3 gene in hypertensive patients and the response of peripheral blood monocytes to Piperine.

Fellowships: UGC-sponsored "Fellowship for Meritorious Students" from 2009 for a period of 5 years for MPhil/PhD scholars under supervision on purification of plant lectins and evaluation of their medicinal properties.-*completed*

DBT "BioCARE Fellowship" (Biotechnology Career Advancement and Re orientation Programme) for Women Scientists, 2014-2017

Research collaborations

- School of Biotechnology, Jawaharlal Nehru University, New Delhi for computational studies and evaluation of medicinal properties of purified bioactive plant molecules
- IIIM, Jammu- Evaluation of anticancer activity of lectins and bioactive molecules from medicinal plants of Kashmir
- IIIM, Srinagar- Bioprospecting of *Thymus linearis* in anticancer drug development
- Govt. Medical College, Srinagar
 - Hypermethylation studies / gene polymorphisms in colorectal and stomach cancers
 - Role of low grade inflammation and gene expression of pro and anti-inflammatory genes IL-10, IFN-alpha and IFN-gamma in type 2 diabetes and metabolic syndrome
- Sher-i-Kashmir Institute of Medical Sciences, Srinagar- Expression analysis of Proinflammatory factors and Sestrin3 gene in hypertensive patients and response of peripheral blood monocytes to Piperine
- Department of Nanotechnology, University of Kashmir - nanoformulation of bioactive plant extracts.
- Department of Food Technology, University of Kashmir - bioactive nano-carrier delivery system and utilization for making functional foods

- Department of Biotechnology, University of Kashmir for signaling studies, oxidative stress and cytoskeletal dynamics in Breast cancer
- Center for Research and Development, University of Kashmir- Neuroprotective effects of plant extracts-*Artemesia amygdalina* and *Gentiana kurroa* against oxidative stress
- Department of Environmental Sciences, University of Kashmir- Evaluation of Antimicrobial and Antioxidant activities of Medicinal plants
- SKUAST, Srinagar for immunomodulatory activity of *Juniperus squamata*

Membership of Professional Societies/Academic Bodies/Organizing Committees

American Society for Microbiology, (USA) LifeMember
 Society of Biological Chemists (India) Life Member
 National Environmental Science Academy (NESA) Life Member
 Academy of Environmental Biology (India)
 Chairperson Departmental Committee, Department of Nanotechnology, University of Kashmir
 Member Academic Council, University of Kashmir
 Member Board of Research Studies in Biological Sciences, University of Kashmir
 Member, College Development Board as Expert in Biochemistry
 Member Departmental Committee in Biochemistry University of Kashmir
 Member, Departmental Research Committee in Biochemistry University of Kashmir
 On Panel of Advisory Board ‘World Research Journal of Biochemistry’ International Journal Bioinfo Publications
 Jammu & Kashmir Academy of Sciences, University of Kashmir
 Member, Board of Undergraduate and Post-graduate Studies in Biochemistry, University of Kashmir
 Member, Board of Examiners, Department of Biochemistry, University of Kashmir
 Member Organizing/Technical Committees, JK Science Congresses, University of Kashmir, (2006-2018).
 Member Organizing Committee, One day National Symposium on “Esophageal Cancer in Kashmir” organized by Department of Biochemistry, University of Kashmir, Srinagar, Feb 4 (2011)
 Member Technical Committee, Two-day conference on “Recent Trends in Biosciences” organized by Department of Biochemistry and Biotechnology, S.P. College, Srinagar and Department of Biochemistry, University of Kashmir, 2011, Oct 3-4.

Publications/Books

Citations: 250; h-index: 8; i10-index:8

1. Roqia Ashraf, Hasham S. Sofi, Aijaz Malik, Mushtaq A Beigh, ***Rabia Hamid*** and Faheem A. Sheikh (2018) Recent Trends in the Fabrication of Starch Nanofibers: Electrospinning and Non-electrospinning Routes and Their Applications in Biotechnology ***Appl Biochem Biotechnol (Springer)*** <https://doi.org/10.1007/s12010-018-2797-0> ISSN: 0273-2289 (print version) ISSN: 1559-0291 (electronic version) Online first 1-28 **I.F: 1.751**
2. Ovais Zargar, Rohina Bashir, Sumaya Hassan, Muzafar Bhat, Showkat A Ganie, and ***Rabia Hamid**** (2018) Hepatoprotective Potential of *Elsholtzia densa* against acute and chronic models of liver damage in wistar rats. ***Drug Research. (Thieme Medical Publishing Group)*** ISSN: 2194-9379. 68: 1–9 **I.F: 0.701** DOI <https://doi.org/10.1055/s-0044-102094>.
3. Suhail Anees, Khalid Dar, Aashiq Bhat, Showkat Ganie, ***Rabia Hamid**** (2018) Evaluation of antioxidant and anti-hyperlipidemic effect of active extracts of *Fragaria nubicola*. ***International Journal of Pharmaceutical Sciences and Research***. ISSN: 2320-5148 9(6): 2228-2237. **I.F: 0.59 (Five yr I.F: 1.83)**.
4. Rohaya Ali, ***Rabia Hamid**** et al. (2018) Evaluation of Antioxidant and Immunomodulatory potential of methanolic extract of *Juniperus squamata*. ***Free Radicals and Antioxidants*** (SciBiolMed.Org and Phcog.Net) ISSN: 2231-2536. I.F: 1.069. 8(2): 111-119 DOI: 10.5530/fra.2018.2.17
5. Muzafar Ahmad Bhat, Showkat Ahmad Ganie, Khalid Bashir Dar, Rohaya Ali, ***Rabia Hamid****. (2018) *In-vitro* Antioxidant Potential and Hepatoprotective activity of *Taxus wallichiana*. ***Asian journal of***

6. Sumaya Hassan, Nasreena Sajjad, Rohaya Ali1, Showkat Ahmad Ganie, **Rabia Hamid*** (2018) *In Vitro* Antioxidant Potential of various Extracts Of *Meconopsis aculeate*. **International journal of Advance Research in Science and Engineering** ISSN-2319-8354, 7(4): 1984-1995.
7. Nasreena Sajjad, Abubakar Wani, Rohaya Ali, Sumaya Hassan, Bashir Ahmed Ganai, **Rabia Hamid** (2018) Preliminary Phytochemical Screening and Acetylcholinesterase Inhibitory Activity of *Artemisia amgdalina*. **International journal of Advance Research in Science and Engineering** ISSN-2319-8354, 7(4): 2092-2098.
8. Nasreena Sajjad, Rohaya Ali, Sumaya Hassan, Bashir Ahmed Ganai, **Rabia Hamid** (2018) Oxidative Stress In Neurodegenerative Diseases. **International Journal Of Management, Technology And Engineering** ISSN No: 2249-7455, 8(7): 508-514.
9. Rohaya Ali, Nasreena Sajjad, Sumaya Hassan, **Rabia Hamid*** (2018) Hepatoprotective effect of methanolic extract of *Juniperus squamata* leaf against carbon tetrachloride induced hepatotoxicity in rats. **International journal of Advance Research in Science and Engineering** ISSN-2319-8354, 7(4): 2658-2667.
10. KB Dar, **Rabia Hamid** et al. (2018) Modern computational strategies for designing drugs to curb human diseases: A prospect. **Current Topics in Medicinal Chemistry (Bentham Science Publishers)** ISSN: 1568-0266 (print); 1873-4294 (web) **I.F: 3.374**. Accepted.
11. Abhinav Grover, **Rabia Hamid**, Aditi Singh, Salma Jamal, Sukriti Goyal, Divya Wahi, Ritu Jain (2017) Cheminformatics models based on machine learning approaches to identify novel histone lysine methyltransferase NSD2 antagonists. **Computational Biology and Chemistry**. ISSN: 1476-9271. **I.F: 1.43 (Elsevier)**. In communication.
12. Rohaya Ali, Sumaya Hassan, Nasreena Sajjad, **Rabia Hamid*** (2018) Hepatoprotective effect of methanolic extract of *Juniperus squamata* leaf against carbon tetrachloride induced hepatotoxicity in rats. **International journal of Advance Research in Science and Engineering** ISSN-2319-8354, 7(4): 2658-2667.
13. Ovais Zargar, Rohina Bashir, Muzafar Ahmad Bhat, Sumaya Hassan, Rohaya Ali, Nasreena Sajjad, Showkat Ahmad Ganie, **Rabia Hamid*** (2018) *Elsholtzia densa* methanolic extract modulates inflammatory markers in LPS challenged RAW 267.4 cells and in vivo models of inflammation. **Oriental Pharmacy and Experimental Medicine (Springer)** ISSN: 1598-2386 (print version) ISSN: 2211-1069 (electronic version) **I.F: 0.477**. In communication.
14. Rohina Bashir, Ovais Zargar, Akhtar H Malik, **Rabia Hamid*** (2018) *Thymus linearis* methanolic extract modulates the pro-inflammatory and anti-inflamm 0090-6964atory cytokines levels in *in-vitro* and *in-vivo* models of inflammation. **Anti-Inflammatory and Anti-Allergy Agents in Medicinal Chemistry (Bentham Science)** ISSN: 1875-614X (Online) ISSN: 1871-5230 (Print) In communication.
15. Faheem Sheikh, Hasham Sofi, Roqia Ashraf, Mushtaq A Beigh, Shabana Arjamand, **Rabia Hamid**, Javier Macossay-Torres (2018) Novel and facile approaches by functionalization and blending in chitosan nanofibers appropriate for biomedical applications. **Bioactive Carbohydrates and Dietary Fibre (Elsevier)** ISSN: 2212-6198 **I.F: 0.946**. In communication.
15. Faheem Sheikh, Hasham Sofi, Roqia Ashraf, Mushtaq A Beigh, Shabana Arjamand, **Rabia Hamid** (2018) Recent progress in polymeric nanofibres incorporated with phytoextracts: Applications in tissue engineering, drug delivery and wound healing. **Annals of Biomedical Engineering (Springer)**. ISSN: 0090-6964 (print version) ISSN: 1573-9686 (electronic version) **I.F: 3.405**. In communication
16. KB Dar, **Rabia Hamid** et al. (2018) Molecular mechanisms and drug-targets for neurodegenerative diseases: An insight. **Neurobiology of Disease (Elsevier)** ISSN: 0969-9961 **I.F: 5.05**. Accepted.
17. KB Dar, **Rabia Hamid** et al. (2018) Cancer: Proteomic Drug Targets and Therapeutics. **Current cancer drug targets (Bentham Science Publishers)** ISSN: 1873-5576 (Online) ISSN: 1568-0096 (Print) **I.F: 2.99**. Accepted.
18. **Rabia Hamid*** (2017) **Textbook of Free Radicals: Concepts in Biology and Medicine**. Atlantic Publishers and Distributors, New Delhi ISBN: 978-81-269-2643-5 (HB) 978-81-269-2658-9 (PB).
19. **Rabia Hamid*** and Shaista Rafiq (2017) Lectins: From Recognition Molecules to Anti-cancer Agents. In: **Phytochemistry and Pharmacology of Medicinal Herbs** (Abbas Ali Mahdi, Murtaza Abid, M.M. Abid Ali Khan and Raaz K. Maheshwari, Eds) Chapter 4 pp 34-48 ISBN: 9789385995460, Publisher: Lenin Media Pvt. Ltd. Delhi, India.

20. Ovais Zargar, Muzafar Bhat, Rohaya Ali, Showkat A Ganie, and **Rabia Hamid*** (2017) Plant Phenolics in Cancer Chemoprevention. *International Journal of Development Research*. ISSN: 2230-9926. Indexed and Refereed. Vol. 7(8): 14541-14544.
21. Ovais Zargar, Rohina Bashir, Sumaya Hassan, Muzafar Bhat, Showkat A Ganie, and **Rabia Hamid*** (2017) Evaluation of Anti-inflammatory and Arthritic activities of *Elsholtzia densa*. *International Journal of Basic and Applied Biology*. ISSN: 2349-5839 (online), 2349-5820 (print). 4(4): 192-197.
22. Ovais Zargar; Rabia Hamid, et al (2016) Free Radical Scavenging and Cytotoxic Activity of Seed Extracts of *Podophyllum hexandrum*. *Phytotherapie (Springer)* ISSN: 1624-8597 (Print) 1765-2847 (Online), Indexed and Refereed. First Online: 24 October 2016 pp 1-9 DOI: 10.1007/s10298-016-1072-1.
23. Newsheen Shameem, **Rabia Hamid**, et al. (2015) Antimicrobial and antioxidant activity of methanol extracts of *Arnebia benthamii* (Wall ex. G. Don) Johnston—a critically endangered medicinal plant of North Western Himalaya. *Journal of Analytical Science and Technology (Springer)* ISSN: 2093-3371 6:36 (1-8) Dec 10; DOI 10.1186/s40543-015-0076-z
24. Haamid Bashir, **Rabia Hamid**, et al. (2015) Polymorphism of the XRCC3 gene and risk of gastric cancer in Kashmiri population: a case control study. *European Journal of Cancer Prevention* ISSN: 0959-8278 Online ISSN: 1473-5709. **I.F= 2.974** doi: 10.1097/CEJ.000000000000115 24(3) 165-175. Indexed and Refereed.
25. Shaista Rafiq, et al., and **Rabia Hamid***. (2014) Purification and partial Characterization of a Fructose-binding lectin from the leaves of *Euphorbia helioscopia*. *Pak. Journal of Pharmaceutical Sciences*. ISSN 1011-601X **I.F: 1.103**. H index=17 Vol. 27(6) November: 1805-1810 Indexed and Refereed.
26. Ahlam Mushtaq, **Rabia Hamid**, et al. (2014) Phytochemical Screening, Physicochemical Properties Acute Toxicity Testing and Screening of Hypoglycaemic Activity of Extracts of *Eremurus Himalaicus* Baker in Normoglycaemic Wistar Strain Albino Rats. *Biomed Research International: Therapeutic Potential of Natural Pharmacological Agents in the Treatment of Human Diseases*: ISSN: 2314-6133 (Print) ISSN: 2314-6141 (Online) **IF: 2.88** H index=9 Vol.2014: Article ID 867547, 1-6 <http://dx.doi.org/10.1155/2014/867547>. Indexed and Refereed.
27. Jaspreet K Dhanjal, **Rabia Hamid**, et al. (2014) Mechanistic insights into mode of action of potent natural antagonists of BACE-1 for checking Alzheimer's plaque pathology. *Biochemical and Biophysical Research Communications*. (Elsevier) ISSN: 0006-291X **IF: 2.559**. H index=180. 443(3): 1054-1059 DOI: 10.1016/j.bbrc.2013. 12.08. Indexed and Refereed.
28. Manisha Goyal, **Rabia Hamid** et al. (2014) Development of novel dual inhibitors against Alzheimer's using fragment-based QSAR and molecular docking approaches. *Biomed Research International: Integrative Genomics and Computational Systems Medicine (Hindawi)*: ISSN: 2314-6133 (Print) ISSN: 2314-6141 (Online) **IF: 2.88** H index = 9 Vol. 2014: 1-12 Article ID 979606, doi: <http://dx.doi.org/10.1155/2014/979606>. Indexed and Refereed.
29. Showkat Ganie, **Rabia Hamid**, et al. (2014) Antioxidant and hepatoprotective effects of *Cratagus songerica* methanol extract *Journal of Environmental Pathology, Toxicology and Oncology* Print: 0731-8898 ISSN Online: 2162-6537 33(2): 131–143 **I.F: 1.107** ISSN DOI: 10.1615/ JEnviron PatholToxicolOncol. 2014010606. Indexed and Refereed.
30. Showkat Ahmad Ganie, **Rabia Hamid**, et al. (2014) In vitro antioxidant and cytotoxic activities of *Arnebia benthamii* (Wallex.G.Don)-A critically endangered medicinal plant of Kashmir valley. *Oxidative Medicine and Cellular Longevity*. ISSN: 1942-0900 (Print) ISSN: 1942-0994 (Online) **I.F 3.39** H Index=16 Volume 2014, Article ID 792574, 8 pages <http://dx.doi.org/10.1155/2014/792574>. Indexed and Refereed.
31. Shaista Rafiq, et al., and **Rabia Hamid***. (2013) Antiproliferative activity of *Lotus corniculatus* lectin towards Human tumor cell lines. *Phytomedicine*. ISSN: 0944-7113. 21: 30–38. Doi: 10.1016/j.phymed.2013.08.005 **I.F: 3.258**. H index=64. Indexed and Refereed.
32. Sakeena, et al., and **Hamid, R***. (2013). Evaluation of Antimicrobial Activity of a Lectin Isolated and Purified from *Indigofera heterantha*. *Advances in Bioscience and Biotechnology*. 4(11): 999-1006. ISSN: 2156-8456 (Print) ISSN: 2156-8502 (Online) **I.F: 0.43** Indexed and Refereed.
33. **Rabia Hamid** (2013). Research Prospects in Biotechnology in Higher Education Scenario. In: Higher Education in India (Kumar and Kumar eds.) Atlantic Publishers, India. pp 316-329. ISBN: 978-81-269-1840-9.

34. Misba Khan, et al., and **Rabia Hamid*** (2013). *In Vitro* Antimicrobial Potentiality of *Elsholtzia Densa* against Pathogenic Bacterial and Fungal Strains. **Journal of Pure and Applied Microbiology**. ISSN: 0973-7510. 7(2): 1019-1026 **I.F: 0.065**. H index=4. Indexed and Refereed.
35. **Rabia Hamid***, et al. (2013). Lectins: Proteins with Diverse Applications. **Journal of Applied Pharmaceutical Science**. ISSN: 2231-3354. 3(4, S1): 93-103. Indexed and Refereed.
36. Haamid, B., et al., and **Rabia Hamid**. 2013 'Hypothyroidism: Its screening and management and role in erythrocyte abnormalities: A systematic review'. **International Journal Of Medical And Pharmaceutical Sciences** 03 (07):18-25. Print ISSN 2231- 2188; E-ISSN: 2231-685X. SJ **I.F: 5.001**. Indexed and Refereed.
37. **Rabia Hamid**** (2013) Hypothyroidism in Women. In: Sustainable Development of Women-Issues and Problems, (D. Pulla Rao Ed.) pp. 23-32 Mangalam Publications, Delhi. 978-93-81142-88-2.
38. Haamid B, **Rabia Hamid**, et al. (2012). Comparison of hematological parameters in untreated and treated Subclinical hypothyroidism and Primary hypothyroidism Patients. **Medical Journal of the Islamic Republic of Iran** (MJIRI). ISSN: 1016-1430 26 (4): 172-178. H index=5 Indexed and Refereed.
39. S. A. Ganie, **Rabia Hamid**, et al. (2012) Radical scavenging and antibacterial activity of *Arnebia benthamii* methanol extract. **Asian Pacific Journal of Tropical Medicine (Elsevier)**. ISSN No.: 1995-7645. 5(10): 766–772. **I.F: 1.225** H index= 9. Indexed and Refereed.
40. **Rabia Hamid*** (2012) Understanding Carbohydrate Metabolism Vol. I. Kashmir Book Trust, Publishers & Distributors, JK India ISBN No.: 9788190864244.
41. **Rabia Hamid*** (2012) Understanding Carbohydrate Metabolism Vol. II. Kashmir Book Trust, Publishers & Distributors, JK India ISBN No.: 9788190864251.
42. **Rabia Hamid****. (2012) A Handbook of Lectins - Structure and Biomedical Applications. **Lambert Academic Publishing House, Germany**. ISBN: 978-3- 8473-4275-5
43. Khan, M., et al., and **Hamid, Rabia***. (2011) Free Radical Scavenging Activity of *Elsholtzia densa*. **Journal of Acupuncture and Meridian Sciences** 5(3): 104-111 DOI.: 10.1016/j.jams.2011.12.001. ISBN No.: 2005-2901. **H-Index: 7. Elsevier** Indexed and Refereed.
44. I. H. Wani, et al., and **R. Hamid***. (2011) Isolation and partial characterization of a lectin from *Prunella vulgaris* and evaluation of its potential antimicrobial activity. **Journal of Pharmacy Research**. 4(10): 3531-3534. ISSN: 0974-6943. **Elsevier**. Indexed and Refereed. **I.F: 2.5**
45. **Rabia Hamid**** and Akbar Masood. Plant Lectins. (2010). **Lambert Academic Publishing**, Germany. ISBN NR: 978-3-8383-7156-6.
46. Bashir, H., Khan, T., Masood, A., and **Hamid, R***. (2010) Isolation, Purification and Characterization of a Lectin from a local Kashmiri variety of soybean (*Glycine max*). **Asian Journal of Biochemistry**. 5(3): 145-153. DOI: 10.3923/ajb.2010.145.153. ISSN No: 1815-9923. Indexed and Refereed. H index=6.
47. Parray, A.S., **Hamid, R.**, et al. (2010) Purification and Partial Characterization of a Lectin from the seeds of *Pisum sativum* Var. local Kashmiri. **Advances in Plant Sciences**. 23(II): 527-531. ISSN No.: 0970-3586. Indexed and Refereed.
48. **Hamid, R****, and Masood, A. (2009) Dietary Lectins as disease causing toxicants. **Pakistan Journal of Nutrition** 8(3): 293-303. ISBN No.: 1680-5194. H index=15. Indexed and Refereed.
49. **Hamid Rabia**** and Masood Akbar (2007). Studies on Chemical Modification of *Crotalaria pallida* Lectin. **Research Journal of Biotechnology**. 2(2): 20-31. ISBN No.: 0973-6263. **I.F: 0.284**. Indexed and Refereed.
50. **Hamid, R****, Akbar Masood and M. A. Baig (1999), Isolation and Partial Characterization of a Lectin from the seeds of *Crotalaria pallida*. **Journal of Plant Biology**. 26(3): 199-204. **I.F: 1.07** ISSN. No.:0972-3862. Indexed and Refereed. H index=15
51. Ganai, B. A., et al., and **Rabia, H** (1996) Effect of Gaseous Air Pollutants on Enzymes Activities. **J. Oriental Sci**, 21: 83-87. ISSN No: 0971-703 X. Indexed and Refereed.

* Corresponding author

** Main and corresponding author

Conference/Symposia/Workshops/Taskforce Meetings With Paper Presentations/Proceedings

1. Sumaya Hassan, Rohaya Ali, Nasreena Sajjad, Muzaffar A. Bhat, Rohina Bashir, Ovais A. Zargar, Showkat A. Ganie and Rabia Hamid* (2018) Hepatoprotective activity of *Dipsacus inermis* against CCl₄ induced oxidative damage in rats- An *in vivo* study. Three day National Seminar Animal Science Congress: Horizons in Zoological Studies, organized by the Department of Zoology, University of Kashmir, Aug 4-6.
2. Rohaya Ali, **Rabia Hamid***, et al. (2018) “In vitro rat lymphocyte proliferation induced by different extracts of junipers Squamata”. Recent Advances in Understanding the Role of Phytochemical in Human Health organized by Department of Food Science and Technology, University of Kashmir, July 25-26.
3. Sumayah Hassan,, **Rabia Hamid***, et al. (2018) “Phytochemical screening and hepatoprotective effects of meconopsis aculeate extract against CCl₄ induced oxidative damage in rats”. Recent Advances in Understanding the Role of Phytochemical in Human Health organized by Department of Food Science and Technology, University of Kashmir, July 25-26.
4. Muzaffar Ahmad, **Rabia Hamid***, et al. (2018) “Anti-inflammatory activity of *Taxus wallichiana* extracts -in vivo and in vitro study”. Recent Advances in Understanding the Role of Phytochemical in Human Health organized by Department of Food Science and Technology, University of Kashmir, July 25-26.
5. Nasreena Sajjad, **Rabia Hamid***, et al. (2018) “Phytochemical screening and antioxidant activity of artemisia amygdalina”. Recent Advances in Understanding the Role of Phytochemical in Human Health organized by Department of Food Science and Technology, University of Kashmir, July 25-26.
6. Suhail Anees, **Rabia Hamid***, et al. (2018) “Phytochemical screening and antioxidant potential of fragaria nubilicola”. Recent Advances in Understanding the Role of Phytochemical in Human Health organized by Department of Food Science and Technology, University of Kashmir, July 25-26.
6. Sumayah Hassan, **Rabia Hamid*** et al. (2018) “Evaluation of inhibitory activity of *Dipsacus inermis* extract on production of LPS-stimulated pro-inflammatory mediators in J774 murine Macrophages” 13th JK Science Congress, University of Kashmir in collaboration with the JK State Science, Technology and Innovation Council, April 2-4.
7. Muzaffar Ahmad, **Rabia Hamid** et al. (2018) “Anti-oxidative prospects and liver protective action of *Taxus wallichiana* extracts” 13th JK Science Congress, University of Kashmir in collaboration with the JK State Science, Technology and Innovation Council, April 2-4.
8. **Rabia Hamid*** et al. (2018) “Isolation of anticancer molecules from a medicinal plant-EDM8042” Proceedings of "International Symposium on Cancer Prevention and Treatment" School of Life Sciences, Jawaharlal Nehru University, New Delhi, Feb 9-10, organized by **CRCA, New Delhi; UCD, USA; UOHSC, USA and UPCI, USA.**
9. **Rabia Hamid*** et al. (2017) “A Therapeutic Approach to find a Bioactive Fraction from *Elsholtzia densa* against Inflammatory Disorders” Proceedings of *International Conference* on Recent Research in Biomedical Engineering, Cancer Biology, Stem Cells, Bioinformatics and Applied Biotechnology (BECBAB-2017) Jawaharlal Nehru University, New Delhi *organized by “Krishi Sanskriti Publications”*, August 26.
10. **Rabia Hamid*** et al. (2017) “*In vitro* antioxidant potential of *Taxus wallichiana*” Proceedings of the International Conferences Physical and life sciences (ICPLS-17), New Delhi, organized by Institute for Technical and Academic Research, New Delhi India, July 30.
11. **Rabia Hamid*** et al. (2017) “Antimicrobial Activity of *Euphorbia Helioscopia* Leaf Lectin against Waterborne Disease Causing Bacteria”. Proceedings of Two day International Seminar on Water Pollution and Health, organized by Department of Civil Engg and Technology, Jamia Millia Islamia, New Delhi, July 27-28.
12. **Rabia Hamid*** et al. (2015) “*Atrapa acuminata* provides protection against Carbon Tetrachloride Induced Liver Injury in Rats”. Proceedings of the 11th JK Science Congress, 2015 organized by University of Kashmir, Oct 12-14.
13. **Rabia Hamid*** et al. (2015) “Evaluation of in vitro Antioxidant Potential of *Thymus linearis*” Proceedings of the 11th JK Science Congress, 2015 organized by University of Kashmir, Oct 12-14.

14. **Three day International Indo-US Conference on ‘Realizing the Potential of Rare Disorders in India’ (2015)** organized by Indo-US Science and Technology Forum & Center of Medical Genetics, Sir Ganga Ram Hospital, New Delhi, Sept 7-9.
15. **Rabia Hamid*** (2015) **XXVII Annual Conference of the Academy and National Seminar on “Science-led Development for Environmental Sustainability”** Indian National Science Academy (INSA) New Delhi (21-22 February).
16. **Rabia Hamid*** et al. (2015) “A therapeutic approach to find a natural bioactive anti-inflammatory fraction from *Atropa acuminata*” National Symposium on Biodiversity, Biology and Bioprospecting, organized by Department of Botany, University of Kashmir, April 1-2.
17. **Rabia Hamid*** et al. (2015) “A therapeutic approach to find a natural bio-active anti-oxidant fraction from plants against oxidative stress” International Symposium on Current Advances in Radiobiology, Stem Cells and Cancer Research, School of Life Sciences, Jawaharlal Nehru University, New Delhi, February 19-21.
18. **Rabia Hamid*** et al. (2014) Apoptotic activity of a Lectin from *Lotus corniculatus* towards Human Cancer Cell Lines. Proceedings of Cellular & Molecular Mechanisms of Disease Processes organized by Department of Biotechnology, University of Kashmir, Srinagar, April 13-16.
19. **Rabia Hamid*** et al. (2013) A Lectin Purified from Seeds of Bird’s Foot Trefoil with Anticancer potential towards Human Cancer Cell Lines. Proceedings of the National Conference on **‘Recent Trends in Structural Biology’** organized by Centre for Interdisciplinary Research in Basic Sciences, Jamia Millia Islamia, New Delhi, Dec 16-18.
20. **Rabia Hamid*** et al. (2013) *In-Vitro* Antioxidant Potential of Leaf Extracts of *Atropa acuminata*. Proceedings of the National Seminar on **‘Climate Change, Environment and Sustainable Development’** organized by National Environmental Science Academy and Department of Botany, Jamia Hamdard University, New Delhi. Dec 9-10.
21. **Rabia Hamid***. (2013) Evaluation of molecular mechanisms of picrosides from *Picrorhiza kurroa* for anticancer action. DBT Taskforce Meeting, INSA New Delhi, October 25.
22. **Rabia Hamid*** et al. Anti-inflammatory/Antioxidant/Anticancer potential of medicinal plants from Kashmir. Three day 9th **JK Science Congress 2013 Regional Science Congress (ISCA)**, organised by University of Kashmir [sponsored by J&K SC S&T, DST (GOI) & ISCA], October 1-3, 2013.
23. **Rabia Hamid***. Biological Informatics in Scientific Data Management. (2013) Proceedings of **The 12th International Conference on Global Contemporary Issues, Innovations & Future Challenges in Business, IT & Management**, Jaipur, Jan 5-6.
24. **Rabia Hamid***, et al. *In Vitro* Antioxidant Activity and Phytochemical Screening of Seed Extracts of *Crotalaria pallida*. Proceedings of the two - day National Conference on **“Environment and Biodiversity of India”** (2012) organized by North East Centre for Environmental Education and Research [NECEER] at the University of Delhi, New Delhi from Dec 29-30.
25. **Rabia Hamid*** et al. Effect of *Lotus corniculatus* lectin on migration in Leukemia Cancer Cells (2012). Proceedings of the one day **1st JK Womens’ Science Congress**, on **“Women in Science: An Initiative for Women Scientists”**, at S.P College Srinagar, December 11-13.
26. **Rabia Hamid*** et al. (2012) Evaluation of *In Vitro* Antibacterial and Antioxidant Activities of *Eremurus himalaicus* Root Extracts. Proceedings of the International Conference on Environment and Human Health organized by National Environmental Science Academy at INSA New Delhi, Nov 28-29.
27. **Rabia Hamid***(2012) Exploration of anticancer potential of lectin isolated from *Lotus corniculatus*. Proceedings of the 8th JK Science Congress (2012) organised by the University of Kashmir in collaboration with Council for Science & Technology, Govt. of J&K, and DST, GOI at University of Kashmir, Sept.17-19.
28. **Rabia Hamid***Prevalence of promoter hypermethylation of *mgmt* gene in colorectal cancer patients of Kashmir Valley. Proceedings of the 8thJK Science Congress (2012) organised by the University of Kashmir in collaboration with Council for Science & Technology, Govt. of J&K, and DST, GOI at University of Kashmir, Sept.17-19.
29. **Rabia Hamid**. (2012) Prognostic and diagnostic role of Hematological parameters in gastric cancer risk. Proceedings of the 8th JK Science Congress (2012) organised by the University of Kashmir in collaboration with Council for Science & Technology, Govt. of J&K, and DST, GOI at University of Kashmir, Sept.17-19.

30. **Rabia Hamid**, et al. (2012). Comparison of hematological parameters in untreated and treated Subclinical hypothyroidism and Primary hypothyroidism Patients. Proceedings of the 8th JK Science Congress (2012) organised by the University of Kashmir in collaboration with Council for Science & Technology, Govt. of J&K, and DST, GOI at University of Kashmir, Sept.17-19.
31. **Rabia Hamid**. et al. (2012). Rise of platelet parameters in subclinical hypothyroid patients in Kashmir valley. Proceedings of the 8th JK Science Congress (2012) organised by the University of Kashmir in collaboration with Council for Science & Technology, Govt. of J&K, and DST, GOI at University of Kashmir, Sept.17-19.
32. **Rabia Hamid** et al. (2012). CPG methylation in exon 1 of *tcf4* gene as an early biomarker of gastric cancer. Proceedings of the 8th JK Science Congress (2012) organised by the University of Kashmir in collaboration with Council for Science & Technology, Govt. of J&K, and DST, GOI at University of Kashmir, Sept.17-19.
33. **Rabia Hamid***(2012) pH Dependence of a Lectin Purified from *Euphorbia helioscopia* and its Potential Antimicrobial Activity. Proceedings of the One day Seminar on Avances in Biosciences organized by the faculty of Biosciences Amar Singh College (Sgr) at Srinagar, June 12.
34. **Rabia Hamid*** (2012) Plant Products as Novel Antiviral agents: At the Crossroads of Drug Discovery Informatics. Proceedings of the 3rd International Conference on Current Trends in Forensic Sciences, Forensic Medicine and Toxicology, organized by Indian Association of Medico-Legal Experts, New Delhi at Jaipur, Feb 3-5.
35. **Rabia Hamid***. (2012) *In vitro* Antibacterial Activity of *Eremurus himalaicus*- An Important and Endemic Medicinal Plant of North-Western Himalaya. Proceedings of the 2nd International Conference on “Challenges in Biotechnology and Food Technology” (ICBF-2012) organized by Department of Chemical Engineering & Centre of Advanced Study in Marine Biology, Annamalai University, Annamalai Nagar, Tamil Nadu, Jan 9-10.
36. **Rabia Hamid*** (2012) Biotechnology in Global Economy. Proceedings of the “11th International Conference on “Frontier Global Issues and Challenges in the New Millennium on the Emerging Economy, Accounting, Finance, Information Technology, Business and Management” (2012) organized by Research Development Association and Research Development Foundation, JLN Marg, Jaipur, Jan 5-6.
37. **R. Hamid***. (2011) Phytochemical Screening of *Eremurus himalaicus*-An Endemic Medicinal Plant of North - Western Himalaya. Proceedings of the National Conference on Environment and Biodiversity of India organized by the North East Centre for Environmental Education and Research [NECEER], Imphal, Manipur in Jamia Millia Islamia, New Delhi. Dec. 30-31.
38. **Rabia Hamid*** (2011) Antimicrobial potentiality of *Elsholtzia densa* crude extract against some pathogenic bacterial and fungal strains. Proceedings of Two-day National Conference on “Recent Trends in Biosciences” held at Deptt. of Biochemistry and Biotechnology, S.P. College, Srinagar October 3-4.
39. **Rabia Hamid***. (2011) Purification and characterization of a lectin from *Euphorbia helioscopia*. Proceedings of Two-day National Conference on “Recent Trends in Biosciences” held at Department of Biochemistry and Biotechnology, S.P. College, October 3-4.
40. **Rabia Hamid**, et al. (2011). Assessment of antioxidant potential of aqueous extract of *Podophyllum hexandrum* using *in vitro* models. Proceedings of Two-day National Conference on “Recent Trends in Biosciences” Department of Biochemistry and Biotechnology, S.P. College, Srinagar, October 3-4.
41. **Rabia Hamid***. (2011). ‘Role of Nutrition in Ageing’. 4-week Refresher Course in Women Studies (Interdisciplinary), organized by Academic Staff College, University of Kashmir, Jan 10- Feb 2.
42. **Rabia, Hamid*** Isolation and partial characterization of a lectin from *Prunella vulgaris* and evaluation of its potential antimicrobial activity (2010). Proceedings of 6th Science Congress held at University of Kashmir, from Dec 2-4.
43. **Rabia, H*** Purification and evaluation of antimicrobial activity of a lectin from *Indigofera heterantha*. (2010). Proceedings of 6th JK Science Congress held at University of Kashmir, from Dec 2-4.
44. **Rabia Hamid*** (2009) Interactions of Dietary Lectins with Gastric Mucosa: Metabolic Effects and Applications. Proceedings of National Conference on Marine Biology held in Goa University, Goa Feb 5-7.
45. **Rabia Hamid** * (2008) Isolation and partial characterization of a lectin from the seeds of pea plant. Proceedings of the 28th Annual Session of the Academy of Environmental Biology and National

Symposium on Environmental Stress and Bioresource Management held at Jamia Hamdard, New Delhi, Nov 20-22.

46. **Hamid, R*.**, et al. 2008. Isolation, Purification and Partial Characterization of a Lectin from *Glycine Max*. Proceedings of the 4th JK Science Congress, University of Kashmir, Oct. 12-14.
47. **Rabia Hamid*** (2006). The effect of pH changes and thermal treatment on the hemagglutinating activity of a lectin from san hemp (*Crotalaria pallida*). Proceedings of the 75th Annual Meeting of the Society of Biological Chemists (India). Held at Jawaharlal Nehru University (JNU), New Delhi from Dec 8-11.
48. **Hamid, R*.**, et al. (2006). Isolation and partial characterization of wax bean lectin. Proceedings of the 2nd JK Science Congress (India), Srinagar at the University of Kashmir from July 25-27.
49. **Hamid, R*.**, et al., (2006) Isolation and partial characterization of lectins from the seeds of *Pisum sativum* var. *Arkel*. Proceedings of the 2nd J&K Science Congress (India). Held in Srinagar at the University of Kashmir from July 25-27.
50. **Hamid, R*.**, et al.(2004). Conformational Changes Induced by Chemical Modification of *Crotalaria pallida* Lectin. Proceedings of the 73rd Annual Meeting of the Society of Biological Chemists (India). Held at G.B. Pant University of Agriculture and Technology, Pantnagar from Nov. 21-24.
51. **Rabia Hamid***, Akbar Masood and M. A. Baig (2003). Effect of Metal Ions on the Carbohydrate Binding Activity of *Crotalaria pallida* Lectin. Proceedings of the International Conference of the 10th FAOBMB Congress. Held in Bangalore, from Dec.7-9.
52. **Rabia Hamid*** and Akbar Masood. Distribution of a lectin in the vegetative parts of *Crotalaria pallida*. (2000). Proceedings of National Symposium on Biochemistry – Environment and Agriculture. Held at Ludhiana from Feb. 17-18.
53. **R. Hamid***, A. Masood and M. A. Baig (1996). Molecular Properties and Erythroagglutinating Activities of a Lectin from *Crotalaria pallida* Seeds. Proceedings of the 65th Annual Meeting of the Society of Biological Chemists (India). Held from Nov. 20-23.
54. **R. Hamid*** et al. (1995). Isolation and purification of a lectin from *Crotalaria pallida* Seeds. Proceedings of the 64th Annual Meeting of the Society of Biological Chemists (India). Held at Lucknow from Oct.6-8.
55. **R. Hamid**, et al. (1995) Physiochemical and Biological Characterization of Ovomucoid from duck Egg white. Proceedings of the 64th Annual Meeting of the Society of Biological Chemists (India). Held at Lucknow from Oct. 6-8.

***Presenting/Corresponding author**

CHAIRMANSHIPS AT NATIONAL OR INTERNATIONAL CONFERENCE/SEMINAR/WORKSHOP/SYMPOSIUM, ETC

1. Session Coordinator, Session-8A (Arthur Kornberg Session) Biochemical Innovations: Translating Cellular Cues into Novel Therapeutics 7th Annual Conference of Indian Academy of Biomedical Sciences (2018) Organized by Department of Clinical Biochemistry, SKIMS, Srinagar, April 20-22.
2. Chairperson Technical Session, Biochemical Innovations: Translating Cellular Cues into Novel Therapeutics 7th Annual Conference of Indian Academy of Biomedical Sciences (2018) Organized by Department of Clinical Biochemistry, SKIMS, Srinagar, April 20-22.
3. Technical Evaluator Poster Session, Biochemical Innovations: Translating Cellular Cues into Novel Therapeutics 7th Annual Conference of Indian Academy of Biomedical Sciences (2018) Organized by Department of Clinical Biochemistry, SKIMS, Srinagar, April 20-22.
4. Session Coordinator, Technical Session-I on ‘Nanotechnology’ in 13th JK Science Congress (2018) organized by the University of Kashmir April 2-4.
5. Chairperson, Technical Session-II on ‘Biochemistry’ in 13th JK Science Congress (2018) organized by the University of Kashmir April 2-4.
6. Chairperson, Technical Session-II on ‘New Biology’ (Biochemistry) in 11th JK Science Congress (2015) organized by the University of Kashmir Oct 12-14.
7. Chairperson, Technical Session on ‘Drug development and pharmaceutical industry experience’ in Indo-US Conference on ‘Realizing the Potential of Rare Disorders in India’ (2015) organized by Indo-US Science and Technology Forum & Center of Medical Genetics, Sir Ganga Ram Hospital, New Delhi, Sept 7-9.

8. Chairperson, Technical Session on '*Community Health and Environment*' at the "International conference on Environment and Human Health", 2012 organized by The National Academy of Environmental Sciences at INSA New Delhi, Nov 28-29.
9. Chairperson, Technical Session on '*Cellular Sciences and Technology*' (Biotechnology and Molecular Biology) at the 8th JK Science Congress (2012) organised by the University of Kashmir in collaboration with Council for Science & Technology, Govt. of J&K, and DST, GOI at University of Kashmir, Sept.17-19.
10. Chairperson, Technical Session on '*Medical Law*' at the "3rd International Conference on Current Trends in Forensic Sciences, Forensic Medicine and Toxicology" (2012), organized by Indian Association of Medico-Legal Experts, New Delhi at Jaipur, Feb 3-5.
11. Chairperson, Technical Session III (*Conservation of Biodiversity*) at the National Conference on Environment and Biodiversity of India 2011 organized by North East Centre for Environmental Education and Research [NECEER], Imphal, Manipur at Jamia Millia Islamia, New Delhi, Dec 30-31.

SYMPOSIA/CONFERENCES/COURSES/WORKSHOPS/EVENTS ATTENDED

- **Two day National Conference on Recent Advances in Understanding the Role of Phytochemicals in Human Health (2018)** organized by Department of Food Sci. and Technology, University of Kashmir, July 25-26.
- **Three day 7th Annual Conference of Indian Academy of Biomedical Sciences (2018)** Biochemical Innovations: Translating Cellular Cues into Novel Therapeutics Organized by Department of Clinical Biochemistry, SKIMS, Srinagar, April 20-22.
- **Three day 13th JK Science Congress (2018)** organized by the University of Kashmir April 2-4.
- **Two day International Symposium on Cancer Prevention and Treatment (2018)** School of Life Sciences, Jawaharlal Nehru University, New Delhi, Feb 9-10, organized by **CRCA, New Delhi; UCD, USA; UOHSC, USA and UPCI, USA.**
- **One day International Conference on Recent Research in Biomedical Engineering, Cancer Biology, Stem Cells, Bioinformatics and Applied Biotechnology (BECBAB-2017)** Jawaharlal Nehru University, New Delhi *organized by "Krishi Sanskriti Publications"*, August 26.
- **One day International Conference on Physical and Life Sciences (ICPLS-17), New Delhi**, organized by Institute for Technical and Academic Research, India at New Delhi, July 30.
- **Two day International Seminar on Water Pollution and Health**, organized by Department of Civil Engg and Technology, Jamia Millia Islamia, New Delhi, July 27-28.
- **Graduation Day Ceremony, University of Pennsylvania, PA Philadelphia, USA** as parent invitee, May13-15, 2017.
- **Three day 11th JK Science Congress, 2015 on 'Scientific, Social and Economic Dimensions of Climate Change'** organized by University of Kashmir, Oct 12-14.
- **Three day International Indo-US Conference on 'Realizing the Potential of Rare Disorders in India' (2015)** organized by Indo-US Science and Technology Forum & Center of Medical Genetics, Sir Ganga Ram Hospital, New Delhi, Sept 7-9.
- **Two day National Symposium on 'Biodiversity, Biology and Bioprospecting', 2015** organized by Department of Botany, University of Kashmir, April 1-2.
- **Three day International Symposium on Current Advances in Radiobiology, Stem Cells and Cancer Research, 2015** organized by School of Life Sciences, Jawaharlal Nehru University, New Delhi, February 19-21.
- **One day seminar on 'World Environment Day'**, 2014 organized by *Department of Environmental Sciences*, June 5.
- **Four day International Conference on Cellular & Molecular Mechanisms of Disease Processes, 2014** organized by Department of Biotechnology, University of Kashmir, Srinagar, April 13-16.
- **Three day National Conference on 'Recent Trends in Structural Biology', 2013** organized by Centre for Interdisciplinary Research In Basic Sciences, Jamia Millia Islamia, New Delhi, Dec 16-18.
- **Two day National Seminar on 'Climate Change, Environment and Sustainable Development', 2013** organized by National Environmental Science Academy and Department of Botany, Jamia Hamdard University, New Delhi. Dec 9-10.
- **Project presentation** at DBT Bioinformatics Taskforce Meeting, INSA New Delhi, October 25, 2013.

- **Three day 9th JK Science Congress 2013 Regional Science Congress (ISCA)** from 1st to 3rd October 2013 organised by University of Kashmir [sponsored by J&K SC S&T, DST (GOI) & ISCA]
- **One day International Workshop on “Acu-pressure Way of Health”** 2013 organized by the Department of Social Work and Department of Biochemistry, University of Kashmir, April 4.
- **One week Research Training Workshop on “Drug Development and Infectious Diseases”** from Jan 14, 2013 organized by School of Life Sciences, JNU New Delhi.
- **12th International Conference on Global Contemporary Issues, Innovations & Future Challenges in Business, IT & Management** Jan 5-6, 2013 focusing on “Biological Informatics in Scientific Data Management”.
- **Two day National Conference** from Dec 29-30, 2012 on “*Environment and Biodiversity of India*” (2012) organized by North East Centre for Environmental Education and Research at the University of Delhi, New Delhi.
- **One day 1st JK Womens’ Science Congress** from 11-13 December, 2012 on “*Women in Science: An Initiative for Women Scientists*” organized by Department of Environmental Science and Water Management and Department of Biotechnology, SP College in collaboration with J&K State Council for Science and at S.P College, Srinagar.
- **Two day International Conference on Environment and Human Health** (2012), organized by National Environmental Sci. Academy at INSA New Delhi, Nov 28-29.
- **8th JK Science Congress** (2012) Organised by the University of Kashmir in collaboration with Council for Science & Technology, Govt. of J&K, and DST, GOI at University of Kashmir, Sept.17-19.
- **One day Symposium on ‘Virtual Workshop on Scientific Writing and Publishing’** (2012), organized by American Society of Microbiologists at Deptt. of Biotechnology, University of Kashmir, July 23.
- **One day Seminar in Advances in Biosciences** (2012), organized by Faculty of Biosciences, Amar Singh College (Sgr) at Srinagar, June 12.
- **3rd International Conference on Current Trends in Forensic Sciences, Forensic Medicine and Toxicology**, (2012) organized by Indian Association of Medico-Legal Experts, New Delhi at Jaipur, Feb 3-5.
- **2nd International Conference on “Challenges in Biotechnology and Food Technology” (ICBF-2012)** organized by Department of Chemical Engineering & Centre of Advanced Study in Marine Biology, Annamalai University, Annamalai Nagar, Tamil Nadu, 9-10 January.
- **11th International Conference on “Frontier Global Issues and Challenges in the New Millennium on the Emerging Economy, Accounting, Finance, Information Technology, Business and Management”** (2012) organized by Research Development Association and Research Development Foundation, JLN Marg, Jaipur, Jan 5-6.
- **National Conference on Environment and Biodiversity of India (2011)** organized by North East Centre for Environmental Education and Research [NECEER], Imphal, at Jamia Millia Islamia, New Delhi, Dec 30-31.
- **Two-day National workshop on Nanotechnology (2011)** organized by NIT Srinagar in collaboration with the ASC, University of Kashmir, Dec 9-10.
- **Two-day National Conference on “Recent Trends in Biosciences” (2011)** organized by Department of Biochemistry and Biotechnology, S.P. College, Srinagar and Department of Biochemistry, University of Kashmir, October 3-4.
- **Three day 1st JK Agricultural Science Congress (2011)** organized by SKUAST-K in collaboration with the J&K State Council for Science and Technology, DST, GOI and National Horticulture Board, GOI, Sept. 8-10.
- **Two day workshop on Right to Information (2011)** organized by Academic Staff College, University of Kashmir, Jun 27-28.
- **Refresher Course in Women Studies (Interdisciplinary) (2011)** ASC, University of Kashmir, Srinagar, Jan 10-Feb 2.
- **One day National Symposium on “Esophageal Cancer in Kashmir. (2011)** Department of Biochemistry, University of Kashmir, Srinagar. (Feb 4).

- **Sixth JK Science Congress (2010).** University of Kashmir, Srinagar, Dec 2-4.
- **Three-day workshop on “Modern Biology and Development of Research Programme” (2009).** School of Life Sciences, Jawaharlal Nehru University, New Delhi, Dec 14-16.
- **Two-day workshop on Immunological Techniques, 2009.** Department of Biochemistry, Government Medical College, Srinagar Nov 17-18.
- **14th Refresher Course in Life Sciences (2009).** Academic Staff College, JNU, New Delhi. Held from Jan. 5-30.
- **Environmental Stress and Bioresource Management. (2008).** National Symposium and 28th Annual session organized by the Academy of Environmental Biology in Jamia Hamdard, New Delhi. Held from Nov. 20-22.
- **Fourth J&K Science Congress (2008).** University of Kashmir in collaboration with DST, J&K & DST GOI. Held at the University of Kashmir, Srinagar from Oct. 12-14.
- **Genomic Instability and Cancer (2007).** An International Symposium held by the Department of Biotechnology, University of Kashmir, and SKIMS Srinagar in collaboration with the Ohio State University, USA. Held at Srinagar from July 22-26.
- **“Stress management and role of life skills for succeeding in life” (2007).** One day workshop organized by Women Studies Centre, University of Kashmir, Sgr, Mar 26.
- **Second J&K Science Congress (2006).** University of Kashmir in collaboration with DST, J&K & DST GOI. Held at the University of Kashmir, Srinagar from July 25-27.
- **10th Refresher Course in Life Sciences (2004-2005).** Academic Staff College, JNU, New Delhi. Held from Dec.27 (2004) -Jan.20 (2005).
- **73rd Annual Meeting Society of Biological Chemists, India, (2004).** G.B. Pant University of Agriculture & Technology, Pantnagar from Nov 21-24.
- **10th International Congress of Federation of Asian and Oceanic Biochemists and Molecular Biologists, (2003).** Held in Indian Institute of Sciences, Bangalore from Dec 7-11.
- **General Orientation Course (2002).** Academic Staff College, University of Kashmir, Srinagar. Held from Oct. 21- Nov. 16.
- **PC Familiarization and Bioinformatics” (2000).** Bioinformatics Centre, University of Kashmir, Srinagar. Held from Sep. 4-7.
- **“An Update on Clinical Immunology” (1999).** Immunology Department, S.K. Institute of Medical Sciences, Srinagar. Held from Aug. 24-25.