

## **Rabia Hamid, PhD**

**Professor & Head**  
**Department of Nanotechnology**  
**University of Kashmir**  
**Hazratbal, Srinagar Jammu & Kashmir 190006**  
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**DoB:** 27-03-1966

**Education** **University of Kashmir**  
Ph.D., Department of Biochemistry, 2007  
*Supervisor: Prof. Akbar Masood*

**University of Kashmir**  
M.Phil, Department of Biochemistry, 1994  
*Supervisor: Prof. Masroor Alam Baig*

**University of Kashmir**  
M.Sc., Department of Biochemistry, 1989

**University of Kashmir**  
B.Sc., Biological Sciences, 1987

**Certifications** University of Twente, Netherlands, 2020 (Online)  
*Nanotechnology for Health: Innovative Designs for Medical Diagnosis*

**Thesis/  
Dissertation** “Biochemical Studies on Plant Lectins”, PhD (2007)  
*Chemical modification and biochemical characterization of a plant lectin*

“Studies on Plant Lectins”, M.Phil (1994)  
*Isolation, purification and partial characterization of a plant lectin*

**Specialization** Medicinal Plants Research, Free Radical Biology,  
Nanomedicine, Protein Chemistry

**Research** *Ongoing*  
**WISE-KIRAN Division, DST in partnership with British Council**  
Gender Advancement for Transforming Institutions (GATI-Pilot Project) Women in STEMM  
Principal Investigator and Nodal Officer, UoK

**CSIR, India**  
Supervisor-Mentor (2017-till date)  
*Project 1: Isolation of potential PKC inhibitors from *Allium humile* for their therapeutic role in atherosclerosis, 2020-till date*

*Project 2: Blocking colon carcinogenesis with lead molecule/s of*

*Alcea rosea* active seed extract, 2018-till date

*Project 3: Evaluation of antidiabetic activity of Artemisia moorcroftiana* (wall.exDC.): Isolation of bioactive compounds and their effect on diabetic markers, 2017-till date

*Completed*

**Department of Biotechnology (DBT), India**

Principal Investigator and RGO Scientist, BioCare 2014-2017

*Project: In vivo* study of antioxidant and anticancer activities of *Elsholtzia densa*

**CSIR, India**

Supervisor-Mentor (2016-2021)

*Project: Implications of alpha-1 Syntrophin and p66Shc interaction on cytoskeletal dynamics in Breast Carcinoma Cells*

**University Grants Commission (UGC), India**

Supervisor-Mentor 2009-2013

*Project: Purification of Lectins and evaluation of their medicinal properties*

*Submitted*

**ICMR**

Principal Investigator, 2023

Isolation and characterization of Naphthoquinones from medicinal plants of high-altitude region of Kashmir and Ladakh possessing cancer stem cell marker inhibitory effect

**CSIR-ASPIRE**

Principal Investigator, 2023

Evaluation of inhibitory effect of *Rheum emodi* rhizome extract on stem-cell driven colon carcinogenesis

**SERB-DST**

Principal Investigator, 2023

Evaluation of the therapeutic impact of *Atropa acuminata* active extract/s and nanoformulation/s on progression of diabetes in animal models

**JK Science Technology & Innovation Council DST**

Principal Investigator, 2022

Therapeutic analysis and evaluation of phytochemical-based nanoformulations by targeting VEGF and TGF beta pathway in diabetic foot ulcers

## **Fellowships**

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

## Major contributions

### I. Books/Chapters

*Nanotechnology in Healthcare Management (2022)* In: *Diverse Applications of Nanotechnology in the Biological Sciences: An Essential Tool in Agri-Business and Health Care Systems*. (Hakeem, K.R., Kamli, M., Sabir, J.S.M., & Alharby, H.F. (Eds.) (1<sup>st</sup> ed.). Apple Academic Press Taylor & Francis Group

Nanotherapeutic technologies of multifunctionalities having tremendous potential to fill the gaps that exist in the existing therapeutic domain

*Frontiers in Clinical Drug Research - Anti-Cancer Agents Research (2021)*

(Bentham Science Publishers, E book)

Targeting Cancer Stem Cells: Implications in health and disease

*Textbook of Free Radicals: Concepts in Biology and Medicine (2017)*

Biology behind the formation of free radicals, their scavenging in the body and their role in the progression of several chronic diseases

*Lectins: From Recognition Molecules to Anti-cancer Agents (2017)*

Chapter 4 In: A. Mahdi, M. Abid, M.M.A Ali Khan and R.K. Maheshwari (Ed.), *Phytochemistry and Pharmacology of Medicinal Herbs*  
Lectin-sugar binding and applications as anticancer therapeutic tool

*A Handbook of Lectins - Structure and Biomedical Applications (2012)*

How lectins as sugar binding proteins specifically recognize cell surface sugars and have potential of being used as antimicrobials and anticancer agents

### II. Research

#### Papers

1. Inter-relationship of Pro- and Anti- inflammatory Biomarkers with the development of Type 2 Diabetes Mellitus (2022) *Heliyon* (Elsevier)
2. Actin modulation regulates the Alpha-1-Syntrophin/p66Shc mediated redox signaling contributing to the RhoA GTPase protein activation in breast cancer cells (2022) *Frontiers in Oncology: Cancer Molecular Targets and Therapeutics* (Frontiers Media S.A)
3. Elucidation of early markers in Insulin resistance Diabetes patients of Kashmir Valley. (2022) *Metabolism* (Elsevier)
4. The modulation of PI3K/Akt pathway by 3 $\beta$  hydroxylup-12- en-28-oic acid isolated from *Thymus linearis* induces cell death in HCT-116 cells. (2022) *Chemical Biology & Drug Design* (John Wiley & Sons)
5. COVID-19 Pandemic: Current Scenario, Challenges and Future Perspectives, 2020. *Coronavirues* (Bentham Science Publishers)
6. Nanomedicines: Nano based Drug Delivery Systems Challenges and Opportunities, 2020. In: *Alternative Medicine* IntechOpen Limited,

Publishers, UK.

7. Jasplakinolide Attenuates Cell Migration by Impeding Alpha-1-syntrophin Protein Phosphorylation in Breast Cancer Cells. (2021) *The Protein Journal* (Springer)
8. Hepatoprotective effects of *Meconopsis aculeata* extract against CCl<sub>4</sub> induced oxidative damage in rats, 2020. *Advances in Traditional Medicine* (Springer)
9. Recent advances in formulating electrospun nanofiber membranes: Delivering active phyto-constituents, 2020. *Journal of Drug Delivery Science and Technology* (Elsevier)
10. Genotoxic effect of two commonly used food dyes metanil yellow and carmoisine using *Allium cepa* L. as indicator, 2020. *Toxicology Reports* (Elsevier)
11. *Dipsacus inermis* Wall. modulates inflammation by inhibiting NF- $\kappa$ B pathway: An *in vitro* and *in vivo* study, 2020. *Journal of Ethnopharmacology* (Elsevier)
12. Role of inflammatory mediators (TNF- $\alpha$ , IL-6, CRP), biochemical and hematological parameters in type 2 diabetes mellitus patients of Kashmir, India. *Med J Islam Repub Iran*.
13. Interplay of antioxidants in Alzheimer's disease, 2019. *Journal of Translational Science* (OATEXT)
14. *Artemisia amygdalina* Upregulates Nrf2 and Protects Neurons Against Oxidative Stress in Alzheimer Disease, 2019. *Cellular and Molecular Neurobiology* (Springer Nature)
15. Modern Computational Strategies for Designing Drugs to Curb Human Diseases: A Prospect, 2019. *Current Topics in Medicinal Chemistry* (Bentham Science Publishers)
16. Recent Trends in the Fabrication of Starch Nanofibers: Electro- spinning and Non-electrospinning Routes and Their Applications in Biotechnology, 2018. *Applied Biochemistry and Biotechnology* (Springer)
17. Hepatoprotective Potential of *Elsholtzia densa* against acute and chronic models of liver damage in wistar rats, 2018. *Drug Research* (Thieme Medical Publishing Group)
18. Evaluation of Antioxidant and Immunomodulatory potential of methanolic extract of *Juniperus squamata*, 2018. *Free Radicals and Antioxidants* (SciBiolMed.Org and Phcog.Net)
19. Polymorphism of the XRCC3 gene and risk of gastric cancer in Kashmiri population: a case control study, 2015. *European Journal of Cancer Prevention* (Lippincott Williams and Wilkins)
20. Mechanistic insights into mode of action of potent natural antagonists of BACE-1 for checking Alzheimer's plaque pathology, 2014. *Biochemical and Biophysical Research Communications*. (Elsevier)
21. Development of novel dual inhibitors against Alzheimer's using fragment-based QSAR and molecular docking approaches, 2014. *Biomed Research*

*International: Integrative Genomics and Computational Systems Medicine* (Hindawi)

22. Phytochemical Screening, Physicochemical Properties Acute Toxicity Testing and Screening of Hypoglycaemic Activity of Extracts of *Eremurus Himalaicus* Baker in Normoglycaemic Wistar Strain Albino Rats, 2014. *Biomed Research International: Therapeutic Potential of Natural Pharmacological Agents in the Treatment of Human Diseases* (Hindawi)
23. In vitro antioxidant and cytotoxic activities of *Arnebia benthamii* (Wallex.G.Don)-A critically endangered medicinal plant of Kashmir valley, 2014. *Oxidative Medicine and Cellular Longevity* (Hindawi)
24. Antiproliferative activity of *Lotus corniculatus lectin* towards Human tumor cell lines, 2013. *Phytomedicine* (Elsevier)
25. Dietary Lectins as disease causing toxicants, 2009. *Pakistan Journal of Nutrition* (ASNI)

### III. New Programmes Launched

**Introduction of Master's (2018) and PhD (2021) programmes in Nanotechnology**, a multidisciplinary subject, in the University, as **Founder-Coordinator** of the Department. This has tremendous potential for inter- and intra- institutional academic and research linkages with allied disciplines of basic and applied domains of the subject. Department has been able to generate an extramural grant to the tune of **3.25 Cr** in a span of 6 years. The Master's programme offers a **Research based Internship course** as full final semester, giving the Master's students an opportunity to work in reputed labs within the span of this 2-year degree course. The Research programme offers specialization in following thrust areas:

- Nanomaterial Synthesis and Thin-film Deposition
- Nanofiber Synthesis using Electrospinning Method
- Nanotherapeutics & Drug Delivery
- Tissue Regeneration and Biomedical Engineering
- Nanoformulation of Plant Bioactives for Disease Therapeutics
- Cancer Biology
- Nanomaterial Characterization and Properties

#### **Introduction of Undergraduate Programme in Nanotechnology**

-Approved in University Academic Council (Feb 2023)

### IV. Role in Institutional Advancement and Policy making

- i. **Nodal officer, Gender Advancement in Transforming Institutions (GATI):** As Nodal officer, GATI, successfully submitted the Expression of Interest on behalf of the University of Kashmir in the year 2021 in which the University was selected as one of the 30 premier institutions of the country (including IITs, AIIMS, IISc-B, BITS Pillani, BHU, JMI, IARIs, IISERs, DRDOs) to participate in the prestigious GATI-Pilot Programme sponsored by DST, GoI in partnership with the British Council. The programme works for providing conducive academic and research

environment for Women in STEMM to enable their participation with full potential for the growth of academic and research institutions of the country drawing inspiration from the Athena SWAN of Higher Education, United Kingdom. Under the mentorship of UK Universities, the programme has been successfully running in the University since August 2021, and entails policy interventions at leadership levels to achieve its short term and long term objectives. Various Action Plans have been approved and are in pipeline for implementation in the University.

- ii. Member, Convener, GATI Self Assessment Team (GSAT):** As member and convener, GSAT I have been actively involved in organizing GSAT meetings and subcommittee sessions for implementing GATI at University of Kashmir and its satellite campuses. GSAT is a high level pivotal body reflecting and ideating on gender gaps and lacunae at various levels, and suggesting and devising policy framework for meeting GATI objectives. GSAT comprises of top academicians (HVC, Deans, Directors, HoDs, senior faculty) as well as members from research scholars and student community.
- iii. Member Academic Council:** As Head of the Department have been a member of Academic Council for last 6 years and involved in major policy decisions related to academics and research in the University.
- iv. Member, Board of Research Studies:** As Head of the Department have been a member of BORS for last 6 years and involved in major policy decisions related to conduct of research in the University.

## Teaching

### ***Department of Nanotechnology, University of Kashmir***

Total number of years: 6.25 (Feb 2017-Present)

Professor & Head (Jan 2019-Present)

Associate Professor & Coordinator (Feb 2017-Jan 2019)

#### ***Masters***

MSNT-103-CR – Cell, Metabolism & Molecular Biology, 2018-Present

MSNT-104-CR - Elements of Spectroscopy, 2018-Present

MSNT-203-CR- Human Physiology and Disease

MSNT-206-DCE-Laboratory Course-I

MSNT-303-CR- Nanomedicine-I: Therapeutics & Diagnostics

MSNT-304-CR- Seminars and Research Methodology in Nanotechnology

MSNT-305-DCE- Laboratory Course-II

MSNT-401-CR & MSNT-402-CR Research Proposal Writing & Internship Project

#### ***PhD***

(2020-till date)

Research Methodology

Research based Subject Courses (Various) Advances in Biotechnology

### ***Department of Biochemistry, University of Kashmir***

Total number of years: 25 (1995-2020)

Professor (Jan 2019-March 2020)

Associate Professor (Jan 2016-Jan 2019)

Assistant Professor (Sep 2001-Jan 2016)

- Masters**
- BCH-101-CR - Biomolecules, 1995 - 2019
  - BCH-09-CR - Metabolism - I, 1995 - 2019
  - BCH-21-DCE - Metabolism - II, 1995 - 2019
  - BCH-17-CR - Physiology and Clinical Biochemistry, 2003 - 2019
  - BCH-28-DCE - Microbiology, 2001 - 2017
  - BCH-25-CR - Designing and Drafting a Research Project, 2003 - 2019
  - BCH-26-CR - Journal Club, 2001 - 2019
  - BCH-05-DCE - Biochemical Techniques, 1999 - 2019
  - BCH-06-GE - Nutritional Biochemistry, 2014 - 2019
  - BCH-10-CR - Molecular Biology, 1997 - 2003
  - BCH-12-DCE - Enzymology, 2001 - 2005
  - BCH-14-GE - Protein Biochemistry, 2014 - 2016
  - BCH-16-OE - Chronic diseases - Cancer and Diabetes, 2014 - 2019
  - BCH-20-DCE - Biotechnology, 2005 - 2007
  - BCH-22-GE - Metabolic Disorders, 2014 - 2019
  - BCH-30-DCE - Micro Nutrition, 2016 - 2019
  - BCH-31-GE - Biochemistry of Chronic Diseases, 2016 - 2019
- M.Phil/PhD**
- 2008-till date
  - Research Methodology
  - Research based Subject Courses (Various)
  - Advances in Biochemistry

## **Research**

### **Current Research focus: Nanomedicine/Medicinal Plants Research**

Nanomedicine presents new opportunities to improve the safety and efficacy of conventional therapeutics. Nanoparticles increase bioavailability, dissolution rate and increase intracellular uptake and improve *in vivo* performance. Such nanoparticles after being characterized by different techniques and combining encapsulation, release modalities and surface modification to improve therapeutic targeting or bioavailability, are known to improve the efficacy of the formulations several-fold compared with bulk counterparts. The research group works on discovery of new/novel molecules from plants. The work is focused in the areas of free radical biology, cancer biology, cancer pharmacology, diabetes, atherosclerosis, wound healing, inflammatory and microbial diseases. The lab is engaged in the evaluation of anticancer, anti-diabetic, wound healing, anti-atherosclerotic and anti-tubercular nanoformulation-based therapeutics from medicinal plants of Himalayan range/other phyto-compounds. Anti-inflammatory effect of AgNPs, synthesized using plant extracts, against the TNF-induced inflammatory response is also being worked at.

### **In Progress**

- *Alcea rosea*; isolation, characterisation of possible molecule/nanoformulation and its role in inhibition of colorectal cancer
- Evaluation of the therapeutic impact of *Atropa acuminata* active extract/s and nanoformulation/s on progression of diabetes in animal models
- Synthesis, characterization, and evaluation of phyto-compound loaded nanoformulations for wound healing applications
- Blocking stem cell driven colon carcinogenesis with isolated plant derived compounds
- Anti-Diabetic activity of *Artemisia 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

- *In vitro* and *in vivo* study of antioxidant, anti-inflammatory, anti- Alzheimer's, anti-cancer and hypolipidemic activities of medicinal plants
- Anti-inflammatory effect of AgNPs, synthesized using plant extracts, against TNF-alpha, IL-6 and IL-1 beta induced inflammatory response

### **Completed**

- Role of oxidative stress in Breast cancer
- Expression of pro and anti-inflammatory genes in type 2 diabetes and metabolic syndrome
- 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 kurroo*, against H<sub>2</sub>O<sub>2</sub> insult and amyloid beta in N2A cells; Upregulation of antioxidant genes like Nrf-2, heme oxygenase and Keap
- Immunomodulatory activity of *Juniperus squamata*
- 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*
- Antioxidant and anti-inflammatory activities of *Atropa acuminata*, *Taxus walichiana*, *Mecanopsis aculeate* and *Dipsicus inermis*
- Antioxidant and anticancer properties of purified bioactive plant molecules from *Arnebia benthamii* and *Thymus linearis*

### **Research Supervision**

	PhD	MPhil	MSc Research Project Mentorship
Awarded	10	10	15 (MSc., Biochemistry) 2 (MSc., Nanotechnology)
Under Supervision/Mentorship	6	-	2 (MSc., Nanotechnology)

### **Collaborations**

- School of Biotechnology, JNU, New Delhi, for computational studies and evaluation of medicinal properties of purified bioactive plant molecules
- IIIM, Jammu- Evaluation of antimicrobial, antioxidant, antiinflammatory and anticancer activities of *Elsholtzia densa*, *Thymus linearis*, *Mecanopsis aculeate* and *Dipsicus inermis*
- Evaluation of anticancer and antiinflammatory activities of lectins and bioactive molecules from medicinal plants of Kashmir
- IIIM, Srinagar- Bioprospecting of *Thymus linearis* in anticancer drug development



- Govt. Medical College, Srinagar for Hypermethylation studies / gene polymorphisms in colorectal and stomach cancers
- Govt. Medical College, Srinagar for 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
- Department of Chemistry, University of Kashmir for nanoformulation of plant bioactives (*Atropa acuminata*) for antidiabetic activity
- Department of Clinical Biochemistry, University of Kashmir for evaluation of medicinal plants for various diseases
- Department of Food Technology, University of Kashmir – bioactive nanocarrier 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 kurroo* 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*

### **Awards and Fellowships**

- **Award For ‘Excellence in Research’ for the 2022-** National Education Brilliance Awards & Summit 2022 convened by Education Connect Plus & Hypedge Media, New Delhi, May 15, 2022
- **Indo Asian – Research Excellence Award 2022 in Nanotechnology** conferred on National Science Day & International Mother Language Day, Feb 28th, 2022, organized by Research Educational Talks International, RP Multidisciplinary Research & Educational Society, India, Govt of India NITI Aayog Regd., NGO Darpan
- **GATI-Pilot Project Award’** for University of Kashmir in capacity of Nodal officer & PI, 2021 DST, India- British Council partnered ‘Gender Advancement for Transforming institutions
- **India Inspirational Women Award in Education** (Teaching Excellence in Biochemistry & Nanotechnology), Dream Catchers, New Delhi, India 2020
- **Best Paper Presentation**, Nanotechnology for Better Living (2019), NIT, Srinagar (J&K)
- **DBT-BioCare Project Research Fellowship Award** (2014-2017)
- **Scientist of the Year Award, National Environmental Science Academy**, 2012
- **Excellent/Outstanding Teacher Award** Directorate of Internal Quality Assurance Cell (DIQA), University of Kashmir based on annual student feedback, 2006-present
- **Board Member** World Research Journal of Biochemistry
- **Best Paper Presentation** National Environmental Science Academy, New Delhi, 2013 Academy of Environmental Biology, India, 2008
- **Junior Research Fellowship**, University of Kashmir, India, 1991-1994
- **University Outstanding Merit Fellowship in M.Sc** University of Kashmir, India, 1988

- **Top Ranker, B.Sc** University of Kashmir, India, 1987
- **State level Position Holder, Secondary School**, Jammu and Kashmir State Board of School Education, India, 1982

### **Administrative Positions**

- **Founder Coordinator-Head**, Department of Nanotechnology, University of Kashmir, (2017-2020, Coordinator; 2020-Present, Head)
- Member, University Academic Council, 2017- Present
- **Nodal Officer, Gender Advancement for Transforming Institutions (GATI)** Pilot Programme (DST, India), University of Kashmir 2020- Present
- **Convener & Member, GSAT** (GATI Self assessment Team), University of Kashmir 2021- Present
- **Nodal Officer, DIQA**, Department of Biochemistry, University of Kashmir, 2006-2019
- In-Charge FIST Grant Proposal Department of Biochemistry, University of Kashmir, 2009
- In-Charge, Post Graduate Admissions Department of Biochemistry, University of Kashmir, 2001-2014
- **Academic Counselor**, Biochemistry, 2013-2017

### **Membership of Professional Societies/Academic Bodies/Organizing Committees**

- Member University Task Force, C20/G20 Working Group
- Member GSAT, for DST GATI Pilot Programme, University of Kashmir
- Member, American Chemical Society, 2020-Present
- American Society for Microbiology, (USA) Life Member
- Society of Biological Chemists (India) Life Member
- National Environmental Science Academy (NESAs) Life Member
- Academy of Environmental Biology (India)
- Chairperson Departmental Committee, Departmental Research Committee & Admission Committee in Nanotechnology, University of Kashmir
- Chairperson Board of Post-graduate Studies in 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
- Member, Lab Biosafety Committee, University of Kashmir, 2020-Present
- Expert Member, 'Center of Excellence Sub Project Evaluation Committee', CCRIUM, Ministry of AYUSH, Govt. of India
- Member University Academic & Research Advisory Committee for Female Students and Scholars, 2023-Present

- 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
- Convener, Co-host Institute UoK, 5th Edition of International Conference on "Nanotechnology for Better Living" NBL-2019, organized by NIT, Srinagar and IIT Kharagpur, scheduled from 7-11 April, 2019
- Member Organizing Committee, Science Congresses held at University of Kashmir, 2006-present
- Member Organizing Committee, Symposia organized by Department of Biochemistry and Department of Nanotechnology, University of Kashmir, 2001-till date

**Publications (All)** Citations: 891; h-index: 18; i10-index: 25

1. Haamid Bashir, Sabhiya Majid, Mosin Saleem Khan, Mohammad Hayat Bhat Rabia Hamid, Roohi Ashraf, Sunia Faiz 2022. Inter-relationship of Pro- and Anti- inflammatory Biomarkers with the development of Type 2 Diabetes Mellitus *Heliyon (Elsevier)* 2022 Oct 31; 8(11): 1-11 e11329. doi: 10.1016/j.heliyon.2022.e11329. PMID: 36387548; PMCID: PMC9641208. I.F: 3.776 ISSN: 2405-8440
2. Ifrah Manzoor, Muzafar Ahmad Rather, Saima Sajood, Showkeen Muzamil Bashir, Sohail Hassan, Manzoor-u-Rehman, and Rabia Hamid (2022) Nanotechnology in Healthcare Management. In: *Diverse Applications of Nanotechnology in the Biological Sciences: An Essential Tool in Agri-Business and Health Care Systems* (Hakeem, K.R., Kamli, M., Sabir, J.S.M., & Alharby, H.F. (Eds.) (1<sup>st</sup> ed.). 34 pages pp 139-172 Apple Academic Press. <https://doi.org/10.1201/9781003277255> E-ISBN: 9781003277255
3. Hamid B, Mohammad Hayaat Bhat, Sabhiya Majid, Rabia Hamid (2022) Elucidation of early markers in Insulin resistance Diabetes patients of Kashmir Valley. *Metabolism* 128 (Supplement March 2022): 155106 <https://doi.org/10.1016/j.metabol.2021.155106> ISSN No.: 0026-0495 (Elsevier) Impact Factor: 8.694
4. Roshia Ali, Hilal Ahmad Mir, Rabia Hamid, Basharat Bhat, Riaz A. Shah, Firdous A. Khanday, Sahar Saleem Bhat (2022) Actin modulation regulates the Alpha-1-Syntrophin/p66Shc mediated redox signaling contributing to the RhoA GTPase protein activation in breast cancer cells *Frontiers in Oncology: Cancer Molecular Targets and Therapeutics* Feb, (2021), 12: 841303 doi: 10.3389/fonc.2022.841303 ISSN: 2234-943X Impact Factor: 5.738
5. Rohina Bashir, Ovais Zargar, Akhtar H Malik, Rabia Hamid\* (2022) Apoptosis inducing effects of *Thymus linearis* methanolic extract in HCT-

- 116 cells and LC-MS chemical profiling of its active constituents *Natural Products Journal* (Bentham Science Publishers) 12(4): 64-75 (July 01, 2022) DOI: 10.2174/2210315511999210128202816 ISSN: 2210-3163 (Print) 2210-3163 (Online) Impact Score = 1.2
6. Rohina Bashir, Ovais Ahmad Zargar, Qazi Parvaiz, Rabia Hamid\* (2021) The modulation of PI3K/Akt pathway by 3 $\beta$  hydroxylup-12- en-28-oic acid isolated from *Thymus linearis* induces cell death in HCT-116 cells. *Chemical Biology & Drug Design*. 2021; 99:162–178. John Wiley & Sons A/S. Online ISSN: 1747-0285. Impact factor: 2.873
  7. Roshia Ali, Sahar Bhat, Rabia Hamid, Hilal Ahmad Mir and Firdous Ahmad Khanday (2021) Targeting Cancer Stem Cells: Implications in health and disease. In: *Frontiers in Clinical Drug Research - Anti-Cancer Agents Research* (Bentham Science Publishers, E book). (March) Vol 6: 170-207 ISSN: 2451-8905 (Print) ISSN: 2215-0803; (Online) ISBN: 978-981-14-7841-3 (Print); ISBN: 978-981-14-7843-7 (Online) doi: 10.2174/97898114784371210601.
  8. Kaneez Fatima, Zakir Hussain, Rabia Hamid\* (2021) Oxidative stress and diabetic complication: a systematic review *Chemistry & Biology Interface* 11 (6): 182-196, (November - December 2021) ISSN: 2249 –4820 (Publishers: Indian Society of Chemists and Biologists).
  9. Rohaya Ali, Masood Ayoub, Sabia Qureshi, Showkat Ahmad Ganie, Rabia Hamid (2021) Chemical Characterization and Protective Effect of *Juniperus Squamata* Buch.- ham.exd.don Against Cyclophosphamide-induced Immunosuppression in Albino Rats. *American Journal of Ethnomedicine* 8(9): 9023 ISSN: 2348-9502 I.F: 0.94 (iMedPub Ltd., London, UK)
  10. Khurshed A. Shah H. Alrobei G.N. Dar Farooq A. Khanday S. Muzaffar Ali Andrabi, Rabia Hamid (2021) Modeling and simulation of carbon nanotube amino-acid sensor: A first-principles study *Computational and Theoretical Chemistry* **1204**: 113402 ISSN: 2210-271X, <https://doi.org/10.1016/j.comptc.2021.113402> Impact Factor: 2.292 (Elsevier)
  11. Roshia Ali, Hilal Ahmad Mir, Rabia Hamid, Riaz A. Shah, Firdous A. Khanday & Sahar Saleem Bhat (2021) Jasplakinolide Attenuates Cell Migration by Impeding Alpha-1-syntrophin Protein Phosphorylation in Breast Cancer Cells. *The Protein Journal* (January) **40**: 234–244. <https://doi.org/10.1007/s10930-021-09963-y> (Springer) Electronic ISSN: 1573-4943 Print ISSN:1572-3887 Impact Factor =4.0
  12. Ovais Zargar, Rohina Bashir, Mohammad Afzal Zargar, Rabia Hamid\*, (2021) COVID-19 Pandemic: Current Scenario, Challenges and Future Perspectives *Coronaviruses* (Bentham Science Publishers) **2(8)**: 1-16 ISSN: 26667975 (Online) 26667967 (Print) DOI:10.2174/26667967019992011-11200856
  13. Rabia Hamid and Ifrah Manzoor (2020) Nanomedicines: Nano based Drug Delivery Systems Challenges and Opportunities In: *Alternative Medicine* (Akram, M. Ed) IntechOpen Limited, Publishers, UK. ISBN: 978-1-83962-333-2; eBook (PDF) ISBN: 978-1-83962-334-9 DOI:<http://dx.doi.org/10.5772/intechopen.94353> pp 1-21.
  14. Sumaya Hassan, Muzafar Ahmad Bhat' Nasreena Sajjad, Rohaya Ali,

- Showkat Ahmad Ganie, Rabia Hamid\* 2020 Hepatoprotective effects of *Meconopsis aculeata* extract against CCl<sub>4</sub> induced oxidative damage in rats. *Advances in Traditional Medicine*, 2020(3): 1-6 {ISSN: 2662-4060} Impact Factor = 1.34
15. Hasham S. Sofi, Rumaisa Rashid, Touseef Amna, Rabia Hamid, Faheem A. Sheikh (2020) Recent advances in formulating electrospun nanofiber membranes: Delivering active phytoconstituents. *Journal of Drug Delivery Science and Technology* 60(2020): 1-17 <https://doi.org/10.1016/j.jddst.2020.102038> ISSN: 1773-2247 Impact Factor: 3.981 (Elsevier)
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### **Submitted and accepted:**

1. Kaneez Fatima, Zakir Hussain, Tariq Maqbool Rabia Hamid\* (2022) Antioxidant activity of crude extracts and GC-MS FTIR analysis studies of the different extract of *Artemisia moorcroftiana* *Archives of Pharmacal Research*. ISSN: 1976-3786 (Springer) Impact Factor: 4.96
2. Kaneez Fatima, Zakir Hussain, Tariq Maqbool Rabia Hamid\* (2022) Recent Advances in Nanotechnology-Based Diagnosis and Treatments of Diabetes *Journal of Diabetes & Metabolic Disorders* ISSN: 2251-6581(Springer) Impact Factor: 1.86

### **Reviewer for following Journals (Most Recent):**

1. **PLOS One** (*PLOS*)
2. **Gene** (*Elsevier*)
3. **International Journal of Biological Macromolecules** (*Elsevier*)
4. **European Journal of Integrative Medicine** (*Elsevier*)
5. **Phytotherapy Research** (*Wiley*)
6. **Advances in Traditional Medicine** (*Springer*)
7. **Bioorganic Chemistry** (*Elsevier*)
8. **International Journal of Nano Dimension**
9. **The Journal of Food Quality** (*Wiley Online Library*)
10. **Current Microbiology** (*Springer*)
11. **Yeast** (*Wiley Online Library*)
12. **Biotechnology Journal International** (*Science Domain International*)
13. **Chemical Neuroscience** (*American Chemical Society*)
14. **Natural Product Research** (*Taylor and Francis*)

### **Conference/Symposia/Workshops With Paper Presentations**

1. Rabia Hamid, (2023) Department of Nanotechnology- An update, in Alumni Meet cum Seminar on 'Recent Trends in Nanotechnology', organized by Department of Nanotechnology, University of Kashmir, March 14, 2023.
2. Rabia Hamid (2022) "GATI at UoK" Task Force Review meeting organized by DST GoI, INSA Headquarters, New Delhi, Aug 2-3, 2022.
3. Rabia Hamid (2022) "Gender Gaps in Biological Sciences: Historical perspectives, current scenario and the road ahead" Proceedings of One day National Seminar on International Women's Day organized by CWSR, University of Kashmir, March 8, 2022.
4. Roshia Ali, Sahar Saleem Bhat, Rabia Hamid, Firdous A Khanday (2019) Flavonoid

- treatment decreases cell viability and Alpha-1 syntrophin expression in breast cancer cells. 6<sup>th</sup> World Congress on Nanomedical Sciences (ISNSCON 2018) organized by University of Delhi Jamia Hamdard, New Delhi, Jan 7-9.
5. Haamid Bashir, Rabia Hamid, Sabhiya Majid (2019) Elucidating the role of TNF-and IL-6 inflammatory markers as early prediction biomarkers in type 2 Diabetes mellitus – a case control study. 6<sup>th</sup> World Congress on Nanomedical Sciences (ISNSCON 2018) organized by University of Delhi Jamia Hamdard, New Delhi, Jan 7-9.
  6. Sumaya Hassan, Abubakar Wani, Shilpa Gupta, Showkat A. Ganie and Rabia Hamid\* (2018) Anti-inflammatory effects of *Mecanopsis aculeate* methanolic extracts of J774A.1 macrophages. Two days National Interdisciplinary Conference on Science in Development, organized by S.P College, Srinagar, December 3-4.
  7. Muzafar Ahmad, Showkat A Ganie and Rabia Hamid (2018) Anti-inflammatory activity of *Taxus Wallachiana*- *in vitro* and *in vivo* study. Two days National Interdisciplinary Conference on Science in Development, organized by S.P College, Srinagar, December 3-4.
  8. 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 CCl<sub>4</sub> 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.
  9. Rohaya Ali, Rabia Hamid\*, et al. (2018) “*In vitro* rat lymphocyte proliferation induced by different extracts of *Juniperus 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.
  10. Sumayah Hassan, Rabia Hamid\*, et al. (2018) “Phytochemical screening and hepatoprotective effects of *Meconopsis aculeate* extract against CCl<sub>4</sub> 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.
  11. 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.
  12. Nasreena Sajjad, B A Ganai, 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.
  13. 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.
  14. 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” 13<sup>th</sup> JK Science Congress, University of Kashmir in collaboration with the JK State Science, Technology and Innovation Council, April 2-4.
  15. 12. Muzafar Ahmad, Rabia Hamid\* et al. (2018) “Anti-oxidative prospects and liver protective action of *Taxus wallichiana* extracts” 13<sup>th</sup> JK Science Congress, University of Kashmir in collaboration with the JK State Science, Technology and Innovation Council, April 2-4.
  16. 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.
  17. 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.
18. 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.
  19. Rabia Hamid\* et al. (2017) “Antimicrobial Activity of *Euphorbia helioscopia* Leaf Lectin against Waterborne Disease Causing Bacteria”. Proceedings of Two day International Semi- nar on Water Pollution and Health, organized by Department of Civil Engg and Technology, Jamia Millia Islamia, New Delhi, July 27-28.
  20. Rabia Hamid\* et al. (2015) “*Atropa acuminata* provides protection against Carbon Tetra- chloride Induced Liver Injury in Rats”. Proceedings of the 11<sup>th</sup> JK Science Congress, 2015 organized by University of Kashmir, Oct 12-14.
  21. Rabia Hamid\* et al. (2015) “Evaluation of in vitro Antioxidant Potential of *Thymus linearis*” Proceedings of the 11<sup>th</sup> JK Science Congress, 2015 organized by University of Kashmir, Oct 12-14.
  22. Rabia Hamid\* 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.
  23. 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).
  24. 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.
  25. Rabia Hamid\* et al. (2015) “A therapeutic approach to find a natural bio-active antioxidant 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.
  26. 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.
  27. Rabia Hamid\* et al. (2013) A Lectin Purified from Seeds of Bird’s Foot Trefoil with Anti- cancer 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.
  28. 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.
  29. Rabia Hamid\*. (2013) Evaluation of molecular mechanisms of picrosides from *Picrorhiza kurroa* for anticancer action. DBT Taskforce Meeting, INSA New Delhi, October 25.
  30. Rabia Hamid\* et al. Anti-inflammatory/Antioxidant/Anticancer potential of medicinal plants from Kashmir. Three day 9<sup>th</sup> JK Science Congress 2013 Regional Science Congress (ISCA), organised by University of Kashmir [sponsored by JK SC ST, DST (GOI) ISCA], October 1-3, 2013.
  31. Rabia Hamid\*. Biological Informatics in Scientific Data Management. (2013) Proceedings of The 12<sup>th</sup> International Conference on Global Contemporary Issues, Innovations Future Challenges in Business, IT Management, Jaipur, Jan 5-6.
  32. 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.
33. Rabia Hamid\* et al. Effect of *Lotus corniculatus* lectin on migration in Leukemia Cancer Cells (2012). Proceedings of the one day 1<sup>st</sup> JK Womens’ Science Congress, on “Women in Science: An Initiative for Women Scientists”, at S.P College Srinagar, December 11-13.
  34. 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.
  35. Rabia Hamid\*(2012) Exploration of anticancer potential of lectin isolated from *Lotus corniculatus*. Proceedings of the 8<sup>th</sup> JK Science Congress (2012) organised by the University of Kashmir in collaboration with Council for Science Technology, Govt. of JK, and DST, GOI at University of Kashmir, Sept.17-19.
  36. Rabia Hamid\*Prevalence of promoter hypermethylation of mgmt gene in colorectal cancer patients of Kashmir Valley. Proceedings of the 8<sup>th</sup>JK Science Congress (2012) organised by the University of Kashmir in collaboration with Council for Science Technology, Govt. of JK, and DST, GOI at University of Kashmir, Sept.17-19.
  37. Rabia Hamid. (2012) Prognostic and diagnostic role of Hematological parameters in gastric cancer risk. Proceedings of the 8<sup>th</sup> JK Science Congress (2012) organised by the University of Kashmir in collaboration with Council for Science Technology, Govt. of JK, and DST, GOI at University of Kashmir, Sept.17-19.
  38. Rabia Hamid, et al. (2012). Comparison of hematological parameters in untreated and treated Subclinical hypothyroidism and Primary hypothyroidism Patients. Proceedings of the 8<sup>th</sup> JK Science Congress (2012) organised by the University of Kashmir in collaboration with Council for Science Technology, Govt. of JK, and DST, GOI at University of Kashmir, Sept.17-19.
  39. Rabia Hamid. et al. (2012). Rise of platelet parameters in subclinical hypothyroid patients in Kashmir valley. Proceedings of the 8<sup>th</sup> JK Science Congress (2012) organised by the University of Kashmir in collaboration with Council for Science Technology, Govt. of JK, and DST, GOI at University of Kashmir, Sept.17-19.
  40. Rabia Hamid et al. (2012). CPG methylation in exon 1 of tcf4 gene as an early biomarker of gastric cancer. Proceedings of the 8<sup>th</sup> JK Science Congress (2012) organised by the University of Kashmir in collaboration with Council for Science Technology, Govt. of JK, and DST, GOI at University of Kashmir, Sept.17-19.
  41. Rabia Hamid\*(2012) pH Dependence of a Lectin Purified from *Euphorbia helioscopia* and its Potential Antimicrobial Activity. Proceedings of the One-day Seminar on Advances in Biosciences organized by the faculty of Biosciences Amar Singh College (Sgr) at Srinagar, June 12.
  42. Rabia Hamid\* (2012) Plant Products as Novel Antiviral agents: At the Crossroads of Drug Discovery Informatics. Proceedings of the 3<sup>rd</sup> 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.
  43. Rabia Hamid\*. (2012) In vitro Antibacterial Activity of *Eremurus himalaicus*- An Important and Endemic Medicinal Plant of North-Western Himalaya. Proceedings of the 2<sup>nd</sup> 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.
  44. Rabia Hamid\* (2012) Biotechnology in Global Economy. Proceedings of the “11<sup>th</sup> 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.
45. 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.
  46. 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.
  47. 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.
  48. 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.
  49. 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.
  50. Rabia, Hamid\* Isolation and partial characterization of a lectin from *Prunella vulgaris* and evaluation of its potential antimicrobial activity (2010). Proceedings of 6<sup>th</sup> Science Congress held at University of Kashmir, from Dec 2-4.
  51. Rabia, H\* Purification and evaluation of antimicrobial activity of a lectin from *Indigofera heterantha*. (2010). Proceedings of 6<sup>th</sup> JK Science Congress held at University of Kashmir, from Dec 2-4.
  52. 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.
  53. Rabia Hamid \* (2008) Isolation and partial characterization of a lectin from the seeds of pea plant. Proceedings of the 28<sup>th</sup> 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.
  54. Hamid, R\*, et al. 2008. Isolation, Purification and Partial Characterization of a Lectin from *Glycine Max*. Proceedings of the 4<sup>th</sup> JK Science Congress, University of Kashmir, Oct. 12-14.
  55. 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 75<sup>th</sup> Annual Meeting of the Society of Biological Chemists (India). Held at Jawaharlal Nehru University (JNU), New Delhi from Dec 8-11.
  56. Hamid, R\*, et al. (2006). Isolation and partial characterization of wax bean lectin. Proceedings of the 2<sup>nd</sup> JK Science Congress (India), Srinagar at the University of Kashmir from July 25-27.
  57. Hamid, R\*, et al., (2006) Isolation and partial characterization of lectins from the seeds of *Pisum sativum* var. Arkel. Proceedings of the 2<sup>nd</sup> JK Science Congress (India). Held in Srinagar at the University of Kashmir from July 25-27.
  58. Hamid, R\*, et al.(2004). Conformational Changes Induced by Chemical Modification of *Crotalaria pallida* Lectin. Proceedings of the 73<sup>rd</sup> Annual Meeting of the Society of Biological Chemists (India). Held at G.B. Pant University of Agriculture and Technology, Pantnagar from Nov. 21-24.
  59. 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 10<sup>th</sup>FAOBMB Congress. Held in Bangalore, from Dec.7-9.

60. 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.
61. R. Hamid\*, A. Masood and M. A. Baig (1996). Molecular Properties and Erythroagglutinating Activities of a Lectin from *Crotalaria pallida* Seeds. Proceedings of the 65<sup>th</sup> Annual Meeting of the Society of Biological Chemists (India). Held from Nov. 20-23.
62. R. Hamid\* et al. (1995). Isolation and purification of a lectin from *Crotalaria pallida* Seeds. Proceedings of the 64<sup>th</sup> Annual Meeting of the Society of Biological Chemists (India). Held at Lucknow from Oct.6-8.
63. R. Hamid, et al. (1995) Physiochemical and Biological Characterization of Ovomuroid from duck egg white. Proceedings of the 64<sup>th</sup> Annual Meeting of the Society of Biological Chemists (India). Held at Lucknow from Oct. 6-8.

### **Conference Chairmanships and Invited Talks**

1. Invited faculty as Nodal Officer, GATI, to University of Manchester, Aston University, and Advance HE Headquarters, United Kingdom, organized by British Council & DST, GoI, March 27-31, 2023
2. Invited Panelist in ‘Civil 20 Women’s Safety and Engaging Men & Boys’, In-Person Policy Dialogue for G20 Policy paper submission at University of Kashmir, Srinagar, organized in collaboration with Amrita University, Kerala, India on 13-14 February 2023.
3. Invited subject expert member, for Project evaluation in ‘Center of Excellence Sub Project Evaluation Committee’, CCRIUM, Ministry of AYUSH, Govt. of India, Jan 16, 2023.
4. Co-chairperson, Technical Session-II in two-day National Conference cum Workshop on Innovations & Entrepreneurship for Sustainable Development organized by School of Life Sciences, Central University of Kashmir in collaboration with SKUAST, Kashmir, at University of Kashmir, Dec 20-21, 2022
5. Chairperson, Technical Session-I in one-day National Seminar on "Intellectual Property Rights and Public Health Research: Way forward in Unani Medicine" organized by CCRUIM at Regional Research Institute of Unani Medicine, Srinagar, J&K October 03, 2022
6. Chairperson, Poster Session in 3-day 44<sup>th</sup> All India Cell Biology Conference & International Symposium on Molecular And Cellular Insights of Human Diseases, organised by Department of Biochemistry, UoK & CDRI, Lucknow, at University of Kashmir, Sep 2-4, 2022
7. Convener, Talk Session by Dr. Bushra Ateeq on “Women in STEMM”, organized for STEMM Departments under DST-GATI-Pilot Programme, Department of Nanotechnology, University of Kashmir, June 28, 2022
8. Invited speaker as Nodal person in the One to One meeting with Think Through Consultancy (TTC) British Council, India, for University of Kashmir in British Council partnered-DST sponsored Gender Advancement for transforming Institutions (GATI), June 24, 2022
9. Invited speaker as Nodal person in the One to One meeting with University College London, UK for University of Kashmir in British Council partnered-DST sponsored Gender Advancement for transforming Institutions (GATI), June 17, 2022
10. Chairperson, Technical session on “Heath and Nutrition” Unani Day 2022 and International Conference organised by CCRUM (Unani), Ministry of Ayush, GoI, Srinagar Mar 11-12
11. Convener, International Webinar on “International Women’s Day”, organized under DST-GATI-Pilot Programme, Department of Nanotechnology, University of Kashmir,

March 12, 2022

12. Invited Speaker, in One day National Seminar on International Women's Day organized by CWSR, University of Kashmir, March 8, 2022
13. Invited speaker as Nodal person in the One to One meeting with University College London, UK for University of Kashmir in British Council partnered-DST sponsored Gender Advancement for transforming Institutions (GATI), Feb 25, 2022
14. Convener, Webinar on "International day of Women and Girls in Science", organized under DST-GATI-Pilot Programme, Department of Nanotechnology, University of Kashmir, Feb 12, 2022
15. Invited speaker as Nodal person in the One to One meeting with University College London, UK for University of Kashmir in British Council partnered-DST sponsored Gender Advancement for transforming Institutions (GATI), Jan 14, 2022
16. Invited speaker, Refresher Course on Gender Studies (Interdisciplinary), UGC-HRDC, University of Kashmir, Nov 24, 2021
17. Invited speaker as Nodal person in the One to One meeting with University College London, UK for University of Kashmir in British Council partnered-DST sponsored Gender Advancement for transforming Institutions (GATI), Dec 13, 2021
18. Nodal person speaker representative for University of Kashmir in British Council partnered- DST sponsored Gender Advancement for transforming Institutions (GATI) meetings (Jan 13, 2022; Nov 18, 2021; July 23, 2021; Aug 3, 2021; Aug 10, 2021)
19. Technical expert evaluator for PhD DPAC, IIIM, Srinagar, Nov 17, 2020
20. Member participant for University Biosafety Committee Meeting, Nov 2020
21. Invited Speaker, on National Science day. SSM College of Engineering, Parihaspora, J&K, March 2, 2020
22. Convener, Cohost Institute UoK, 6<sup>th</sup> World Congress on Nanomedical Sciences (ISNSCON 2018) jointly organized by University of Delhi and Jamia Hamdard and, co-hosted by University of Kashmir in New Delhi on Jan 7-10, 2019.
23. Session Coordinator and Chairperson, Technical session on "Nanotechnology in Drug and Vaccine Development" in the 6<sup>th</sup> World Congress on Nanomedical Sciences (ISNSCON 2018) jointly organized by University of Delhi and Jamia Hamdard and co-hosted by University of Kashmir in New Delhi on Jan 7-10, 2019.
24. Chairperson, Poster session on "Herbal Medicine" in the 6<sup>th</sup> World Congress on Nanomedical Sciences (ISNSCON 2018) jointly organized by University of Delhi and Jamia Hamdard and co-hosted by University of Kashmir in New Delhi on Jan 7-10, 2019.
25. Session Coordinator, Session-8A (Arthur Kornberg Session) Biochemical Innovations: Translating Cellular Cues into Novel Therapeutics 7<sup>th</sup> Annual Conference of Indian Academy of Biomedical Sciences (2018) Organized by Department of Clinical Biochemistry, SKIMS, Srinagar, April 20-22.
26. Chairperson Technical Session, Biochemical Innovations: Translating Cellular Cues into Novel Therapeutics 7<sup>th</sup> Annual Conference of Indian Academy of Biomedical Sciences (2018) Organized by Department of Clinical Biochemistry, SKIMS, Srinagar, April 20-22.
27. Technical Evaluator Poster Session, Biochemical Innovations: Translating Cellular Cues into Novel Therapeutics 7<sup>th</sup> Annual Conference of Indian Academy of Biomedical Sciences (2018) Organized by Department of Clinical Biochemistry, SKIMS, Srinagar, April 20-22.
28. Session Coordinator, Technical Session-I on 'Nanotechnology' in 13<sup>th</sup> JK Science Congress (2018) organized by the University of Kashmir April 2-4.
29. Invited Speaker: 'Nanotechnology and its cutting edge applications in medicine' in 13<sup>th</sup> JK Science Congress (2018) organized by the University of Kashmir April 2-4.
30. Chairperson, Technical Session-II on 'Biochemistry' in 13<sup>th</sup> JK Science Congress (2018) organized by the University of Kashmir April 2-4. Chairperson, Technical Session-II on 'New Biology' (Biochemistry) in 11<sup>th</sup> JK Science Congress (2015)



- organized by the University of Kashmir Oct 12-14.
31. 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.
  32. 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.
  33. Chairperson, Technical Session on 'Cellular Sciences and Technology' (Biotechnology and Molecular Biology) at the 8<sup>th</sup> JK Science Congress (2012) organised by the University of Kashmir in collaboration with Council for Science Technology, Govt. of JK, and DST, GOI at University of Kashmir, Sept.17-19.
  34. 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.
  35. 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.

### **Other Conferences/Workshops attended Attended**

1. One-Day National Seminar on "DOMESTIC VIOLENCE" Sponsored by National Commission for Women, New Delhi at University of Kashmir, Feb 21, 2023.
2. Two Day webinar on 'FERMENTATION: INTERPLAY OF MICROBES, IMMUNITY AND NUTRITION' organized by Department of Rural Development & Agricultural Production (RDAP) North-Eastern Hill University (NEHU), Tura Campus, Meghalaya In Association with Biotechnology Industry Research Assistance Council (BIRAC), A Government of India Enterprise, Feb 3-4, 2023
3. Two day's Capacity Building Workshop on Prevention of Sexual Harassment at Workplace (POSH) organized by Internal Complaints Committee University of Kashmir, October 31 and November 01, 2022
4. Three day online International Conference on 'Higher Education, Research and Innovation-ICHERI'22' organized by S&T Digital, IISER, Pune, July 28-30, 2022.
5. Attended one day broadcast webinar entitled "IN CONVERSATION with IGNITE", "Stories behind Science" co-organized by Ignite Life Science Foundation, Cactus Communications, and India Bioscience, June 16, 2022.
6. UGC Sponsored Webinar on MOOCs Development and Delivery organized by UGC-HRDC, University of Kashmir, Oct 30, 2021
7. Attended Orientation/Interactive meetings related to British Council partnered- DST sponsored Gender Advancement for transforming Institutions (GATI) meetings on July 23, 2021; Aug 3, 2021; Aug 10, 2021
8. Attended a Webinar on "Metal oxide nanoparticles as next generation" organized by Aaivaler Materials Society, Coimbatore on April 17, 2021.
9. Attended a Seminar on "*Birth Centenary Celebration of Dr. Vikram Sarabhai & The 31st Mid Year Meeting Of The Academy (Webinar)*", organized by IASc Bengaluru, from 02-07-2020 to 04-07-2020
10. Attended a Conferences on "*2020 Insights Immunology*", organized by BD Biosciences, Houston, USA, dated 07-07-2020
11. Attended a Seminar on "*Dal Lake- Past, Present and Future (Webinar)*", organized by University of Kashmir in collaboration with People's Environmental Council, J&K, dated 19-07-2020

12. Attended a Seminar on "*International Webinar Lecture Series – III*", organized by HRDC, University of Kashmir in collaboration with University of North Texas, USA, dated 20-07-2020
13. Attended a Seminar on "*SICI Programmes & Grants Webinar Series: Mitacs - SICI Partnership: Globalink Research Award (GRA)*", organized by Shastri Indo-Canadian Institute, dated 20-07-2020
14. Attended a Seminar on "*Harnessing neoantigens for individualized cancer immunotherapy (Webinar)*", organized by Satorius Current Protocols, Wiley online, dated 20-07-2020
15. Attended a Seminar on "*Indo-Canadian Research Fellowships: Opportunities for Students*", organized by Shastri Indo-Canadian Institute, dated 24-07-2020
16. Attended a Seminar on "*Vision 2020 & Beyond: Higher Education & Research Cooperation Between India & Canada*", organized by Shastri Indo-Canadian Institute, dated 07-07-2020
17. Attended a Seminar on "*Webinar on Senior and Intermediate Fellowships in Basic Biomedical Research*", organized by DBT/Wellcome Trust India Alliance (India Alliance) Webinar, from 07-07-2020 to 08-07-2020
18. Attended a Seminar on "*Indian Scientists' Response to CoViD-19' Webinar*", organized by ISRC. India, dated 07-07-2020
19. Attended a Seminar on "*The Future of Pre-clinical Drug Research: An Introduction to Organ-on-Chip (webinar)*", organized by The CN Bio Team Cambridge, UK, dated 02-06-2020
20. Attended a online Conference on "*Two day Virtual Conference on Lysosomal diseases*", organized by The Gaucher Unit, ShaareZedek Medical Center, Jerusalem, Israel, from 01-06-2020 to 02-06-2020
21. Attended a Seminar on "*Writing a Winning Proposal for Faculty Mobility Award - Shastri Mobility Programme (SMP) for STEM Disciplines! (Webinar series on crafting a proposal)*", organized by Shastri Indo-Canadian Institute, dated 08-06-2020
22. Attended a Seminar on "*From Lab to Library – a Nanoscientist's hunt for research content*" (Webinar)", organized by Springer Nature Publishing group, dated 17-06-2020
23. Attended a Conferences on "*INTERNATIONAL FACULTY DEVELOPMENT PROGRAMME ON INNOVATION AND TRANSFORMATION ON PHARMACY RESEARCH*", organized by Deptt. of Pharmacy Practice, Chalapathi Institute of Pharmaceutical Sciences, Guntur, AP, from 19-06-2020 to 22-06-2020
24. Attended a Seminar on "*ONLINE MEETING ON CANNABIS AND CANNABINOIDS*", organized by Prism Scientifics Services, Victoria, Melbourne, dated 24-06-2020
25. Attended a Seminar on "*One-day webinar on 'Glycobiology'*", organized by American Society of Biochemists and Molecular Biologists (ASBMB), dated 23-06-2020
26. Attended a Workshop on "*Online STOA workshop 'The big future of Nanotechnology in medicine'*", organized by European Parliamentary Research Service, dated 25-06-2020
27. Attended a Seminar on "*One-day webinar on 'Label-free Molecular Imaging of Metabolites and Lipids Enhances Understanding of Biological Processes'*", organized by Bruker Technology Networks, Billerica, MA, USA, dated 24-06-2020
28. Attended a Workshop on "*The people & principles behind Nature*" (Online)", organized by Springer, Nature, dated 18-06-2020
29. Attended a Workshop on "*Science-Academies'-IN-YAS 'Science Leadership Workshop' (7-days Online Workshop)*", organized by Indian Academy of Sciences, Bangalore, Indian National Science Academy, New Delhi, National Academy of Sciences, India, Allahabad, and Indian National Young Academy of Sciences, New Delhi, from 22-06-2020 to 28-06-2020
30. Attended a Workshop on "*One-day virtual workshop on 'Plagiarism – An Opportunity to Learn, Teach & Excel'*", organized by Department of Bioresources, University of Kashmir in association with Turnitin, dated 24-06-2020

31. Attended a Seminar on "One day Webinar on 'Systematic reviews and meta-analysis: a viable alternative to experimental research in times of COVID-19'", organized by Department of Pharmaceutical Sciences, University of Kashmir, dated 28-06-2020
32. Attended a Seminar on "DBT's response to COVID-19", organized by DBT in collaboration with DBT/Wellcome Trust India Alliance, dated 03-07-2020
33. Attended a Seminar on "Pharmacy Profession in India: Present Status and Future Challenges (Webinar)", organized by Department of Pharmaceutical Sciences, UOK in Collaboration with UGC - Human Resource Development Centre, University of Kashmir, dated 14-07-2020
34. Attended a Workshop on "Prominence of Animals in Research", organized by Indian Institute of Technology [IIT], Ropar, India, dated 10-07-2020
35. Attended a Seminar on "Facts & Facets: Shastri Institutional Collaborative Research Grant (SICRG)", organized by Shastri Indo-Canadian Institute, dated 13-07-2020
36. Attended a Seminar on "Better Research Through Better Data Live with The National Institutes of Health (NIH), United States", organized by Springer Nature Group,, dated 09-07-2020
37. Attended a Seminar on "A Masterclass on Research Reporting and Ethical Reproducibility in Life Sciences", organized by Enago Academy, USA, dated 24-06-2020
38. Attended a Seminar on "Fundamentals of Effective Scientific Writing: Manuscripts and Grants (Webinar)", organized by American Chemical Society (ACS), USA, dated 09-06-2020
39. Attended a Seminar on "PLANNING AND ORGANIZING RESEARCH USING ELSEVIER TOOLS: SCIENCEDIRECT, SCOPUS and MENDELEY (Webinar)", organized by Department of Bioresources, In Collaboration with Elsevier, dated 26-04-2020
40. Attended a Workshop on "Nanotechnology for Health: Innovative Designs for Medical Diagnosis (4 week online workshop)", organized by University of Twente, Netherlands, from 20-04-2020 to 20-05-2020
41. Attended a Workshop on "One day workshop on online tools for Reviewing the Research Literature for better research productivity (online)", organized by RaX in collaboration with Guru Nanak Dev University, Amritsar, dated 15-05-2020
42. Attended a Seminar on "Strengthening research capabilities remotely: Empowering Indian Research on COVID-19 (Webinar)", organized by Department of Biotechnology, Govt. of India in collaboration with Elsevier, dated 22-05-2020
43. Attended a Workshop on "National online faculty development programme on DIGITAL LITERACY: Stepping into a New Normal", organized by School of Education and Research, MIT-ADT University, Pune, from 21-05-2020 to 23-05-2020
44. Attended a Seminar on "Observing Viral Structure and Host-Virus Interactions- Harnessing the power of single molecule localization microscopy for viral research (online)", organized by Bruker - Fluorescence Microscopy Business, USA, dated 26-05-2020
45. Attended a Seminar on "Repurposing in a crisis: Tackling the COVID-19 wildfire", organized by School of Pharmacy, University of California & Sanford Burnham Presbys Medical Discovery Institute, USA, dated 03-06-2020
46. Attended a Seminar on "Assessing Cell Health – Keep Your Fingers on the Pulse With BrdU Assays", organized by Bio-Rad Laboratories, UK, dated 28-05-2020
47. Attended a Seminar on "How Can Metabolomics Accelerate Natural Product Discovery? (Webinar)", organized by Waters Corporation, USA, dated 27-05-2020
40. 6<sup>th</sup> World Congress on Nanomedical Sciences (ISNSCON 2018) jointly organized by University of Delhi and Jamia Hamdard and co-hosted by University of Kashmir in New Delhi on Jan 7-10, 2019.
41. Two day National seminar on "Intellectual Property Rights, organized by the Regional Research Institute of Unani Medicine, University of Kashmir and Central Council for Research in Unani Medicine, Srinagar, Nov 30-Dec 1, 2018.
42. Two day National Conference and Workshop on "Advances in Biopolymers-2018", organized by University of Kashmir, October 30-31, 2018.

43. 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.
44. Three day 7<sup>th</sup> 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.
45. Three day 13<sup>th</sup> JK Science Congress (2018) organized by the University of Kashmir April 2-4.
46. 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.
47. 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.
48. 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.
49. 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.
50. Three day 11<sup>th</sup> JK Science Congress, 2015 on ‘Scientific, Social and Economic Dimensions of Climate Change’ organized by University of Kashmir, Oct 12-14.
51. 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.
52. Two day National Symposium on ‘Biodiversity, Biology and Bioprospecting’, 2015 organized by Department of Botany, University of Kashmir, April 1-2.
53. 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.
54. One day seminar on ‘World Environment Day’, 2014 organized by Department of Environmental Sciences, June 5.
55. Four day International Conference on Cellular Molecular Mechanisms of Disease Processes, 2014 organized by Department of Biotechnology, University of Kashmir, Srinagar, April 13-16.
56. 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.
57. 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.
58. Project presentation at DBT Bioinformatics Taskforce Meeting, INSA New Delhi, October 25, 2013.
59. Three day 9<sup>th</sup> JK Science Congress 2013 Regional Science Congress (ISCA) from 1st to 3rd October 2013 organised by University of Kashmir [sponsored by JK SC ST, DST (GOI) ISCA]
60. One day International Workshop on “Acupressure Way of Health” 2013 organized by the Department of Social Work and Department of Biochemistry, University of Kashmir, April 4.
61. One week Research Training Workshop on “Drug Development and Infectious Diseases” from Jan 14, 2013 organized by School of Life Sciences, JNU New Delhi.
62. 12<sup>th</sup> 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”.

63. 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.
64. One day 1<sup>st</sup> 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 JK State Council for Science and at S.P College, Srinagar.
65. Two day International Conference on Environment and Human Health (2012), organized by National Environmental Sci. Academy at INSA New Delhi, Nov 28-29.
66. 8<sup>th</sup> JK Science Congress (2012) Organised by the University of Kashmir in collaboration with Council for Science Technology, Govt. of JK, and DST, GOI at University of Kashmir, Sept.17-19.
67. 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.
68. One day Seminar in Advances in Biosciences (2012), organized by Faculty of Biosciences, Amar Singh College (Sgr) at Srinagar, June 12.
69. 3<sup>rd</sup> 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.
70. 2<sup>nd</sup> 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.
71. 11<sup>th</sup> 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.
72. 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.
73. Two-day National workshop on Nanotechnology (2011) organized by NIT Srinagar in collaboration with the ASC, University of Kashmir, Dec 9-10.
74. Two-day National Conference on "Recent Trends in Biosciences" (2011) organized by Department of Biochemistry and Biotechnology, S.P. College, Srinagar and Department of Bio-chemistry, University of Kashmir, October 3-4.
75. Three day 1<sup>st</sup> JK Agricultural Science Congress (2011) organized by SKUAST-K in collaboration with the JK State Council for Science and Technology, DST, GOI and National Horticulture Board, GoI, Sept. 8-10.
76. Two day workshop on Right to Information (2011) organized by Academic Staff College, University of Kashmir, Jun 27-28.
77. Refresher Course in Women Studies (Interdisciplinary) (2011) ASC, University of Kashmir, Srinagar, Jan 10-Feb 2.
78. One day National Symposium on "Esophageal Cancer in Kashmir. (2011) Department of Biochemistry, University of Kashmir, Srinagar. (Feb 4).
79. 6<sup>th</sup> JK Science Congress (2010). University of Kashmir, Srinagar, Dec 2-4.
80. Three-day workshop on "Modern Biology and Development of Research Programme" (2009). School of Life Sciences, Jawaharlal Nehru University, New Delhi, Dec 14-16.
81. Two-day workshop on Immunological Techniques, 2009. Department of Biochemistry, Government Medical College, Srinagar Nov 17-18.
82. 14<sup>th</sup> Refresher Course in Life Sciences (2009). Academic Staff College, JNU, New Delhi. Held from Jan. 5-30.
83. Environmental Stress and Bioresource Management. (2008). National Symposium and 28<sup>th</sup> Annual session organized by the Academy of Environmental Biology in Jamia

- Hamdard, New Delhi. Held from Nov. 20-22.
84. 4<sup>th</sup> JK Science Congress (2008). University of Kashmir in collaboration with DST, JK DST GoI. Held at the University of Kashmir, Srinagar from Oct. 12-14.
  85. 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.
  86. "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.
  87. 2<sup>nd</sup> JK Science Congress (2006). University of Kashmir in collaboration with DST, JK DST GoI. Held at the University of Kashmir, Srinagar from July 25-27.
  88. 10<sup>th</sup> Refresher Course in Life Sciences (2004-2005). Academic Staff College, JNU, New Delhi. Held from Dec.27 (2004) -Jan.20 (2005).
  89. 73<sup>rd</sup> Annual Meeting Society of Biological Chemists, India, (2004). G.B. Pant University of Agriculture Technology, Pantnagar from Nov 21-24.
  90. 10<sup>th</sup> International Congress of Federation of Asian and Oceanic Biochemists and Molecular Biologists,(2003). Held in Indian Institute of Sciences, Bangalore from Dec 7-11.
  91. General Orientation Course (2002). Academic Staff College, University of Kashmir, Srinagar. Held from Oct. 21- Nov. 16.
  92. "An Update on Clinical Immunology" (1999). Immunology Department, S.K. Institute of Medical Sciences, Srinagar. Held from Aug. 24-25.

**Rabia Hamid**