



# DEPARTMENT OF BIOCHEMISTRY

GOVERNMENT MEDICAL COLLEGE HANDWARA

*biochemistrygmchandwara@gmail.com*



The Department of Biochemistry is run by a group of experienced and talented doctors and faculty who provide diagnostic laboratory services to outpatients and inpatients. The department is equipped with the latest instruments and well-established laboratory facilities for conducting the critical biochemical tests. The laboratory is intended to serve as a referral laboratory for physicians of this hospital. The laboratory is committed to maintaining highest quality of performance using the latest technology and equipment that enables us to provide rapid and reliable results for the patient in the shortest turnaround time. Faculty and students are encouraged to do research and publish scientific papers.

The broad goal of teaching the undergraduate students in biochemistry is to make them understand the scientific basis of the life processes at the molecular level and to orient them towards the application of the knowledge acquired in solving clinical problems. This is essential to understand the complex biochemical interactions within the human body both in health and in disease.

## **Vision:**

- ❖ The Department of Biochemistry is committed to education, research, patient care, and training UG students to acquire an in-depth knowledge of the fundamental principles of the subject of Biochemistry. So that he/she can apply this knowledge, for understanding the basis of health and disease.
- ❖ Accomplish best Teaching learning Practices for effective application of Clinical Biochemistry in Clinical Practice.
- ❖ The department is dedicated to excel students in fundamental knowledge of Biochemistry to understand life at molecular level, application of scientific methods in innovative research and provide health care to the community.






## **Our Mission**

- ✓ Student Centric learning and research encouraged through problem-based learning, research projects, seminars & Skill development in techniques.
- ✓ To promote basic practical and clinical skills in conducting and interpreting laboratory investigation
- ✓ To render comprehensive and quality clinical laboratory services for the betterment of community health.
- ✓ To cultivate a culture of scientific and critical thinking and apply same in novel research.
- ✓ To evolve as a centre of Applied and developmental Research in Clinical Biochemistry

## **Objectives**

- To impart the chemical & structural knowledge about biomolecules.
- To provide an understanding of the biochemical and molecular basis of disease.
- To integrate biochemical events with structure and function of body in health and diseases.
- To enable students to use this knowledge in biochemical analysis to interpret by using recent techniques.
- To encourage the staff to update the recent biochemical concepts and engage in research biochemical concepts and engage in research activities.
- To conduct seminars, guest lectures and CME to impart the interdisciplinary nature of impart the interdisciplinary nature of biochemistry.
- To provide quality clinical chemistry laboratory services.

# This Department has an erudite faculty actively involved in teaching, patient care & research in Clinical biochemistry & molecular biology.

| Name  | Designation         | Email & Contact No   | Research links   | Research interest  |
|---|---------------------|--|--|--|
| <b>Dr. Showkat Ahmad Bhat</b><br>      | Assistant Professor | <a href="mailto:showkatbht@gmail.com">showkatbht@gmail.com</a><br>7006877501<br>9596119066   | 1: <a href="https://www.linkedin.com/in/dr-showkat-ahmad-bhat-42a32862">https://www.linkedin.com/in/dr-showkat-ahmad-bhat-42a32862</a><br>2: <a href="https://scholar.google.com/citations?hl=en&amp;tzom=-330&amp;user=T8Uc-XgAAAAJ">https://scholar.google.com/citations?hl=en&amp;tzom=-330&amp;user=T8Uc-XgAAAAJ</a><br>3: <a href="https://www.researchgate.net/profile/Dr-Showkat-Bhat">https://www.researchgate.net/profile/Dr-Showkat-Bhat</a><br>4: <a href="https://orcid.org/0000-0003-2244-1176">https://orcid.org/0000-0003-2244-1176</a> | <ul style="list-style-type: none"> <li>❖ Clinical Biochemistry</li> <li>❖ Cancer Biology</li> <li>❖ Proteomics</li> <li>❖ Molecular Biology</li> <li>❖ Epigenetics</li> <li>❖ Communicable Diseases</li> </ul> |
| <b>Dr. Syed Irtiza Ahmad</b><br>       | Senior Resident     | <a href="mailto:Syedirtiza.andrabi@gmail.com">Syedirtiza.andrabi@gmail.com</a><br>7006709275 | <a href="https://orcid.org/0000-0003-0025-9752">https://orcid.org/0000-0003-0025-9752</a>  | <ul style="list-style-type: none"> <li>❖ Cancer Biology</li> <li>❖ Clinical Biochemistry</li> <li>❖ Molecular Biology</li> <li>❖ Communicable Diseases</li> </ul>  |
| <b>Dr. Sheikh Mohhmmad Shaffi</b><br> | Senior Resident     | <a href="mailto:Sheikhshaffi81@gmail.com">Sheikhshaffi81@gmail.com</a><br>7006191242         | <a href="https://scholar.google.com/citations?user=LYGKxXUAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=LYGKxXUAAAAJ&amp;hl=en</a>  | <ul style="list-style-type: none"> <li>❖ Cancer Biology</li> <li>❖ Clinical Biochemistry</li> <li>❖ Molecular Biology</li> <li>❖ Communicable Diseases</li> </ul>  |
| <b>Dr. Ruby</b><br>                  | Senior Resident     | <a href="mailto:rubzmaqbool@gmail.com">rubzmaqbool@gmail.com</a><br>9596286323               |  | <ul style="list-style-type: none"> <li>❖ Cancer Biology</li> <li>❖ Clinical Biochemistry</li> <li>❖ Molecular Biology</li> <li>❖ Communicable Diseases</li> </ul>  |
| <b>Dr. Madiha Niyaz</b><br>          | Senior Resident     | <a href="mailto:madihaniyaz@gmail.com">madihaniyaz@gmail.com</a><br>7006877280               | <a href="https://scholar.google.com/citations?user=R8JHok8AAAAJ&amp;hl=en">https://scholar.google.com/citations?user=R8JHok8AAAAJ&amp;hl=en</a><br><br><a href="https://www.researchgate.net/profile/Madiha-Niyaz">https://www.researchgate.net/profile/Madiha-Niyaz</a>   | <ul style="list-style-type: none"> <li>❖ Cancer Biology</li> <li>❖ Clinical Biochemistry</li> <li>❖ Molecular Biology</li> <li>❖ Communicable Diseases</li> </ul>  |

## **ACADEMIC ACTIVITIES AND ACHEIVEMENTS**

Faculty is constantly encouraged and keen to academically improve, attend CME's, conferences, workshops and trainings. Department fully understands the importance of CME's, conferences, workshops and trainings in honing the capabilities of manpower of our college and will be always keen interest in doing research work in collaboration with other Institutions within and outside the state .

### **Training programs conducted as organizing Secretary**

- Three days online National seminar on “Public Health concerns-need of the hour in hilly Doda area of Jammu & Kashmir (UT) India” (14th to 16th July, 2020). REF. **File No: SSY/2020/000007, Dated: 15 Jan. 2020**
- Five days Workshop on “Biochemical laboratory techniques” organized by Department of Biochemistry, Govt. Medical College Doda and sponsored by Indian Council of Medical Research (ICMR) New Delhi, Govt. Of India. **Ref: 3/1/3/Clinical Traning/HRD/2019 (76), Dated: 15/10/2019.**

### **Training programs conducted as organizing committee member**

- ❖ National Science Day 23rd February 2019. Theme “Future of science lies in the hands of young minds” Organized by Department of Biochemistry, Government Medical College Srinagar, Karan-Nagar, Srinagar, Jammu & Kashmir and sponsored by J&K State Science, Technology & Innovation Council, Department of Science & Technology, J&K Govt
- ❖ World Diabetes Day 14 November 2018, Theme: The Family and Diabetes. Organized by Department of Biochemistry, Government Medical College Srinagar, Karan-Nagar, Srinagar, Jammu & Kashmir, India-190010 and sponsored by J&K State Science, Technology & Innovation Council, Department of Science & Technology, J&K Govt
- ❖ World Diabetes Day-2017 on 14 November 2017, Theme: Women and Diabetes - Our Right to Healthy Future. Organized by Department of Biochemistry, Government Medical College Srinagar, Karan-Nagar, Srinagar, Jammu & Kashmir, India-190010.
- ❖ Ten Days training program on “Biochemical Laboratory Techniques” (5th to 14th October, 2015) Organized by Division of Veterinary Biochemistry Faculty of Veterinary Sciences & Animal Husbandry, Shuhama, Alustang and sponsored by J&K State Science, Technology & Innovation Council, Department of Science & Technology, J&K Govt.
- ❖ Ten days training program organized by Division of Veterinary Biochemistry entitled “Methods in Recombinant DNA Technology” sponsored by J & K Council for Science and Technology, Govt. of Jammu and Kashmir held from 1<sup>st</sup> to 10<sup>th</sup> Oct. 2013.
- ❖ 1<sup>st</sup> J&K Agricultural Science 2011 (October 8-10, 2011) at SKICC Srinagar.

### **Seminar/Conference /Workshop /Training Attended/ Participated**

1. 1<sup>st</sup> Annual Conference of Metabolic Syndrome-Prediabetes Polycystic Ovary Syndrome (M P PCOS) Society, 11-13 May 2017. at SKICC Srinagar. Organized by SKIMS in collaboration with JK universities, Dental Colleges and Directorates
2. DST, DBT, DSIR /CSIR and VIBHA sponsored “India International Scientific Festival 2016”(7<sup>th</sup> to 11<sup>th</sup> December

2016) at National Physical Laboratory Posa New-Delhi

3. “Comprehensive Health response to survivors of sexual violence and guidelines on medical certification of cause of death”. Organized by Department of Forensic Medicine and Toxicology Govt. Medical College Srinagar in collaboration with Gynea –Obst. & Centre of enquiry in health and allied themes Mumbai (CEHAT) on 3<sup>rd</sup> and 4<sup>th</sup> May 2016.
4. DST, DBT, DSIR/ CSIR and VIBHA sponsored “India International Scientific Festival 2015”(4th to 8th December 2015) at Indian Institute of Technology, New Delhi (IIT)
5. Invited lecture on scenario of gastric cancer in Kashmir Valley in National Training program on “Advance approaches in Genomic, Bioinformatics and Animal Cell Culture Technology” sponsored by Department of Biotechnology, Ministry of Science and Technology, Govt. of India, Organized by Division of Biotechnology, F.V.Sc& AH, SKUAST-Kashmir.
6. Refresher course on update of intellectual property rights (IPRs) 10-11 June, 2014, Organized by Haryana State Council for Science and Technology sponsored by Department of Science & Technology, Government of India.
7. 101<sup>th</sup> Indian Science Congress-3-7 January, 2014 Jammu.
8. 100<sup>th</sup> Indian Science Congress-3-7 January, 2013 Kolkata.
9. Internship Course based on “Clinical Diagnosis of Organ System Diseases” In SKIMS from Sep, 2006-25th March, 2007.

## RESEARCH CONTRIBUTIONS IN SHAPE OF PUBLICATIONS AND BOOK/CHAPTTERS

| S. NO | Name of Book  | Editors   | ISBN              | Publisher  |
|-------|---|---|-------------------|--|
| 1.    | Lab. Manual Biochemistry, for MBBS & BDS students according to competency based undergraduate curriculum of medical commission if India | <b>Dr. Showkat Ahmad Bhat</b><br>Dr. Sabhiya Majid<br>Dr. Amarjit S. Bhatia<br>Dr. Moinudin | 978-93-80316-47-5 | Ahuja Publishing House, New Delhi  |
| 2.    | Comprehensive text book of Genetics for Nursing Students  | Dr. Sabhiya Majid<br><b>Dr. Showkat Ahmad Bhat</b>  | 978-81-940329-1-5 | Mr, Books<br>Pvt. Ltd<br>Lal-chock Srinagar  |
| 3.    | Comprehensive text book of Biochemistry for Nursing Students  | Dr. Sabhiya Majid<br><b>Dr. Showkat Ahmad Bhat</b>  | 978-81-940329-0-8 | Mr, Books<br>Pvt. Ltd<br>Lal-chock Srinagar  |
| 4.    | Key Concepts -Gastric Cancer Biology  | Dr. Sabhiya Majid<br><b>Dr. Showkat Ahmad Bhat</b><br>Dr. Nisar Ahmad Gasi                  | 978-1-73030-597-9 | SARA BOOK PUBLICATION<br>303, Maharana Pratap Complex<br>B/H.V. S. Hospital<br>Paldi, Ahmedabad  |
| 5.    | Etiology of colorectal cancer and promotor hypermethylation   | Dr. Hilal Ahmad Wani<br>Dr. Sabhiya Majid<br><b>Dr. Showkat Ahmad Bhat</b>                  | 978-620-2-06858-1 | LAP Lambert Academic Publishing,<br>International Book Market Service Ltd.,<br>Member of Omniscritum publishing group, 17Meldrum street, Beau Bassin<br>71504, Mauritius |

## PUBLISHED CHAPTERS IN BOOKS

| 1. | Name of Book   | Chapter No. 6   | Authors   | Publisher  |  |
|----|--|---|---|--|--|
|    | Nutrition and Medicines in nature                        | Rhemu Emodi as valuable Medical plant and its pharmacological aspects                                   | <u><b>Showkat Ahmad Bhat,</b></u><br>Gurjinder Singh, Sabhiya Majid, Tehseen hassan                   | ISBN: 93-8885-39-X<br>Edition: 2020<br>P: 99-111     | Publisher: Namit Wasan<br>(Discovery Publishing House) |
| 2. | Name of Book   | Chapter No. 7   | Authors   | Publisher  | Name of Book   |
|    | Nutrition and Medicines in nature                        | Scenario of Diabeties and medicinal plants as a source of its treatment                                 | <u><b>Showkat Ahmad Bhat,</b></u><br>Gurjinder Singh, Sabhiya Majid, Tehseen hassan                   | ISBN: 93-8885-39-X<br>Edition: 2020<br>P: 112-144    | Publisher: Namit Wasan<br>(Discovery Publishing House) |
| 3. | Name of Book   | Chapter No. 1   | Authors   | Publisher  |  |
|    | Medicinal and Nutritional Values of Plants               | Rauvolfia Serpintinal: Pharmacological and Therapeutic Aspects  | <u><b>Showkat Ahmad Bhat,</b></u><br>Bilal Ahmad Mir, Muneeb U Rahman, Insha Amin, Bilal Ahmad Sheikh | ISBN: 978-93-5056-883-5<br>Edition: 2017<br>P: 19-30 | Publisher: Namit Wasan<br>(Discovery Publishing House) |
| 4. | Name of Book   | Chapter No. 1   | Authors   | Publisher  |  |
|    | Medicinal and Nutritional Values of Plants               | Datura as valuable Medicinal Plant and Pharmacological and Toxicological Aspects of Datura Stramonium L | <u><b>Showkat Ahmad Bhat,</b></u><br>Sabhiya Majid, Tehseen Hassan, Hilal Ahmad Wani, N.A. Naikoo     | ISBN: 978-93-5056-883-5<br>Edition: 2017<br>P: 1-19  | Publisher: Namit Wasan<br>(Discovery Publishing House) |
| 5. | Name of Book   | Chapter No. 2   | Authors   | Publisher  |  |
|    | Forest and Biodiversity Conservation                     | Biotechnological approaches for biodiversity conservation and its impacts on biodiversity               | <u><b>Showkat Ahmad Bhat,</b></u><br>Mashooq Ahmad Dar, Tehseen Hassan, Hilal Ahmad Wani              | ISBN: 978-93-5056-873-6<br>Edition: 2017<br>P: 27-40 | Publisher: Namit Wasan<br>(Discovery Publishing House) |
| 6. | Name of Book   | Chapter No. 5   | Authors   | Publisher  |  |
|    | Agro-Biodiversity Conservation & Sustainable Development | Medicinal plants and there potential anticancer activity  | <u><b>Showkat Ahmad Bhat,</b></u><br>Manzoor R Mir<br>Hilal Ahmad Wani<br>Sabiya Majid                | ISBN: 978-93-5056-782-1<br>Edition: 2016<br>P: 65-88 | Publisher: Namit Wasan<br>(Discovery Publishing House) |
| 7. | Name of Book   | Chapter No. 3   | Authors   | Publisher  |  |
|    | Conservation and Cultivation of Medicinal Plants         | Pharmacological and Phytochemical Profile of Eclipta alba (L.) as the valuable renowned medicinal plant | <u><b>Showkat Ahmad Bhat,</b></u><br>Sheikh Bilal, Ishraq Hussain, Ahmad Arif Reshi, Manzoor R Mir    | ISBN: 978-93-5056-740-1<br>Edition: 2015<br>P: 26-39 | Publisher: Tilak Wasan<br>(Discovery Publishing House) |
| 8. | Name of Book   | Chapter No. 1 to 8  | Authors   | Publisher  |  |



|     |  |   |  |   |   |
|-----|--|---|--|---|---|
| 9.  | Key concepts<br>Cervical cancer                          | <ul style="list-style-type: none"> <li>• Cancer overview</li> <li>• Cervical cancer-overview</li> <li>• Biology and etiology of cervical cancer</li> <li>• Epidemiology</li> <li>• Cervical Cancer risk factors</li> <li>• Screening and prevention of cervical cancer</li> <li>• Role of Awareness generation in prevention of cervical cancer</li> <li>• HPV Vaccination</li> </ul> | 3<br>2<br>3<br><br>2<br>1<br><br>2<br><br>2<br><br>3   | ISBN: 978-1-73041-725-2<br>Edition: 2017                          | Publisher : Sara Book Publications                  |
| 10. | <b>Name of Book</b>                                      | <b>Chapter No. 3 &amp; 4</b>  | <b>Authors</b>   | <b>Publisher</b>  |   |
| 11. | Nutraceuticals and pharmaceuticals from medicinal plants | 3: Valuable approaches, important concerns and Significance of medicinal plant conservation<br><br>4: Scenario of cancer and medicinal plants as a source of its treatment  | <b><u>Dr. Showkat Ahmad Bhat</u></b> , Professor Sabhiya Majid, Dr. Hilal Ahmad Wani, Dr. Tehseen Hassan, Nisar Ahmad Naikoo<br><br><b><u>Dr. Showkat Ahmad Bhat</u></b> , Prof. Sabhiya Majid, Dr. Tehseen Hassan | ISBN: 93-86841-55-X<br>Edition: 2018<br>P: 39-72<br><br>P: 98-119 | Publisher: Namit Wasan (Discovery Publishing House) |

## Research/Review Publications

| S. NO | Title   | Journal name   | All the author's name as appeared in the journal   | Volume / Issue | Year | ISSN No/DOI   |
|-------|---|--|--|----------------|------|---|
| 1.    | Role of pancreatic and inflammatory markers in freshly diagnosed t2dm patients of kashmir valley  | International Journal of Recent Scientific Research      | Javid Ahmad Bhat, Himanshu Tripathi, Sabhiya Majid, Masood Tanveer, <b><u>Showkat Ahmad Bhat</u></b>                     | 11/8           | 2020 | 0976-3031   |
| 2.    | Study on central obesity in newly diagnosed diabetes mellitus patients of Kashmir valley: a prospective study   | Journal of Advanced Medical and Dental Sciences Research | Javid Ahmad Bhat, Sabhiya Majid, Himanshu Tripathi, Masood Tanveer, <b><u>Showkat Ahmad Bhat</u></b> , Haamid Bashir     | 8/6            | 2020 | 2321-9599   |
| 3.    | Role of inflammatory mediators (TNF- $\alpha$ , IL-6, CRP), biochemical and hematological parameters in type 2 diabetes mellitus patients of Kashmir, India | Medical Journal of the Islamic Republic of Iran (MJIRI)  | Haamid Bashir, <b><u>Showkat Ahmad Bhat</u></b> , Sabhiya Majid, Rabia Hamid, Rakesh K Koul, Muneeb U Rehman, Insha Din, | 34/5.          | 2020 | <a href="http://mjiri.ium.s.ac.ir">http://mjiri.ium.s.ac.ir</a> |
| 4.    | Scenario of serum electrolyte, lipid and thyroid profile in Type II Diabetes Mellitus of Kashmir Valley India   | International Journal of Medical and Health Research     | Anjum Nisa, <b><u>Showkat Ahmad Bhat</u></b> , Sabhiya Majid   | 5/10           | 2019 | 2454-9142   |
| 5.    | Impact of catechol-O methyltransferase gene variants on methylation status of P16 and MGMT genes and their downregulation in colorectal cancer.             | Eur J Cancer Prev.                                       | Wani HA, Majid S, Bhat AA, Amin S, Farooq R, <b><u>Bhat SA</u></b> , Naikoo NA, Beigh MA, Kadla SA.                      |                | 2018 | doi: 10.1097/CEJ.0000000000000485                               |
| 6.    | Association of adiponectin gene polymorphism with type 2 diabetes and metabolic syndrome  | Translational Metabolic Syndrome Research                | Rabia Farooq, Sabhiya Majid, <b><u>Showkat Ahmad Bhat</u></b> , Shajrul Amin, Mohammad Hayat Bhat                        | 1              | 2018 | 2588-9303   |

|          |   |   |   |                                      |               |                                      |
|----------|---|---|---|--------------------------------------|---------------|--------------------------------------|
| 7.       | Assessment of serum electrolyte and lipid profile in hypothyroidism patients in kashmir valley india                          | International Journal of Current Advanced Research                      | Saleema Jabeen, <b>Showkat Ahmad Bhat</b> , Sabhiya Majid, Akbar Masood   | 7/7                                  | 2018          | 2319-6475                            |
| 8.       | Diagnostic utility of glycosyltransferase mRNA expression in gastric cancer   | Hematol Oncol Stem Cell Ther  | <b>Showkat Ahmad Bhat</b> , Manzoor Ur Rahman Mir , Sabhiya Majid, Tehseen Hassan,  | 11/3                                 | 2018          | 1658-3876                            |
| 9. 2 w s | Diagnostic utility of DAPK-gene promoter hypermethylation in gastric cancer   | International Journal of Science Inventions Today                       | Nissar Ahmad Naikoo, Javaid Ahmed, Hamidullah Naik, <b>Showkat Ahmad Bhat</b> , Hilal Ahmad Wani, Roohi Ashraf, Akbar Masood, Prof. Sabhiya | 6/5                                  | 2017          | 2319-5436                            |
| 10.      | BRCA1 Promoter Hypermethylation as an Early Diagnostic Tool for Breast Cancer   | Cancer Research Journal   | Tehseen Hassan, <b>Showkat Ahmad Bhat</b> , Sabhiya Majid, Manzoor R. Mir, Purnima Shrivastava  | 5/2                                  | 2017          | doi: 10.11648/j.ijccoc r.20170204.12 |
| 11.      | Study of Serum Levels of Trace Elements (Selenium, Copper, Zinc, and Iron) in Breast Cancer Patients                          | International Journal of Clinical Oncology and Cancer Research          | Tehseen Hassan, Wasim Qureshi, <b>Showkat Ahmad Bhat</b> , Sabhiya Majid, Manzoor R. Mir, Purnima Shrivastava                               | 2/4                                  | 2017          | doi: 10.11648/j.ijccoc r.20170204.12 |
| 12.      | Role of Polymorphism in PLA2G7 Gene in Pathogenesis of Atherosclerosis in Patients of Kashmir Valley India                    | Cardiology and Cardiovascular Research                                  | Nazia, Tehseen Hassan, <b>Showkat Ahmad Bhat</b> , Ishraq Hussain, Muneeb U Rehman, Sabhiya Majid   | 1/2                                  | 2017          | doi: 10.11648/j.ccr. 20170102.16     |
| 13.      | Biochemical Profile and Genetic Polymorphism of MTHFR C677T in Risk of Type 2 Diabetes Mellitus                               | International Journal of Diabetes and Endocrinology                     | Mushtaq Ahmad Bhat, <b>Showkat Ahmad Bhat</b> , Sheikh Bilal Ahmad, Wasim Qureshi, Sabhiya Majid, Arif Ali                                  | 2/2                                  | 2017          | doi: 10.11648 /j.ijde.20 170202.1 3  |
| 14.      | Association of toll-like receptor 4 gene polymorphism with the severity of mastitis in crossbred dairy cattle                 | Applied Biological Research   | Razak Rahil, Hussain Ishraq, Dar Pervaiz A, Bashir S.M., <b>Bhat Showkat A</b> , Mir Manzoor R.   | 17/3                                 | 2015          | 0974-4517                            |
| 15.      | Status of some minerals and impact of promoter hypermethylation of DAP-K gene in gastric carcinoma patients of Kashmir valley | J. Mol. Biomark Diagn   | <b>Showkat Ahmad Bhat</b> , Iqra Reyaz, Sonallah, Falaqueul Afshan, Ahmad Arif Reshi, Muneeb U Rehman, Manzoor R Mir, Sabhiya Majid         | doi.org/10 .4172/215 5- 9929.C1.0 26 | 2015          | DOI: 10.4172/ 2155- 9929.100 0339    |
| 16.      | Resistance status of sheep breeds to haemonchus contortus reared in kashmir valley india                                      | International Journal of Agricultural sciences and Veterinary medicine. | <b>Showkat Ahmad Bhat</b> , Manzoor R Mir, S. bilal I, Ishraq Hussain, Ahmad Arif Reshi, Muneeb U Rahman                                    | 8/ 6                                 | 2014          | 2075-423X                            |
| 17.      | Environmental Factors in Etiology of Gastric Cancer.  | Advances in Biochemistry  | <b>Showkat Ahmad Bhat</b> , Manzoor R. Mir, Sabhiya Majid, Muneeb U. Rehman,  | 3/ 5                                 | 2015          | 2329-0862                            |
| 18.      | Zingerone protects against cisplatininduced oxidative damage in the jejunum of Wistar rats                                    | Oriental Pharmacy and Experimental Medicine                             | Muneeb U. Rehman, Bilal Ahmad, Ahmad Arif, Saiema Rasool, <b>Showkat Ahmad Bhat</b> , Sumaira Bashir,                                       | DOI 10.1007/s 13596- 015-0187- 5     | 2015          | 1598-2386                            |
| 19.      | The lipid peroxidation and antioxidant status of type 2 diabetic patients in Kashmir (India)                                  | International Journal of Diabetes in Developing Countries               | Tabassum Rashid, <b>S. A Bhat</b> , Mohd UrfanWani, Sabhiya Majid & Iffat Hassan  | 35/4                                 | November 2015 | 0973-3930                            |
| 20.      | Evaluation of the antioxidant defense status in psoriasis   | Iranian Journal of Dermatology  | Sajjad Hussain, Iffat Hassan, Sabiya Majeed, <b>Showkat A Bhat</b> , Hinah Altaf, Peerzada Sajad  | 17/4                                 | Aug. 2014     | 0021-082X                            |
| 21.      | The polymorphic role of MDM2 gene in breast cancer patients of Kashmir Valley India.  | International Journal of Innovative Research & Studies,                 | Farhana Khan, <b>Showkat Ahmad Bhat</b> , Ahmad ArifReshi, Manzoor R Mir, IshraqHussain, Sheikh Bilal,                                      | 3 / 7                                | July 2014     | 0019-5057                            |

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|-----|--|--|---|---|------------------|-------------|
|     |  |  | SabhiyaMajid,   |   |                  |             |
| 22. | Assessment of Prevalence of Parasitic Infection Reared in Kashmir Valley India.  | Journal of Animal Production Advances                                    | <b>Bhat A. S.</b> , Reshi A. A., Mir R. M., Husain I., Sheikh B. A. and Khan H. M.  | 4/5   | 2014             | 2251-7677   |
| 23. | Methylation Status of hMLH1 Gene in Colorectal Cancer Patients in Ethnic Population of Kashmir Valley                                      | International journal of medical research                                | Mashooq A Dar, <b>Showkat A Bhat</b> , Ahmad Arif, Hilal Ahmad Wani, Khalid B Dar, RoufMaqboo, SuhailAnees, Manzoor R Mir | ¼   | 4Oct-Dec 2013    | 2320-7159   |
| 24. | Healing potential of rheum emodi (rhubarb) root powder on excision wounds in rabbit. World journal of pharmacy and pharmaceutical sciences | World journal of pharmacy and pharmaceutical sciences                    | S. Bilal, <b>S. A. Bhat</b> , A. A. Ahanger, I. Hussain, S. P. Ahmad, M. R. Mir   | 3/3   | February 2014    | 2278 – 4357 |
| 25. | Lipoprotein status in patients with thyroid abnormalities in Kashmir, located in northern India.   | International research journal for intellectual science and management   | Tehseen Hassan, <b>S. A Bhat</b> , Manzoor R Mir, S. Majid  | 5   | January 2014     |             |
| 26. | Genetic Polymorphism in the Estrogen Receptor $\alpha$ Gene and Risk of Breast Cancer in Kashmiri population in India.                     | International journal of informative & futuristic research               | Tehseen Hassan, Suhail Anees, <b>S. A Bhat</b> , Ahmad Arif Reshi, Athar Ali, Manzoor R Mir, Sabhiya Majid                | 1/5   | January 2014     | 2347-1697   |
| 27. | Methylation profile of promoter region of p16 gene in colorectal cancer patients of kashmir valley.  | Journal of biological regulators & homeostatic agents                    | H.A.Wani, M.A.Beigh, S. Amin, A.A. Bhat, <b>S. Bhat</b> , H. Khan, Masood, S. Majid                                       | 27/2  | 2013             | 0393-974X   |
| 28. | A study on the antioxidant defense system of psoriasis patients in the ethnic population of Kashmir-India                                  | Comparative Clinical Pathology   | <b>Showkat Ahmad Bhat</b> , Bilal Ahmad Bhat, Manzoor Ahmad Khan, Sabhiya Majid, Manzoor R. Mir, Athar Ali                | DOI 10.1007/s 00580-012-1649-5.   | 7 November 2012, | 1618-5641   |
| 29. | Serum lipid profile of breast cancer patients in Kashmiri population   | Journal of Investigational Biochemistry                                  | <b>Showkat Ahmad Bhat</b> , Manzoor R Mir, Sabhiya Majid  | <a href="http://jib.scopemed.org">http://jib.scopemed.org</a>                                     | 25 November 2012 | 2231-       |
| 30. | Relationship between the levels of Serum Thyroid Hormones and the Risk of Breast Cancer  | Journal of Biology, Agriculture and Healthcare                           | Athar Ali1, Manzoor R Mir, Sumira Bashir, Tehseen Hassan, <b>Showkat A Bhat</b>   | ½   | 2011             | 2225-093X   |
| 31. | Study of lipid profile in patients with thyroid dysfunction and clinical correlation in the ethnic population of Kashmir.                  | MGIM   | Majid S, <b>Bhat S. A.</b> , Tehseen Hassan, Ather Ali  | 15/1  | 2010             | -----       |
| 32. | Coronavirus disease-2019 and its current scenario – A review   | Clinical eHealth   | <b>Showkat Ahmad Bhat</b> ↑, Gurbinder Singh, Waseem F. Bhat, Kumudini Borole, Ashraf Ali Khan                            | <a href="https://doi.org/10.1016/j.ceh.2021.09.002">https://doi.org/10.1016/j.ceh.2021.09.002</a> | 2021             | 67–73       |
| 33. | Coronavirus Disease-2019   | Journals of intensive and critical care                                  | <b>Showkat Ahmad Bhat</b>   | DOI: 10.36648/2471-8505.6.3.10  | 2020             | 2471-8505   |
| 34. | Managing the COVID-19 Pandemic: Research Strategies Based on the Evolutionary and Molecular Characteristics of Coronaviruses               | SN Comprehensive Clinical Medicine                                       | Sabhiya Majid, Rabia Farooq, Mosin S. Khan, Samia Rashid, <b>Showkat A. Bhat</b> , Hilal A. Wani & Waseem Qureshi         | DOI 10.1007/s 42399-020-00457-z   | 2020             | 2523-8973   |
| 35. | Novel Coronavirus 2019 (COVID-19) Out-break: A Review  | EC clinical and medical case reports                                     | <b>Showkat Ahmad Bhat</b> Sabhiya Majid, Azher Arafah and Muneeb U Rehman   | 3/7   | 2020             | E Cronicon  |
| 36. | MicroRNAs and its emerging role as breast cancer diagnostic marker- A review   | Advances in Biomarker Sciences and Technology                            | <b>Showkat Ahmad Bhat</b> , Sabhiya Majid, Tehseen Hassan   | 1/5   |                  | 1-2         |
| 37. | Scenario and future prospects of microRNAs in gastric cancer: A Review   | Iranian Journal of Basic Medical Sciences                                | <b>Showkat Ahmad Bhat</b> , Sabhiya Majid, Muneeb U Rehman  | 22  |                  | 2008-3874   |
| 38. | Heavy metal toxicity and their harmful effects on living organisms – a review  | International Journal of Medical Science and Diagnosis Research (IJMSDR) | <b>Showkat Ahmad Bhat</b> , Tehseen Hassan, Sabhiya Majid   | 3/1   |                  | 106-122     |



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|-----|---|---|---|-----|------|-----------|
| 39. | Diagnostic Utility of miRNAs in Cancer  | Multidisciplinary Cancer Investigation              | <b>Showkat Ahmad Bhat,</b> Sabhiya Majid, Muneeb U Rehman   | 2/3 |      | 5-15      |
| 40. | Scenario of hypothyroidism and its recent advances in the diagnosis and management – a review | International Journal of Recent Scientific Research | Saleema Jabeen, <b>Showkat Ahmad Bhat,</b> Sabhiya Majid, Nissar Ahmad Naikoo, Rabia Farooq, Sheikh Ishaq, Shajrul Amin | 9/3 | 2018 | 0976-3031 |
| 41. | Adipocytokines: Unravelling the Missing Link in Diabetes and Metabolic Syndrome               | MOJ Biology and Medicine                            | Sabhiya Majid, Rabiya Farooq, <b>Showkat Ahmad Bhat</b>   | 2/3 | 2017 | 2574-9722 |
| 42. | Environmental Pollution as Causative Agent for Cancer-A Review                                | Cancer Clinical Research Reports                    | <b>Showkat Ahmad Bhat,</b> Tehseen Hassan, Sabhiya Majid, Roohi Ashraf, Sonallah Kuchy                                  | 1/1 | 2017 | -----     |

## AWARDS AND HONORS

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| 2020 | Grant awarded by SERB, New Delhi for organizing three days online National seminar on “Public Health concerns-need of the hour in hilly Doda area of Jammu & Kashmir (UT) India” Ref. <b>File No: SSY/2020/000007, Dated: 15 Jan. 2020</b>  |
| 2019 | Grant awarded by Indian Council of Medical Research New Delhi (ICMR) for organizing Workshop, <b>“Biochemical laboratory techniques” Ref: 3/1/3/Clinical Training/HRD/2019 (76), Dated: 15/10/2019</b>  |
| 2017 | Awarded meritorious research fellowship of Research Associateship under <b>RA-3</b> Scheme of council of scientific and industrial research human resource development group (CSIR) Indian. <b>File No.: 09/1096(0003) 2K17 and Dated: 31/03/2017.</b>  |
| 2015 | Awarded Travel grant by Department of Science and Technology J & K (DST),Govt. of India to attends, DBT, DSIR/CSIR and VIBHA sponsored “India International Scientific Festival 2015” (4th to 8th December 2015) at Indian Institute of Technology, New Delhi (IIT).  |
| 2015 | Best Oral presentation Award. Environmental factors in etiology of gastric cancer,( <b>OY-3A</b> ) National Conference “BIOCME, 9-10th may 2015” Advances In Biochemical & Molecular Diagnostics: Recent Research Trends, Organized& hosted by Department of Biochemistry, Government Medical College Srinagar, Research Centre-University of Kashmir). |
| 2014 | Awarded Travel grant by Department of Science and Technology J & K (DST),Govt. of India to attend Refresher course on update of intellectual property rights (IPRs) 10-11 June, Organized by Haryana State Council for Science and Technology sponsored by Department of Science & Technology, Government of India.                                     |
| 2014 | Awarded Travel grant by Indian Council of Medical Research New Delhi (ICMR), Govt. of India to attend “101 <sup>th</sup> Indian Science Congress at Jammu.  |
| 2013 | Royal College of Radiologists Ross Prize entrants: RCR6: A study of Methylation status of hMLH1 gene in colorectal cancer patients of Kashmir. 2013 NCRI Cancer Conference. 3 - 6 November 2013. The BT Convention Centre Liverpool UK, conference.ncri.org.uk.   |
| 2013 | Awarded meritorious research fellowship under <b>SRF</b> Scheme of Indian Council of Medical Research New Delhi (ICMR). <b>File. No.: 3/2/186/2013/NCD – III and Dated: 26/12/2013.</b>   |
| 2013 | Awarded Travel grant by Department of Science and Technology J & K (DST), Govt. of India to attend “100 <sup>th</sup> Indian Science Congress at Kolkata.   |