

Major Achievements of the Department from 2012 to 2017

Awards /recognitions received at the national and international level

- Dr. Peer Abdul Haseeb Shah received Early Career Research Award (ECR/2016/000463) funded by SERB.
- Post-doctoral fellows : Dr Manzoor Ahmad Mir, two years Postdoctoral Research fellow at Majmaah University KSA.
- Women Scientist (WOS-A): Miss Bisma Malik joined as WOS-A in the year 2017.
- National Post Doc Fellow: Miss Arifa Jan Joined as NPDF in the year 2017

Books/book chapters/research papers/e-contents published from 2012 to 2017

20 International papers Published during the assessment period.

Number of research papers per teacher in the Journals notified on UGC website during the last five years (Academic years 2012 - 2017)

| Title of paper | Department | Name of the author/s | Department of the teacher | Name of journal | Year of publication | ISBN/ISSN number |
|--|--------------|---|---------------------------|---|---------------------|--------------------|
| Dr Manzoor Ahmad Mir (Assistant Professor) | | | | | | |
| Innate-effector immune response elicitation against tuberculosis through Anti-B7-1 (CD80) and Anti-B7-2 (CD86) signaling in macrophages. | Bioresources | Manzoor A Mir , Raid S Albaradie and Agrewala JN. | Bioresources | International Journal of Biology Pharmacy and allied Sciences | 2013 | ISSN No. 2277-4998 |
| Tuberculosis time bomb a global emergency: urgent need for alternative vaccines | Bioresources | Manzoor A Mir and Raid S Albaradie | Bioresources | Majmaah J. Health Sciences | 2013 | ISSN: 1658-645X |
| Hypersensitive allergic reactions are caused by Pollen abundantly found in air during the spring and autumn seasons | Bioresources | Manzoor A Mir , Raid S Albaradie | Bioresources | Int. J. Pure App. Biosciences | 2013 | ISSN: 23207051. |
| Inflammation and anti-inflammatory strategies in stroke | Bioresources | Manzoor A Mir and Raid S Albaradie | Bioresources | World Journal of Pharmaceutical Research | 2014 | ISSN 2277-7105 |
| Modulation of inflammatory and | Bioresources | Manzoor A Mir Abdul R Alharbi and Raid S Albaradie | Bioresources | International Journal of | 2014 | ISSN No. 0975-833X |

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| oxidative mechanisms by Gingko biloba extract in an in vitro murine model of ischemia to augment neuroprotection and cellular survival | | | | Current Research | | |
| TNF Receptor Modulation by Gentiana Extracts Acts as Neuroprotective Mechanism in Stroke by Enhancing Cellular Survival | Bioresources | Manzoor A Mir | Bioresources | Stroke | 2014 | ISSN No. 0039-2499 (p) 1524-4628 (w) e26 (e259-e298) |
| Inflammatory Mechanisms as Potential Therapeutic Targets in Stroke | Bioresources | Manzoor A Mir and Raid S Albaradie | Bioresources | Advances in Neuroimmune Biology | 2015 | ISSN No. 1878-948X (P) 1878-9498 (O) |
| Effect of Supine Versus Semi-Fowler's Position on Hemodynamic stability of patients with Head injury | Bioresources | Manzoor A Mir Raid S Albaradie Amal A Otaibi, and Jehan Y Elrazkey | Bioresources | <i>World Journal of Pharmaceutical Research</i> | 2015 | ISSN No. 2277-7105 |
| ¹²³ I-FP-CIT SPECT imaging, clinical diagnosis of common types of dementia and contribution of ischemia to brain damage | Bioresources | Marta Mila, Marina Garriga, Manzoor A Mir , Raid Al-Baradie, Sonia et al. | Bioresources | <i>Frontiers in Systems Neuroscience</i> | 2015 | ISSN No. eISSN-1662-5137 |
| BAD, a Proapoptotic Protein, Escapes ERK/RSK Phosphorylation in Deguelin and siRNA-Treated HeLa Cells | Bioresources | Hafeez S, Urooj M, Saleem S, Gillani Z, Shaheen S, Qazi MH, Manzoor A Mir et al. | Bioresources | PLoS ONE | 2016 | ISSN No.s : e0145780. ISSN No. eISSN-1932-6203 |
| Dr Reiaz Ul Rehman (Assistant Professor) | | | | | | |
| Characterization of Actinomycetes and Trichoderma spp. for cellulase production utilizing crude substrates by response surface methodology | Bioresources | Tanveer Pirzadah, Shashank Garg, Joginder Singh, Ashish Vyas, Manish Kumar, Naseem Gaur, Madhu Bala, Reiaz Ul Rehman , Ajit Varma, Vivek Kumar and Manoj Kumar. | Bioresources | Springer Plus | 2014 | 2193-1801 |
| Ion and Lipid signaling in apical growth-a dynamic machinery responding to environmental cues. | Bioresources | Rui Malho, Susana Serrazina, Laura Saavedra, Fernando Vaz Dias, Reiaz Ul Rehman | Bioresources | Frontiers in Plant Science | 2015 | 1664-462X |
| Influence of various parameters on cellulase and xylanase production by different strains of <i>Trichoderma species</i> . | Bioresources | Tanveer Bilal, Bisma Malik, Reiaz ul Rehman , Manoj Kumar | Bioresources | Austin Journal of Analytical Chemistry and Pharmaceutical Science | 2015 | 2381-8913 |
| Metabolite profiling of tartary buckwheat - An underutilized | Bioresources | Tanveer Bilal Pirzadah, Bisma Malik, Inayatullah Tahir, Reiaz Ul Rehman | Bioresources | Journal of phytology | 2016 | 2075-6240 |

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| neutraceutical crop of Kashmir Himalaya | | | | | | |
| Metabolite Fingerprinting and Antioxidant Potential of Tartary Buckwheat- an Underutilized Pseudocereal crop from Kashmir Region | Bioresources | Tanveer Bilal Pirzadah, Bisma Malik, Inayatullah Tahir, Mohammad Irfan Qureshi, Reiaz Ul Rehman | Bioresources | Free Radicals and Antioxidants | 2016 | 2231-2536 |
| Vivipary in <i>Fagopyrum esculentum</i> . Folia | Bioresources | Tanveer Bilal Pirzadah, Bisma Malik, Inayatullah Tahir, Reiaz ul Rehman | Bioresources | Biologica ET Geologica. | 2016 | 2335-2914 |
| Phytochemical studies on <i>Cichorium intybus</i> L. (chicory) from Kashmir Himalaya using GC-MS. | Bioresources | Bisma Malik, Tanveer Bilal Pirzadah, Inayatullah Tahir, Malik Zainul Abdin, Reiaz Ul Rehman | Bioresources | Journal of Pharmacy Research. | 2016 | 00974694, 09746943 |
| Dr Peer Abdul Haseeb Shah (DST-INSPIRE Faculty) | | | | | | |
| Novel Role of a Family of Major Facilitator Transporters in Biofilm Development and Virulence of <i>Candida albicans</i> . | | Abdul Haseeb Shah , Ashutosh Singh, Sanjiveeni Dhamgaye, Neeraj Chauhan, Korivi Jyothiraj Suneetha, Rupinder Kaur, Pranab Mukherjee, Jyotsna Chandra, Mahmoud A. Ghannoum, Dominique Sanglard, Shyamal K. Goswami and Rajendra Prasad. | Bioresources | Biochemical Journal | 2014 | Print ISSN: 0264-6021 Online ISSN: 1470-8728 |
| Mutational Analysis of Intracellular Loops Identify Cross Talk with Nucleotide Binding Domains of the Yeast ABC Transporter Cdr1p. | | Abdul Haseeb Shah , Manpreet Kaur Rawal, Sanjiveeni Dhamgaye, Sneha Sudha Komath, Ajay Kumar Saxena, and Rajendra Prasad | Bioresources | <i>Scientific Reports</i> | 2015 | ISSN 2045-2322 (online) |
| ABC transporter Cdr1p harbors charged residues in the intracellular loop and nucleotide-binding domain critical for protein trafficking and drug resistance. | | Abdul Haseeb Shah , Atanu Banerjee, Manpreet Kaur Rawal, Ajay Kumar Saxena, Alok Kumar Mondal and Rajendra Prasad. | Bioresources | FEMS Yeast Research | 2015 | Online ISSN 1567-1364 Print ISSN 1567-1356 |
| MFS transporters of <i>Candida</i> species and their role in clinical drug resistance. | | Archana Kumari, Abdul Haseeb Shah , Rajendra Prasad | Bioresources | FEMS Yeast Research | 2016 | Online ISSN 1567-1364 Print ISSN 1567-1356 |
| In Vitro Effect of Malachite Green on <i>Candida albicans</i> Involves Multiple Pathways and Transcriptional Regulators UPC2 and STP2. | | Sanjiveeni Dhamgaye, Frederic Devaux, Raman Manoharlal, Patrick Vandeputte, Abdul Haseeb Shah , Ashutosh Singh, Corinne Blugeon, Dominique Sanglard, and Rajendra Prasad | Bioresources | <i>Antimicrob Agents Chemother</i> | 2012 | ISSN: 0006-291X |
| Alanine scanning of all cysteines and | | Rajendra Prasad, Abdul Haseeb Shah , Hina Sanwal, Khyati | Bioresources | <i>Biochem Biophys Res</i> | 2012 | ISSN: 0006-291X |

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| construction of a functional cysteine-less Cdr1p, a multidrug ABC transporter of <i>Candida albicans</i> . | | Kapoor. | | <i>Commun</i> | | |
| Newly identified motifs in <i>Candida albicans</i> Cdr1 protein NBDs are PDR subfamily-specific and functionally asymmetric | | Manpreet Kaur Rawal, Atanu Banerjee, Abdul Haseeb Shah, Mohammad Firoz Khan, Sobhan Sen, Ajay Kumar Saxena, Brian C. Monk, Richard D. Cannon, Rakesh Bhatnagar, Alok Kumar Mondal & Rajendra Prasad | Bioresources | <i>Scientific Reports</i> | 2016 | ISSN 2045-2322 (online) |

06 International Books Published during the assessment period

Number of books and chapters in edited volumes / books published in national/international conference-proceedings per teacher during the last five years

(Academic years 2012 - 2017)

| Name of the teacher: Title of the paper | Department | Title of the book published: Name of the author/s: Title of the proceedings of the conference | Name of the publisher: National / International | National / international : ISBN/ISSN number of the proceeding | Year of publication: |
|--|--------------|--|---|---|----------------------|
| Dr Manzoor Ahmad Mir (Assistant Professor) | | | | | |
| <i>Dr Manzoor Ahmad Mir: (Book) Natural Herbs in the Prevention and treatment of Stroke</i> | Bioresources | <i>Natural Herbs in the Prevention and treatment of Stroke: Manzoor A Mir and Raid S Albaradie</i> | Nova Science Publishers New York USA | International ISBN: 978-1-63483-555-8 | 2015 |
| <i>Dr Manzoor Ahmad Mir: (Book) Developing Costimulatory Molecules for Immunotherapy of Diseases</i> | Bioresources | <i>Developing Costimulatory Molecules for Immunotherapy of Diseases: Manzoor A Mir</i> | <i>Elsevier Publishers USA</i> | International ISBN (Print) 9780128026755: ISBN (ebook) 978-0-12-80-2585-7 | 2015 |
| <i>Dr Manzoor Ahmad Mir: (Book) Recent Advances in Stroke</i> | Bioresources | Recent Advances in Stroke Therapeutics: Manzoor A. Mir, | Nova Science Biomedical Inc Publishers USA | International ISBN: 978-1-62808-521-4 | 2014 |

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|---|--------------|--|--|---|------|
| Therapeutics | | Raid S Albaradie and Malik D Alhusainwi | | (P), e-book ISBN: 978-1-63117-754-5 | |
| <i>Dr Manzoor Ahmad Mir: (Book) Costimulation Immunotherapy for Autoimmunity, Transplantation and Lymphomas</i> | Bioresources | <i>Costimulation Immunotherapy for Autoimmunity, Transplantation and Lymphomas: Manzoor A Mir, Raid S Albaradie and Abdul R Alharbi</i> | <i>Nova Science Publishers USA</i> | International ISBN:978-1-62808-519-8 | 2013 |
| Dr Reiaz Ul Rehman (Assistant Professor) | | | | | |
| Dr Reiaz Ul Rehman (Book) | Bioresources | <i>“Plant Signalling: Understanding the molecular cross talk”.</i> | Springer Science+Business Media, LLC; 233 Spring Street, New York, NY 10013,USA | ISBN 978-81-322-1542-4 online, ISBN 978-81-322-1541-7 | 2013 |
| <i>Unravelling Salt Stress in Plants through Proteomics In Salt stress in plants: Signalling, Omics and Adaptations.</i> | Bioresources | Hakeem, K.R., Chandna, R., Rehman, R.U., Tahir, I and Iqbal M <i>In: Salt stress in plants: Signalling, Omics and Adaptations. (2012), Ed. Parvaiz Ahmad, Azooz MM, Prasad M.N.V</i> | Springer science + Business Media LLC, NY,USA. | ISBN 978-1-4614-6107-4. | 2012 |
| Variability in <i>Fusarium</i> Species causing wilt disease in crops: A transcriptomic approach to characterize dialogue between host and pathogen. | Bioresources | Rehman, R.U., Hakeem, K.R., Tahir I, Teli, M.A <i>In: Crop Improvement New Approaches And Modern Techniques. Ozturk M et al., (eds)</i> | Springer science + Business Media LLC, NY, USA | ISBN 978-1-4614-7028-1(e-book); ISBN 978-1-4614-7027-4(Hard cover). | 2013 |
| Lignocellulosic biomass: As future alternative for bioethanol production. | Bioresources | Tanveer Bilal Pirzadah, Bisma Malik, Manoj Kumar, Reiaz Ul Rehman. Edited volume on “Biomass and Bioenergy: Processing, Properties and Applications”. | Publisher: Springer Science+Business Media, LLC; 233 Spring Street, New York, NY 10013, USA. | ISBN 978-3-319-07578-5 (ebook) ISBN 978-3-319-07577-6 | 2013 |
| Phytoremediation: An | Bioresources | Tanveer Bilal Pirzadah, | Elsevier | ISBN | |

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| eco-friendly green technology for pollution prevention, control and remediation. | | Bisma Malik, Inayatullah Tahir, Manoj Kumar, Reiaz Ul Rehman In: Soil remediation and plants | | 9780127999371 | 2014 |
| SNARE proteins as signalling elements. | Bioresources | Reiaz ul Rehman , Gian-Pietro Di Sanse bastiano <i>In: Plant Signalling: Understand molecular cross talk.</i> | Springer Science+Business Media, LLC; 233 Spring Street, New York, NY 10013, USA. | ISBN 978-81-322-1542-4 online, ISBN 978-81-322-1541-7 | 2013 |
| Plant Rab GTPases in membrane trafficking and signaling | Bioresources | Reiaz ul Rehman , Gian-Pietro Di Sansebastiano <i>In: Plant Signalling: Understand molecular cross talk”.</i> | Springer Science+Business Media, LLC; 233 Spring Street, New York, NY 10013, USA | ISBN 978-81-322-1542-4 online, ISBN 978-81-322-1541-7. | 2013 |
| Cyclic nucleotide gated channels- Essential signalling components in plants for fertilization and immunity responses | Bioresources | Reiaz ul Rehman <i>“Plant Signalling: Understand molecular cross talk”.</i> | Springer Science+Business Media, LLC; 233 Spring Street, New York, NY 10013, USA | ISBN 978-81-322-1542-4 online, ISBN 978-81-322-1541-7 | 2013 |
| Recent trends and approaches in phytoremediation | Bioresources | Bisma Malik, Tanveer Bilal Pirzadah, Inayatullah Tahir, Reiaz Ul Rehman | Springer | 9780127999371 | 2014 |
| Biomass pellet technology: A green approach for sustainable development. | Bioresources | Bisma Malik, Tanveer Bilal Pirzadah, Sheikh Tajamul Islam, Inayatullah Tahir, Manoj Kumar, Reiaz Ul Rehman | Springer International. | 978-3-319-13846-6. | 2015 |
| Power Reservoirs of Jumble based Biomass in Asia. | Bioresources | Manoj Kumar, Pooja Bhadrecha, Tanveer Bilal Pirzadah, Bisma Malik, Reiaz Ul Rehman , Ram Prasad ,Umesh Chandra Pachouri Edited volume on “Agricultural biomass based potential material | Springer International. | ISBN: 978-3-319-13846-6. | 2015 |
| Phenomics Science: An integrated interdisciplinary approach for crop improvement. | Bioresources | Bisma Malik, Tanveer Bilal Pirzadah, Inayatullah Tahir, Imtiyaz Murtaza, Reiaz Ul Rehman | Apple Academic Press Inc. 9 Spinnaker Way Waretown, NJ 08758 USA. | 13:978-1-77188-455-6 | 2015 |
| Biomass pellet technology: A green approach for sustainable development. | Bioresources | Bisma Malik, Tanveer Bilal Pirzadah, Sheikh Tajamul Islam, Inayatullah Tahir , Manoj Kumar, Reiaz Ul Rehman Edited volume on “Agricultural biomass based | Springer International. | ISBN: 978-3-319-13846-6. | |

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| | | potential material” | | | 2015 |
| Cultivation, Agronomic practices and growth performance of Buckwheat. | Bioresources | Tanveer Bilal Pirzadah, Bisma Malik, Sikandar Farooq, Inayatullah Tahir, Reiaz Ul Rehman Edited vol. on “Molecular Breeding and Nutritional Aspects of Buckwheat | Elsevier | ISBN NO.:0128037148, 9780128037140 | 2016 |
| Tanveer Bilal Pirzadah, Bisma Malik, Inayatullah Tahir, Reiaz ul Rehman. | Bioresources | Buckwheat: An introspective and future perspective with reference to Kashmir Himalayas. | (Proceedings of International Symposium 21-25 Aug. 2013) . Slovenia | | 2013 |
| Mr. Tajamul Islam (Assistant Professor) | | | | | |
| Sheikh Tajamul Islam: Ethylene Signaling in Plants: Introspection" pp. 303-313. | Bioresources | <i>Plant signaling: Understanding the molecular crosstalk:</i> Ed. Hakeem, K. R., Rehman, R., Tahir, | Springer Science+Business Media, LLC; 233. Spring Street, New York, NY 10013, | International: USA. ISBN 978-81-322-1541, ISBN 978-81-322-1542-4. | 2013 |
| Sheikh Tajamul Islam: Biomass pellet technology: A green approach for sustainable development | Bioresources | Agricultural Biomass Based Potential Materials: Bisma Malik Tanveer Bilal Pirzadah Sheikh Tajamul Islam Inayatullah Tahir Manoj Kumar Reiaz ul Rehman | Springer | International ISBN: 9778-3-319-13846-6 | 2014 |
| Dr Peer Abdul Haseeb Shah (DST-INSPIRE Faculty) | | | | | |
| Abdul Haseeb Shah: Antifungals: Mechanism of Action and Drug Resistance. | Bioresources | Membrane Transport in Yeast. Advances in Experimental Medicine and Biology: Rajendra Prasad, Abdul Haseeb Shah , Manpreet Kaur Rawal | <i>Springer International Publishing Switzerland</i> ^{[[]]} | ISSN 0065-2598. Print/online ISBN 978-3-319-25302-2/978-3-319-25304-6. | 2016 |
| Abdul Haseeb Shah: Efflux Pump Proteins of Candida in Clinical Drug Resistance. | Bioresources | Membrane Transport in Yeast. Advances in Experimental Medicine and Biology: Rajendra Prasad, Manpreet Kaur Rawal, Abdul | <i>Springer International Publishing Switzerland</i> ^{[[]]} | ISSN 0065-2598. Print/online ISBN 978-3-319-25302-2/978-3-319- | 2016 |

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| | | Haseeb Shah | | 25304-6. | |
| Abdul Haseeb Shah: Mechanism of drug resistance in fungi and their significance in biofilms. | Bioresources | Antibiofilm Agents: From Diagnosis to Treatment and Prevention, Part I :Rajendra Prasad, Abdul Haseeb Shah , Sanjiveeni Dhamgaye. | <i>Springer Berlin Heidelberg</i> | Series ISSN 2014 1863-9607. Print/online ISBN 978-3-642-53832-2/ 978-3-642-53833-9. | |

25 e-contents developed by faculty members for undergraduate level

New Projects sanctioned to the faculties of the department

Projects details

1. Drug resistance in Fungi and the role of PTM : 35 Lacs
2. Clinical Drug Resistance strains of pathogenic candida: drug tolerance: 45 Lacs.
3. Cultivation, genetic diversity and active principal segregation of different accessions of *C.intybus* L (Chicory) growing in Kashmir Himalyas and Ladakh 20 Lacs
4. Self incompatibility studies in almond 30 Lacs

Inter-institutional collaborative projects and associated grants received

Collaboration with Sheri Kashmir Institute of Medical Sciences Soura Srinagar J&K. Project entitled "Clinical Drug Resistance strains of pathogenic candida:.....drug tolerance (45 Lacs aprox.)

Scholars Details

1. **Ms Bisma Malik** (Supervisor: Dr Reiaz Ul Rehman; Co-Supervisor: Prof. Inayatullah Tahir)
2. **Mr Tanveer Bilal Peerzada** (Supervisor: Dr Reiaz Ul Rehman; Co-Supervisor: Prof. Inayatullah Tahir)
3. **Mr Fayaz Ahmad Dar** (Supervisor: Dr Reiaz Ul Rehman; Co-Supervisor: Prof. Inayatullah Tahir).
4. **Mr. Sajad Ahmad Padder** (Supervisor: Dr Reiaz Ul Rehman; Co-Supervisor: Prof. Inayatullah Tahir).
5. **Ms. Asiya Ramzan** (Supervisor: Dr Reiaz Ul Rehman; Co-Supervisor: Prof. Inayatullah Tahir).
6. **Adil Rasool** (Supervisor: Dr Reiaz Ul Rehman; Co-Supervisor: Prof. Inayatullah Tahir)
7. **Wasifa** (Supervisor: Dr Reiaz Ul Rehman; Co-Supervisor: Prof. Inayatullah Tahir)
8. **Miss Mehak Majeed** (Supervisor: Dr Manzoor Ahmad Mir)
9. **Mr. Umar Mehraj** (Supervisor: Dr Manzoor Ahmad Mir)

Student details (from Tehmeena Madam 2012-2017)

Number of value-added courses imparting transferable and life skills offered during the last five years Academic years 2012 -2017

| Names of the value added courses with 30 or more contact hours | Department | No. of times offered during the same year | Total no. of students completing the course in the year |
|--|--------------|---|---|
| 2012 | | | |
| Biodiversity and Bioresources | Bioresources | 01 | 19 |
| Plant Resources | Bioresources | 01 | 19 |
| Animal Resources | Bioresources | 01 | 20 |
| Microbial Resources | Bioresources | 01 | 20 |
| Bioenergy and Biofuels | Bioresources | 01 | 20 |
| Biofertilizers, Biopesticides & Organic Farming | Bioresources | 01 | 20 |
| Biomedicine, Biocosmetics and Bioprospecting | Bioresources | 01 | 20 |
| Plant Resources and Biotechnology | Bioresources | 01 | 16 |
| Animal Cell and Tissue Technology | Bioresources | 01 | 16 |
| Microbial Technology | Bioresources | 01 | 16 |
| Bioindustries Trade and Policy Regulation | Bioresources | 01 | 16 |
| 2013 | | | |
| Resource Regeneration | Bioresources | 01 | 15 |
| Secondary Metabolites | Bioresources | 01 | 19 |
| Bioinformatics | Bioresources | 01 | 19 |
| Biostatistics and Biotechniques | Bioresources | 01 | 19 |
| 2014 | | | |
| Microbial Resources | Bioresources | 01 | 20 |
| Biodiversity and Bioresources | Bioresources | 01 | 19 |
| Biostatistics | Bioresources | 01 | 10 |
| Industrial Entomology | Bioresources | 01 | 14 |
| Biomedicine and Bioprospecting | Bioresources | 01 | 21 |
| Biofertilizers and Organic farming | Bioresources | 01 | 15 |
| Biocontrol and Biopesticides | Bioresources | 01 | 7 |
| Biomolecules | Bioresources | 01 | 18 |

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| Secondary Metabolite | Bioresources | 01 | 17 |
| Bioinformatics | Bioresources | 01 | 17 |
| Biostatistics and Biotechniques | Bioresources | 01 | 17 |
| Plant Resources and Biotechnology | Bioresources | 01 | 18 |
| Animal Cell and Tissue Technology | Bioresources | 01 | 18 |
| Microbial Technology | Bioresources | 01 | 18 |
| Bioindustries Trade and Policy Regulation | Bioresources | 01 | 18 |
| 2015 | | | |
| Cellular & Molecular Biology | Bioresources | 01 | 19 |
| Microbial Resources | Bioresources | 01 | 19 |
| Algal Resources | Bioresources | 01 | 19 |
| Human Health and Plant Diet | Bioresources | 01 | 19 |
| Inheritance Biology | Bioresources | 01 | 19 |
| Industrial Entomology | Bioresources | 01 | 22 |
| Bioresource Management | Bioresources | 01 | 18 |
| Organic Farming | Bioresources | 01 | 19 |
| Bioinformatics | Bioresources | 01 | 21 |
| Project Work | Bioresources | 01 | 21 |
| Microbial Technology | Bioresources | 01 | 21 |
| Bioresource Policy and Management | Bioresources | 01 | 21 |
| Human Health and Plant Diet | Bioresources | 01 | 21 |
| 2016 | | | |
| Cellular & Molecular Biology | Bioresources | 01 | 18 |
| Microbial Resources | Bioresources | 01 | 20 |
| Algal Resources | Bioresources | 01 | 19 |
| Human Health and Plant Diet | Bioresources | 01 | 17 |
| Inheritance Biology | Bioresources | 01 | 19 |
| Industrial Entomology | Bioresources | 01 | 20 |
| Bioresource Management | Bioresources | 01 | 21 |
| Organic Farming | Bioresources | 01 | 19 |
| Infectious Diseases and Human Health | Bioresources | 01 | 20 |
| Biological Interactions | Bioresources | 01 | 19 |
| Biomedicine & Bioprospecting | Bioresources | 01 | 19 |
| Biocontrol and Crop Management | Bioresources | 01 | 20 |

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|---------------------------|--------------|----|----|
| Biocosmetics | Bioresources | 01 | 19 |
| Bioinformatics | Bioresources | 01 | 19 |
| Term Work | Bioresources | 01 | 19 |
| Wood Resource Utilization | Bioresources | 01 | 23 |
| Bioindustries | Bioresources | 01 | 29 |
| Green Technology | Bioresources | 01 | 27 |
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Department/ Centre/ Directorate _____ Bioresources _____

Number of value-added courses imparting transferable and life skills offered during the last five years (Academic years 2012 -2017)

| Names of the value added courses with 30 or more contact hours | Department | No. of times offered during the same year | Total no. of students completing the course in the year |
|--|--------------|---|---|
| 2012 | | | |
| Biodiversity and Bioresources | Bioresources | 01 | 19 |
| Plant Resources | Bioresources | 01 | 19 |
| Animal Resources | Bioresources | 01 | 20 |
| Microbial Resources | Bioresources | 01 | 20 |
| Resource Regeneration | Bioresources | 01 | 20 |
| Bioenergy and Biofuels | Bioresources | 01 | 20 |
| Biofertilizers, Biopesticides & Organic Farming | Bioresources | 01 | 20 |
| Biomedicine, Biocosmetics and Bioprospecting | Bioresources | 01 | 20 |
| Biomolecules | Bioresources | 01 | 18 |
| Secondary Metabolite | Bioresources | 01 | 18 |
| Bioinformatics | Bioresources | 01 | 18 |
| Biostatistics and Biotechniques | Bioresources | 01 | 18 |
| Plant Resources and Biotechnology | Bioresources | 01 | 16 |
| Animal Cell and Tissue Technology | Bioresources | 01 | 16 |
| Microbial Technology | Bioresources | 01 | 16 |
| Bioindustries Trade and Policy Regulation | Bioresources | 01 | 16 |
| 2013 | | | |
| Biodiversity and Bioresources | Bioresources | 01 | 18 |
| Plant Resources | Bioresources | 01 | 18 |
| Animal Resources | Bioresources | 01 | 18 |
| Microbial Resources | Bioresources | 01 | 19 |
| Resource Regeneration | Bioresources | 01 | 15 |
| Bioenergy and Biofuels | Bioresources | 01 | 17 |
| Biofertilizers, Biopesticides & Organic Farming | Bioresources | 01 | 17 |
| Biomedicine, Biocosmetics and Bioprospecting | Bioresources | 01 | 17 |
| Biomolecules | Bioresources | 01 | 19 |
| Secondary Metabolites | Bioresources | 01 | 19 |

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|---|--------------|----|----|
| Bioinformatics | Bioresources | 01 | 19 |
| Biostatistics and Biotechniques | Bioresources | 01 | 19 |
| Plant Resources and Biotechnology | Bioresources | 01 | 20 |
| Animal Cell and Tissue Technology | Bioresources | 01 | 20 |
| Microbial Technology | Bioresources | 01 | 2 |
| Bioindustries Trade and Policy Regulation | Bioresources | 01 | 20 |
| 2014 | | | |
| Microbial Resources | Bioresources | 01 | 20 |
| Biodiversity and Bioresources | Bioresources | 01 | 19 |
| Biostatistics | Bioresources | 01 | 10 |
| Industrial Entomology | Bioresources | 01 | 14 |
| Biomedicine and Bioprospecting | Bioresources | 01 | 21 |
| Biofertilizers and Organic farming | Bioresources | 01 | 15 |
| Biocontrol and Biopesticides | Bioresources | 01 | 7 |
| Biomolecules | Bioresources | 01 | 18 |
| Secondary Metabolite | Bioresources | 01 | 17 |
| Bioinformatics | Bioresources | 01 | 17 |
| Biostatistics and Biotechniques | Bioresources | 01 | 17 |
| Plant Resources and Biotechnology | Bioresources | 01 | 18 |
| Animal Cell and Tissue Technology | Bioresources | 01 | 18 |
| Microbial Technology | Bioresources | 01 | 18 |
| Bioindustries Trade and Policy Regulation | Bioresources | 01 | 18 |
| 2015 | | | |
| Cellular & Molecular Biology | Bioresources | 01 | 19 |
| Microbial Resources | Bioresources | 01 | 19 |
| Algal Resources | Bioresources | 01 | 19 |
| Human Health and Plant Diet | Bioresources | 01 | 19 |
| Inheritance Biology | Bioresources | 01 | 19 |
| Industrial Entomology | Bioresources | 01 | 22 |
| Bioresource Management | Bioresources | 01 | 18 |
| Organic Farming | Bioresources | 01 | 19 |
| Bioinformatics | Bioresources | 01 | 21 |
| Project Work | Bioresources | 01 | 21 |
| Microbial Technology | Bioresources | 01 | 21 |
| Bioresource Policy and Management | Bioresources | 01 | 21 |

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| Human Health and Plant Diet | Bioresources | 01 | 21 |
| 2016 | | | |
| Cellular & Molecular Biology | Bioresources | 01 | 18 |
| Microbial Resources | Bioresources | 01 | 20 |
| Algal Resources | Bioresources | 01 | 19 |
| Human Health and Plant Diet | Bioresources | 01 | 17 |
| Inheritance Biology | Bioresources | 01 | 19 |
| Industrial Entomology | Bioresources | 01 | 20 |
| Bioresource Management | Bioresources | 01 | 21 |
| Organic Farming | Bioresources | 01 | 19 |
| Infectious Diseases and Human Health | Bioresources | 01 | 20 |
| Biological Interactions | Bioresources | 01 | 19 |
| Biomedicine & Bioprospecting | Bioresources | 01 | 19 |
| Biocontrol and Crop Management | Bioresources | 01 | 20 |
| Biocosmetics | Bioresources | 01 | 19 |
| Bioinformatics | Bioresources | 01 | 19 |
| Term Work | Bioresources | 01 | 19 |
| Wood Resource Utilization | Bioresources | 01 | 23 |
| Bioindustries | Bioresources | 01 | 29 |
| Green Technology | Bioresources | 01 | 27 |
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Alumni details

List the distinguished alumni of the department

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15. Mr. Zahoor (Officer in J&K Police) zahoorkp@gmail.com
16. Mr. Fayaz Ahmad (Bank Executive at J&K Bank) dfayaz5u@gmail.com

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Dr. Javed N Agrewala Chief Scientist CSIR-IMTECH Chandigarh (2015)

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Dr Manoj Prasad Scientist- E NIPGR JNU Campus New Delhi

Dr. Abid Hamid Dar Scientist E-1 CSIR-IIIM Canal Road Jammu

Placement of pass out students

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