University of Kashmir, Srinagar

Minutes of the meeting of Board of Research Studies in Biological Sciences held on 11-10-2017 at 11:00 a.m. in the Committee Room of the Administration Block.

Present:

01. *Prof. K. I. Andrabi* *(Chairman)*
    Vice-Chancellor
02. *Prof. Zafar A. Reshi*
    Dean Research
03. *Prof. Azra N. Kamili*
    Director, CORD & Dean, School of Biological Sciences
04. *Prof. Irshad Ahmad Nawchoo.*
    Nominee of Head, Deptt. of Botany
05. *Head, Deptt. of Biochemistry*
06. *Head, Deptt. of Zoology*
07. *Head, Deptt. of Biotechnology*
08. *Co-ordinator, Nanotechnology*

The Assistant Registrar (Research) was also present.

At the outset, Dean Research welcomed the members and requested Hon'ble Vice-Chancellor for his valuable introductory remarks. Hon'ble Vice-Chancellor desired that the quality of research should improve and efforts should be made to pursue such research themes that have direct relevance to society. After due deliberations it was felt that following be complied with:

1. The statutes governing Integrated Ph.D programme be followed in letter and spirit, particularly in respect of constitution of Research Progress Assessment Committee (RPAC) for assessment of work progress.
2. It should be ensured that the scholars maintain raw data which should be available on demand.
3. Scholars shall obtain Similarity Index Report from Nodal Officer (Librarian, Allama Iqbal Library) before applying for issuance of academic clearance.
4. An abridged one page synopsis that includes title, research questions/hypothesis/objectives and importance of work be included in the agenda, the detailed synopses be considered by the DRC and a copy of the same shall be kept available at the time of BORS.
5. Departments should explore possibility of co-supervisors for research scholars from premier Institutions such as IITs etc. It was strongly felt that co-supervision of only such teachers/scientists from outside the University should be sought/considered who bring certain expertise/experience that is not available in the University.
6. Heads of Deptts. shall arrange workshops for assessment of work problem/orientation to the scholars for preparation of synopsis.
7. Heads of Deptts/Deans of Schools shall ensure that there is no repetition in the topics chosen for research in the allied Centres/Deptts.

Subsequently agenda was taken up for discussion.

S/A Botany.

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BOTANY

Registration of Scholars to Ph.D programme on the basis of having qualified M.Phil from KU.

S.No.	Name of the Scholar	Name of Supervisor /Co-Supervisor	Proposed topic of research	Approved topic of research	Remarks
1.	Ms. Sabbi Jan Whole-time Ph.D Reg.No.16363-AW-2007	Dr. Aijaz Ahmad Wani Prof. Azra N. Kamili Prof. Inayatullah Tahir (Co-supervisor)	In vitro mutagenesis for genetic improvement of Buckwheat with special reference to economically important traits	In vitro mutagenesis for genetic improvement in economically important traits of buckwheat	Topic modified.
2.	Neelofar Majid Whole-time Ph.D Reg.No.22922-IC-2008	Prof. Irshad A. Nawchoo Prof. Zulfiqar Ali Bhat (Co-supervisor)	Morphological and phytochemical characterization of *Lavatera cashmeriana* Camb. and *Aralia cachemirica* Decne. in Kashmir Himalaya	Morphological and phytochemical characterization of *Lavatera cashmeriana* Camb. and *Aralia cachemirica* Decne. in Kashmir Himalaya	
3.	Afrozah Hassan Whole-time Ph.D Reg.No.14563-AW-2006	Prof. Irshad. A. Nawchoo Dr. Anzar A. Khuroo (Co-supervisor)	Studies on plant resource utilization in some aquatic ecosystems of Kashmir Himalaya	Studies on plant resource utilization in some aquatic ecosystems of Kashmir Himalaya	
4.	Saduf Nissar Whole-time Ph.D Reg.No.47127-W-2006	Prof. Irshad A. Nawchoo Prof. Zulfikar Ali Bhat (Co-supervisor)	Morphological and phytochemical characterization of *Skimmia anquetilia* N. P. Taylor and Airy Shaw and *Dictamnus albus* L. in Kashmir Himalaya	Morphological and phytochemical characterization of *Skimmia anquetilia* N. P. Taylor and Airy Shaw and *Dictamnus albus* L. in Kashmir Himalaya	

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5.	Iram Bashir Whole-time Ph.D. Reg.No.47482-W-2006	Prof. Zahoor Ahmad Kaloo Dr. Nahida Tun Nisa Chishti (Co-supervisor)	Development of *in vitro* techniques for mass propagation of *Bunium persicum* (Boiss.) B. Fedtsch growing in Kashmir Himalaya		HOD to ascertain from Jammu University whether or not work on the topic has been carried out. In case, work has been already carried out, the topic of research be redrafted and revised synopsis be routed through Dean of the School for final approval of the Dean Research.
6.	Manzoor-Ul- Haq Part-time Ph.D Reg.No.32850-S-97	Prof. Zafar A. Reshi Dr. Dalip Kumar Upreti (Co-supervisor)	Taxonomic and functional diversity of lichens along an altitudinal gradient in Kashmir Himalaya	Taxonomic and functional diversity of lichens along an altitudinal gradient in Kashmir Himalaya	Registration of the part-time scholar is subject to the fulfilment of following conditions: i) Production of length of service and NOC from parent Deptt. ii) Leave sanction order for mandatory residency period, from the parent Deptt.
7.	Rezwana Assad Whole-time Ph.D Reg.No.19454-NW-2007	Prof. Zafar Ahmad Reshi Dr. Irfan Rashid (Co-supervisor)	Molecular diversity of root associated ectomycorrhizal fungi of some conifers in Kashmir Himalaya, India	Molecular diversity of root associated ectomycorrhizal fungi of some conifers in Kashmir Himalaya, India	
8.	Sabreena Rashid Whole-time Ph.D Reg.No.47547-W-2006	Prof. Zahoor Ahmad Kaloo	Development of *ex-situ* conservation strategies for *Rheum webbianum* Royle in Kashmir Himalaya		It was reported that work has been carried out on *Rheum* under a major research project. In case, work has been already carried out, the topic of research be redrafted and revised synopsis be routed through Dean of the Sc[illegible] final approval of [illegible] Research.

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9.	Mahroofa Jan Whole-time Ph.D Reg.No.16236-AW-2007	Dr. Seema Singh Prof. Irshad Ahmad Nawchoo (Co-supervisor)	Studies on seed biology and *in vitro* propagation strategies of *Heracleum candicans* Wall.– an important medicinal plant of Kashmir Himalaya	Studies on seed biology and *in vitro* propagation strategies of *Heracleum candicans* Wall.– an important medicinal plant of Kashmir Himalaya	
10.	Farhana Maqbool Whole-time Ph.D Reg.No.25076-SP-2006	Dr. Seema Singh Prof. Bashir Ahmad Ganai (Co-supervisor)	*In vitro* propagation strategies and phytochemical analysis of *in vivo* and *in vitro* raised plants of *Atropa acuminata* Royle		Originality of the work be ensured in view of following work. In vitro shoot multiplication response in shoot tips of Atr acuminata Royle on three different nutrient media - a comparative study (Qadri. and Shah, 2007). Variation in adaptation mechanisms of medicinal h the extreme winter conditio across the North Western Himalaya (Jan et al. 2013) In case, work has been alre carried out, the topic of res be redrafted and revised sy be routed through Dean of School for final approval c Dean Research.
11.	Asiya Ramzan Whole-time Ph.D Reg.No.17940-NW-2006	Dr. Reiaz Ul Rehman Prof. Inayatullah Tahir (Co-supervisor)	Mechanistic study of contribution of various proteins in fungal drug resistance	Mechanistic study of contribution of various proteins in fungal drug resistance	Objectives to be redrafted in order t make them specific

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12.	Sajad Ahmad Padder Whole-time Ph.D Reg.No.46462-ANG-2005	Dr. Reiaz Ul Rehman Prof. Inayatullah Tahir (Co-supervisor)	Studies on factors contributing to the development of drug resistance in clinical isolates of pathogenic fungi	Factors contributing to development of drug resistance in clinical isolates of pathogenic fungi	Topic modified.
13.	Jasfeeda Qadir Whole-time Ph.D Reg.No.12988-AW-2005	DR. Seema Singh Prof. Zahoor A. Kaloo Prof. Bashir A. Ganai (Co-supervisor)	Bioprospecting *Polygonatum verticillatum* All. through advanced tissue culture techniques		Title be revisited for clarity
14	Sumeet Kour Whole-time Ph.D Reg.No.3169-BW-2005	Dr. Seema Singh Dr. Zahoor Ahmad Kaloo Dr. Prashant Misra Scientist and Assistant professor (ACSIR) (Co-supervisor)	*In vitro* propagation and genetic transformation of *Saussurea costus* Lipsch. growing in Kashmir Himalaya		Since several institutions work on medicinal plants, it be ensured that the work is not a repetition of the work already done.
15.	Maroof Hamid Whole-time Ph.D Reg.No.27770-SP-2007	Dr. Anzar A. Khuroo	*Studies on alpine vegetation along an elevation gradient in Kashmir Himalaya*	*Studies on alpine vegetation along an elevation gradient in Kashmir Himalaya*	-

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16.	Shugufta Rasheed Whole-time Ph.D Reg.No.18355-AW-2008	Dr. Anzar A. Khuroo Dr. Tanvir-ul-Hassan Dar Dr. Aijaz Hassan Ganie (Co-supervisor)	Floristic diversity in the aquatic ecosystems of Kashmir Himalaya	Floristic diversity in the aquatic ecosystems of Kashmir Himalaya	
17.	Zubair Ahmad Rather Whole-time Ph.D Reg.No.40426-S-2006	Dr. Anzar A. Khuroo Dr. Tanvir-ul-Hassan Dar Dr. Abdul Rashid Dar (Co-supervisor)	SYSTEMATIC STUDIES ON GENUS *EPHEDRA* L. IN INDIA	Systematic studies on genus *Ephedra* L. in India	
18.	Insha Muzafar Whole-time Ph.D Reg.No.27915-SP-2008	Dr. Anzar A. Khuroo Dr. Irfan Rashid (Co-supervisor)	Diversity and Carbon Sequestration Potential of the Arboreal Florain Urban Green Spaces of Srinagar, Kashmir	Diversity and Carbon Sequestration Potential of the Arboreal Flora in Urban Green Spaces of Srinagar, Kashmir	

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19.	Shiekh Marifatul Haq Whole-time Ph.D Reg.No.8240-KC-2007	Dr. Irfan Rashid Dr. Anzar A. Khuroo (Co-supervisor)	Studies on floristic diversity and biomass of forests in Jammu and Kashmir	Studies on floristic diversity and biomass of forests in Jammu and Kashmir	

Registration of scholars to 3-year Integrated Ph.D

S. No.	*Name of the Scholar*	*Name of Supervisor / Co-Supervisor*	*Proposed topic of research*	*Approved topic of research*	*Remarks*
20.	Rameez Nazir Rather Whole-time I-Ph.D Reg.No.19112-SJ-2006	Dr. Aijaz A. Wani Dr. Mehraj-Ul-Din Shah (Co-supervisor)	Identification of resistance source(s) from apple (*Malus* × *domestica* Borkh.) germplasm for the management of scab caused by *Venturia inaequalis*	Identification of scab resistance genes from apple (*Malus* × *domestica* Borkh.) germplasm for management of apple scab	Topic modified.
21.	Mudasir Ahmed Dar Whole-time I-Ph.D Reg.No.55628-ANG-2007	Dr. Manzoor A. Shah Prof. Zafar A. Reshi (Co-supervisor)	Competitive interactions between invasive plant species and co-occurring species in native and non-native ranges	Competitive interactions between invasive plant species and co-occurring species in native and non-native ranges	
22.	Saima Farooq Whole-time I-Ph.D Reg.No.24717-ic-2009	Dr. Manzoor A. Shah Prof. Inayatullah Tahir (Co-supervisor)	Metal stress tolerance and phytoremediation potential of selected invasive macrophytes	Metal stress tolerance and phytoremediation potential of selected invasive macrophytes	

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23.	Feroze Ahmad Reshi Whole-time I-Ph.D Reg.No.52787-ANG-2007	Prof. Irshad A. Nawchoo	Impacts of Livestock Grazing on Reproductive Traits of Selected Medicinal Plants of Kashmir Himalaya	Impacts of Livestock Grazing on Reproductive Traits of Selected Medicinal Plants of Kashmir Himalaya	
24.	Zahoor Ahmad Bhat Whole-time I-Ph.D Reg.No.43749-S-2010	Prof. Abdul Hamid Wani Dr. Mohammad Yaqub Bhat (Co-supervisor)	BIOCHEMICAL AND MOLECULAR CHARACTERIZATION OF SOME MEDICINAL MUSHROOMS OF KASHMIR HIMALAYA	BIOCHEMICAL AND MOLECULAR CHARACTERIZATION OF SOME MEDICINAL MUSHROOMS OF KASHMIR HIMALAYA	
25.	Bushra Jan Whole-time I-Ph.D Reg.No.53868-w-2008	Dr. Zafar A Reshi Dr. F. A. Mohiddin (Co-supervisor)	Microbial endophytes of Saffron (Crocus Sativus L.) and their role in plant growth promotion	Microbial endophytes of saffron (*Crocus sativus* L.) and their role in plant growth promotion	
26.	Nafeesa Farooq Khan Whole-time I-Ph.D Reg.No.55658-W-2009	Prof. Zafar Ahmad Reshi	Diversity and role of mycorrhizal fungi in ecophysiology of some plant species in alpine treeline ecotone of Kashmir Himalaya	Diversity and role of mycorrhizal fungi in ecophysiology of some plant species of alpine treeline ecotone in Kashmir Himalaya	Topic modified

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27.	Ambreen Tahir Shah Whole-time I-Ph.D Reg.No.24744-IC-2009	Prof. Zafar A. Reshi Dr. M. Altaf Bhat (Co-supervisor)	Understanding epigenetic contributions in invasiveness of *Conyza canadensis* in Kashmir Himalaya	Understanding epigenetic contributions in invasiveness of *Conyza canadensis* in Kashmir Himalaya	
28.	Saadiya Elyas Whole-time I-Ph.D Reg.No.23689-AW-2010	Prof. Zahoor A. Kaloo Prof. Bashir A.Ganai (Co-supervisor)	Bioprospection and *in vitro* mass production of *Fritillaria imperialis* L. growing in Kashmir Himalaya	Bioprospection and *in vitro* production of *Fritillaria imperialis* L. growing in Kashmir Himalaya	Topic modified
29.	Mahpara Mukhtar Kashtwari Whole-time I-Ph.D Reg.No.55002-W-2009	Dr. Aijaz A. Wani Dr. Manoj K. Dhar (Co-supervisor)	*In-vitro* mutagenesis for genetic improvement of Kashmir saffron (*Crocus sativus* L.)	*In-vitro* mutagenesis for genetic improvement of saffron (*Crocus sativus* L.)	Topic modified
30.	Humara Fayaz Whole-time I-Ph.D Reg.No.6499-BW-2009	Dr Aijaz A. Wani Dr. Reyazul Rouf Mir (Co-supervisor)	Genetic analysis for nutritional traits in Chickpea (*Cicer arietinum* L.) using molecular markers	Genetic analysis for nutritional traits in Chickpea (*Cicer arietinum* L.) using molecular markers	Topic be revisited for any suitable modification

34.	Romana Farooq Bagdadi Whole-time I-Ph.D Reg.No.53897-W-2008	Dr. Manzoor Ahmad Shah Prof. Zafar Ahmad Reshi (Co-supervisor)	Morphological and molecular characterization of some mushrooms for their anticancer activity	Morphological and molecular characterization of some mushrooms for their anticancer activity	
35.	Aadil Rasool Whole-time I-Ph.D Reg.No.21145-PC-2010	Dr. Reiaz Ul Rehman Prof. Inayatullah Tahir Dr Manoj Prasad (Co-supervisor)	Biochemical basis of stress alleviation in Proso millet (*Panicum miliaceum* L.) grown in Kashmir Himalaya	Biochemical basis of stress alleviation in Proso millet (*Panicum miliaceum* L.) grown in Kashmir Himalaya	Supervisor to spell o methodology in the synopsis.
36.	Rameez Ahmad Whole-time I- Ph.D Reg.No.32480-SP-2009	Dr. Anzar A. Khuroo Dr. Irfan Rashid (Co-supervisor)	*Studies on the ecological impacts of plant invasion in Kashmir Himalaya*	Studies on the ecological impacts of plant invasion in Kashmir Himalaya	

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37.	Zeenat Ismail Whole-time I-Ph.D Reg.No.52197-W-2008	Dr. M. Yaqub Bhat Dr. Anzar A. Khuroo (Co-supervisor)	*Studies on Floristic diversity of Bryophytes in Srinagar, Kashmir Himalaya*	Studies on Floristic diversity of Bryophytes in Srinagar, Kashmir Himalaya	
38.	Salika Ramazan Whole-time I-Ph.D Reg.No.57962-W-2010	Dr. Riffat John Dr. Parvaiz Ahmad Asst. Prof. S. P College Sgr. (Co-supervisor)	Molecular Characterization of Maize (*Zea mays*L.)from Kashmir Himalaya in Response to Low Temperature Tolerance		Following suggested title may be considered "Characterization of genes imparting cold tolerance to maize (*Zea mays* L.) in Kashmir Himalaya"
39.	Sujat Ahmad Lone Whole-time I-Ph.D Reg.No.14479-PC-2008	Dr. Riffat John	GENOME EDITING FOR LIGNIN SYNTHESIS IN *Arabidopsis thaliana*	Genome editing for lignin synthesis in *Arabidopsis thaliana*	*Arabidopsis thaliana* being a herbaceous plant, genome editing for lignin synthesis needs a relook.
40.	Umer Yaqoob Whole-time I-Ph.D Reg.No.58641-ANF-2009	Dr. Riffat John Dr. Nazir Ahmad Dar (Co-supervisor)	Characterization and Functional Validation of selected Brassinosteroid Transcriptional Factor in *Arabidopsis thaliana*	Characterization and Functional Validation of selected Brassinosteroid Transcriptional Factor in *Arabidopsis thaliana*	

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41.	Irshad Ahmad Sofi Whole-time I-Ph.D Reg.No.22404-BC-2009	Dr. Irfan Rashid Prof. Zaffar A. Reshi	Population genetic structure, diversity and allelopathic potential of Kashmir Elder - a wide spread clone species in North Western Himalaya	Genetic diversity and allelopathic potential of Kashmir Elder - a wide spread clonal species in North Western Himalaya	Topic modified.
42.	Wasifa Whole-time I-Ph.D Reg.No.57728-W-2010	Dr. Reiaz Ul Rehman Prof. Inayatullah Tahir Dr Manoj Prasad (Co-supervisor)	Evaluation of stress alleviation in foxtail millet (*Setaria italica*) grown in Kashmir Himalaya and Ladakh	Evaluation of stress alleviation in foxtail millet (*Setaria italica*) grown in Kashmir Himalaya and Ladakh	
43.	Shazia Parveen Whole-time I-Ph.D Reg.No.55026-W-2009	Prof. Inayatullah Tahir	Biochemical and molecular aspects of flower senescence with an impact on postharvest performance in some select ornamentals of Caryophyllaceae	Biochemical and molecular aspects of flower senescence with an impact on postharvest performance in some select ornamentals of Caryophyllaceae	
44.	Foziya Altaf Whole-time I-Ph.D Reg.No.24672-IC-2009	Prof. Inayatullah Tahir	Physiological and biochemical changes associated with leaf senescence in some members of Saxifragaceae	Physiological and biochemical changes associated with leaf senescence in some members of Saxifragaceae	
45.	Sheikh Sajad Ahmed Whole-time I-Ph.D Reg.No.3278-HD-2005	Prof. Zafar A. Reshi Prof. Khurshid Iqbal Andrabi (Co-supervisor)	Evaluation of wild mushroom diversity in Kashmir Himalaya for lead metabolites with potential to modulate mTOR signaling pathway essential for cell growth and proliferation	Evaluation of wild mushroom diversity in Kashmir Himalaya for lead metabolites with potential to modulate mTOR signaling pathway essential for cell growth and proliferation	