

# Proceedings of the Fifth Meeting of Board of Studies for Basic Science of Navsari Agricultural University

Venue: Conference Hall, ACHF, NAU, Navsari

Date: 14.10.2014

Time: 09.30 to 13.30 hr

The chairman of Board of Studies for Basic Sciences welcomed the respected Director of Research and dean, P.G. studies along with respected dean Dr. N.L. Patel and members of the board of studies followed by floral welcome. The chairman of Board of studies requested Dr. A.N.Sabalpara, Director of Research and Dean, P.G.studies, N.A.U.Navsari to preside today's meeting. The chairman briefed the dignitaries and members about the importance of Basic sciences and emphasized to be active looking to the research framework of the University.

Dr. N. L. Patel, Dean, ASPEE College of Horticulture and Forestry, emphasized that PG research area should be focused on horticultural crops because South Gujarat is main hub of horticultural crops. He indicated that climate change is a big issue for horticultural crops in this area and emerging as a major constraint for mango flowering. He urged to the scientists to find out the major genes, which impart tolerance against water logging problem in brinjal and YVMV in okra. He also instructed to faculty members to use modern teaching aids for UG and PG teaching.

In his presidential speech, the Director of Research and Dean PG studies Dr. A.N.Sabalpara discussed about significance of Board of Studies that is meant for review of education and research. He informed to the house that the Board of Studies system of Navsari Agricultural University has also been highly appreciated by Director General of ICAR during meeting with our honorable Vice Chancellor Dr. A.R. Pathak. He instructed that the minutes of board of studies should also be submitted to the Registrar and DR office that will be helpful for preparation of bound volume of official BOS minutes document. He highlighted that the PG research work should be innovative one and should be as per the need of the farmer of this area. He said that before the era of climate change meteorology was neglected but now meteorological data is used by government for planning crop insurance. Due to climate change there is heavy loss in mango production and the mango malformation problem in orchard is increasing day by day, so proper physiological study should be undertaken to solve this problem. He emphasized that innovative research should be undertaken in the discipline of Biochemistry and nutritional value of our traditional minor crops should be studied, eg. Ber, Karat, Guava, etc. He acquainted that microbiology is a vast field to be explored in terms of work on useful microorganisms and formulations like bio-weedicide, PGPR, insect bio control, soil conditioning microorganisms, endophytes, etc. He urged to the biotechnology scientists to develop molecular tools for diagnosis of microorganisms at strain level. He also highlighted to identify nitrogen fixing genes and phosphate solubilizing genes from microorganisms.

Meeting was started with the reading of action taken report of fourth meeting of Board of Studies of Basic Science held on 20<sup>th</sup> November 2013, which was adopted. The action taken report was approved in the meeting.

Departmental educational activities of Plant Physiology, Biochemistry, Plant Molecular Biology & Biotechnology, Agricultural Microbiology, Agricultural Meteorology and Bio-Mathematics were presented by Dr. Ajay V. Narwade, Dr. Nilima Karmakar, Dr. Taslim Ahmad, Dr. M. D. Khunt, Dr. Neeraj Kumar and Dr. M.G. Verma respectively.

Post graduate student experimental research outlines were presented in the Board of Studies meeting of Basic Science discipline and the same were approved with the suggestions mentioned in the Annexure-1

At last, meeting was ended with vote of thanks by Prof. V.B. Parekh, Assistant Professor, ACHF, NAU, Navsari.

No. ACHF/PP/T-1/ /2014

Dated:

  
Chairman

Board of studies of Basic Sciences and Professor  
Dept. of Pl. Patho., ACHF, NAU, Navsari



## Annexure-I

**Post Graduate student experimental research outlines presented in Board of Studies meeting of Basic Science discipline Plant Physiology, Biochemistry, Plant Molecular Biology & Biotechnology, Agricultural Microbiology and Agricultural Meteorology held on 14<sup>th</sup> October, 2014 at NAU, Navsari**

No.	Name of the student	Name of Major Advisor with Designation	Title of PG research	Suggestions
<b>Ph.D. (Plant Physiology)</b>				
BBS.5.1.1	Mr. S Sree Ganesh	Dr. A. V. Narwade Assistant Professor Department of Plant Breeding and Genetics NMCA, NAU, Navsari	Effect of water regimes on physiological, biochemical, quality and yield components of Sugarcane ( <i>Saccharum</i> spp.)	<b>Accepted with following suggestions:</b> <ul style="list-style-type: none"> <li>•The T4 (control irrigation) should as per NAU recommendation.</li> </ul>
<b>M.Sc. (Plant Physiology)</b>				
BBS.5.1.2	Mr. Zinzala Vivekbhai N	Dr. A. V. Narwade Assistant Professor Department of Plant Breeding and Genetics NMCA, NAU, Navsari	Effect of water regimes on physiological, biochemical, quality and yield components of Indian Bean ( <i>Lablab purpureous</i> L.)	<b>Accepted with following suggestions:</b> <ul style="list-style-type: none"> <li>•Number of replications should be mentioned.</li> <li>•The experiment should be conducted with strip plot design.</li> </ul>
BBS.5.1.3	Mr. Kudache Akshay Nilkantha	Dr. A. V. Narwade Assistant Professor Department of Plant Breeding and Genetics NMCA, NAU, Navsari	Effect of water logging on physiological, biochemical, quality and yield components of Sugarcane ( <i>Saccharum</i> spp.)	<b>Accepted with following suggestions:</b> <ul style="list-style-type: none"> <li>•Title should be changed as follows: "Effect of water logging on physiological, biochemical and yield components of Sugarcane (<i>Saccharum</i> spp.)"</li> <li>•Days for water logging condition, date of planting and plot size should be mentioned.</li> </ul>

<b>BBS.5.1.4</b>	Mr. Jadav Sagar K	Prof. Kirti Bardhan Assistant Professor Crop Physiology, ACHF, NAU, Navsari	Identification of early stage salt stress responses in tomato under iso osmotic stress induced by salt and PEG.	<b>Accepted with following suggestions:</b> • Title should be changed as follows: “Identification of early stage salt stress responses in tomato under iso osmotic condition.” • The experiment should be reframed as per CRD.
<b>M.Sc. (Biochemistry)</b>				
<b>BBS.5.1.5</b>	Mr. Chourya Kalpeshkumar K	Dr. Diwakar Singh Assistant Professor Department of Plant Molecular Biology and Biotechnology ACHF, NAU, Navsari	Biochemical and molecular changes in Banana (Grand Naine) during ripening	<b>Accepted with following suggestions:</b> • Change title as “Biochemical and molecular changes during ripening in Banana ( <i>Musa acuminata</i> AAA Group)” • Number of repetition should be 6.
<b>BBS.5.1.6</b>	Ms. Abuj Bhagyashree B	Dr. Nilima Karmakar Assistant Professor Department of Soil science and chemistry NMCA, NAU, Navsari	Elicitor induced defense response in tomato ( <i>Solanum lycopersicum</i> L.) against <i>Fusarium oxysporum</i>	<b>Accepted with following suggestions:</b> • The experiment should be reframed with the consultation of following faculties: Dr. S.K. Jha, Asso. Prof., ACHF, Dr. L. Mahatma, Asso. Prof. NMCA Dr. T. Ahmad, Head (Biotech.), ACHF
<b>Ph.D. (Agril. Microbiology)</b>				
<b>BBS.5.1.7</b>	Mr. Mrugesh D Khunt	Dr. B. P. Mehta Professor and Head Department of Plant Pathology ACHF, NAU, Navsari	Effect of PGPR in mitigation of salt stress in mungbean ( <i>Vigna radiata</i> L.)	<b>Accepted</b>



<b>Ph.D. (Plant Molecular Biology and Biotechnology)</b>				
<b>BBS. 5.1.8</b>	Ms. Madhuri H Tandel	Dr. Lalit Mahatma Associate Professor Dept. of Plant Pathology NMCA, NAU, Navsari	Morphological and molecular characterization of arbuscular mycorrhizal fungi from the South Gujarat	<b>Accepted</b>
<b>BBS. 5.1.9</b>	Mr. Pravin Prajapat	Dr. Diwakar Singh Assistant Professor Department of Plant Molecular Biology and Biotechnology ACHF, NAU, Navsari	Transcriptome analysis in cotton under drought stress condition	<b>Accepted with following suggestions:</b> <ul style="list-style-type: none"> <li>• Change title as “Transcriptome analysis in cotton (<i>Gossypium hirsutum</i> L.) under drought stress condition”</li> <li>• Statistical design should be finalized with Dr. H.R. Pandya, Prof. and Head, Dept. of Ag. Stat., NMCA.</li> </ul>
<b>M.Sc. (Plant Molecular Biology and Biotechnology)</b>				
<b>BBS. 5.1.10</b>	Ms. Komal J Gadhiya	Dr. Lalit Mahatma Associate Professor Dept. of Plant Pathology NMCA, NAU, Navsari	Biochemical and molecular characterization of cellulose producing flora from termite	<b>Accepted with following suggestions:</b> <ul style="list-style-type: none"> <li>• Change title as “Biochemical and molecular characterization of cellulose producing micro organisms from termite”</li> <li>• Statistical design should be finalized with Dr. H.R. Pandya, Prof. and Head, Dept. of Ag. Stat., NMCA.</li> <li>• Reframe the objective as per title.</li> </ul>
<b>BBS. 5.1.11</b>	Mr. Divyesh K Vasava	Dr. C.V. Kapadia, Assistant Professor Department of Plant Molecular Biology and Biotechnology ACHF, NAU, Navsari	Analysis of defense metabolites production in brinjal infected by the bacterial pathogen <i>Rizactonia solanacearum</i> L.	<b>Accepted with following suggestions:</b> <ul style="list-style-type: none"> <li>• Statistical design should be Factorial CRD.</li> </ul>

<b>BBS. 5.1.12</b>	Ms. Anjali B Gandhi	Dr. C. V. Kapadia, Assistant Professor Department of Plant Molecular Biology and Biotechnology ACHF, NAU, Navsari	Comparative protein expression analysis of bacterial wilt susceptible and resistant brinjal	<b>Accepted with following suggestions:</b> • Statistical design should be Factorial CRD.
<b>M.Sc. (Agril. Meteorology)</b>				
<b>BBS. 5.1.13</b>	Mr. Shreyans N Chaudhary	Dr. K. K. Dakhore, Assistant Professor College of Agriculture, NAU, Bharuch.	Agro climatic characterization of Bharuch district	<b>Accepted with following suggestions:</b> • An objective on cropping pattern should be added.
<b>BBS. 5.1.14</b>	Mr. Nilesh J Hadiya	Dr. Neeraj Kumar Assistant Professor Department of Agricultural Meteorology, NMCA, NAU, Navsari	Coalesced impact assessment of climate change through simulation modeling (DSSAT model) for rice cultivars at South Gujarat	<b>Accepted with following suggestions:</b> • The rice variety and date of transplanting should be taken as main plot.

  
Chairman

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