



University of Agricultural Sciences, Dharwad



5th Post Graduate Research Conference - 2022

29-30 July 2022

LIST OF ABSTRACTS AND POSTERS



**Directorate of Postgraduate Studies
University of Agricultural Sciences
Dharwad-580 005**



Inauguration of Post Graduate Research Conference - 2019



Release of Conference Abstract Book - PGRC 2019

University of Agricultural Sciences, Dharwad



**5th POST GRADUATE RESEARCH
CONFERENCE-2022
(29-30 July 2022)**

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- Year of publication** : July, 2022
- Pages** : IV + 40
- Copies** : 500
- Copy right** : University of Agricultural Sciences
Dharwad - 580 005
- Compiled & Edited by** : **Dr. Ramesh Bhat**
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- Publisher** : **Dr. V. R. Kiresur**
Dean (Post Graduate Studies)
University of Agricultural Sciences
Dharwad - 580 005
- Cover page and
DTP and Type setting** : **DTP Unit**
Publication Centre,
Directorate of Education
UAS, Dharwad - 580 005
- Printer** : **Shri Bhavani Offset Printers**
Hubballi
-



**University of Agricultural Sciences
Dharwad**



Dr. R. Basavarajappa
Vice-Chancellor

FOREWORD

University of Agricultural Sciences (UAS), Dharwad is organizing **Post Graduate Research Conference (PGRC)** annually and has successfully completed four Post Graduate Research Conferences. PGRC was not held during 2020-21 & 2021-22 due to COVID Pandemic in offline mode. The conference is being organized with an objective to provide an opportunity and to encourage the students to meet, discuss and disseminate the outcome of their research work. The PGRCs have been a successful platform to share their research work, exchange of knowledge, technical know-how, expertise and skills to the fellow students/research scholars and also experts. This has also helped in developing inter disciplinary research programmes. The presentation of research work done either through poster or oral presentation has improved communication skills and research output through feedback from the faculty and students.

PGRC as an Annual event of University has further boosted the innovative ideas in research for the future. In this direction the **Fifth Post Graduate Conference 2022** is being organised by the Directorate of Postgraduate Studies during **29-30 July, 2022** at the main campus, University of Agricultural Sciences, Dharwad. It gives me immense pleasure to congratulate the entire team of the PGRC- 2022 for bringing out the list of abstracts and posters in the form of a booklet and also compiled abstracts & posters as soft copy which will be a ready reckoner for various stakeholders.

I am sure that the two-days conference will bring new ideas and dimensions among student community and teaching fraternity to plan high quality Postgraduate research which will help in elevating ranking of the University among higher Agricultural Education Institutes/Universities in the country.

I wish the conference a grand success.

(R. Basavarajappa)



University of Agricultural Sciences
Dharwad



Dr. V. R. Kiresur
Dean (PGS)

PREFACE

The University of Agricultural Sciences, Dharwad is organising fifth **Post Graduate Research Conference (PGRC) 2022 on 29-30 July 2022** at the Main Campus of UAS, Dharwad to provide an opportunity to the Doctoral and Masters degree students to present their research findings before the experts, their peers and faculty and other PG students. The Conference will promote capability building and personality development among the postgraduate students so that their research interest is highlighted to a large group of faculty and students. The successfully organised PGRCs from 2016 to 2019 were appreciated by well known academicians, researches and administrators across the state.

As a part of their academic programme it is mandatory on the part of Master's degree and Doctoral degree students of UAS, Dharwad to participate in the Post Graduate Research Conference and to present poster related to his/her Master's degree research work and to make oral presentation related to his/her Doctoral degree research work. In this conference, research findings of Postgraduate students in the areas of Crop Improvement, Crop Production, Crop Protection, Social Sciences, Community Sciences and Forestry Sciences are included. About 330 students from 25 Postgraduate departments will be participating in the two-days conference. The research work completed on specific objective in different disciplines will be showcased by the students. Such deliberations and interactions will certainly open a window of opportunity for future Postgraduate students to widen their horizon by way of selecting research problems and finding suitable solutions.

The Postgraduate students from Dharwad, Vijayapur, and Sirsi campuses are participating in the programme. About 252 posters and 70 oral presentations will be delivered in these two days conference which are compiled and brought in the form of this booklet "List of abstracts and posters".

It's my privilege to extend gratitude to all the Chairmen, Co-Chairmen and Members of various committees who have helped directly or indirectly for the successful organisation of the PGRC-2022.

I wish a great success for the PGRC- 2022.


(V. R. Kiresur)



University of Agricultural Sciences, Dharwad
Directorate of Post Graduate Studies

PG Research Conference-2022
(29-30 July, 2022)

ORAL PRESENTATIONS

Group - I

**[Crop Physiology, Genetics and Plant Breeding, Molecular
Biology and Biotechnology and Seed Science & Technology]**

**1. Department of Genetics and Plant Breeding, College of
Agriculture, Dharwad**

- OP-1** Pavan Kumar N and Biradar B D, Identification of agronomically superior recombinants with fertility restorer gene on *maldandi* source of male sterility in Sorghum (*Sorghum bicolor* (L.) Moench).
- OP-2** Rajeshwari Teli A, Parameshwarappa S G and Jayant S Bhat, Genetic analysis of turcicum leaf blight resistance in maize.
- OP-3** Shailaja D S, Basavaraj D Biradar and Ishwarappa S Katageri, Exploring the genetics of fibre initiation in cotton (*Gossypium* spp.).
- OP-4** Diwakar Reddy S E and Hanamaratti N G, Screening of Sorghum (*Sorghum bicolor* (L.) Moench) introgressed lines (BC₂F₄) for Shoot fly (*Atherigona soccata*) resistance.
- OP-5** Kavyashree N M and Sanjeev K Deshpande, Screening of diverse cowpea accessions to identify novel sources of resistance to dry root rot (*Macrophomina phaseolina* (Tassi) Goid.).
- OP-6** Sushmitha B, Rudra Naik V and Suma S Biradar, Estimation of gene effects for free threshability through generation mean



analysis in advanced mutant lines of *Dicoccum* Wheat (*Triticum dicoccum* (Schrank) Schuebler).

- OP-7** Mahesh Biradar and Ishwarappa S Katageri, Identification of major QTLs for yield, yield attributes and fiber quality traits in upland cotton (*Gossypium hirsutum* L.).
- OP-8** Mahmad shafi and Sridevi O, Pyramiding of tomato leaf curl virus disease resistant genes in tomato through marker assisted backcross breeding.
- OP-9** Raju Shyadambi, Sumangala Bhat and Jayant S Bhat, Heritability of combining ability for grain yield in early segregating generations of field corn.

2. Department of Molecular Biology and Biotechnology, College of Agriculture, Dharwad

- OP-10** Arun Y P and Krishnaraj P U, Molecular characterization and metabolome profiling to identify efficient actinobacterial isolates.

4. Department of Seed Science and Technology, College of Agriculture, Dharwad

- OP-11** Islavath Suresh Naik and Hilli J S, Impact of different packaging materials and storage conditions on seed longevity in Onion (*Allium cepa* L.).
- OP-12** Sharanappa and Hilli J S, The effect of different packaging materials on seed longevity in black cumin (*Nigella sativa* L.) varieties.
- OP-13** Rajeshwari M C and Biradarpatil N K, Influence of endophytes priming on seed quality parameters of sorghum.
- OP-14** Rahul R Nelwadker and Uppar D S, Effect of terminal heat stress and its mitigation on growth and yield in wheat varieties (*Triticum aestivum* L.).



Group -II

[Agronomy, Agril. Microbiology, Horticulture and Soil Science and Agril. Chemistry]

1. Department of Agronomy, College of Agriculture, Dharwad

- OP-15** Gugulothu Sumitra and Rajkumara S, Effect of time of application and dosage of herbicide on weed dynamics in wheat crop under minimum tillage.
- OP-16** Jaisimha Reddy K and Chandrashekara C P, Development of soil test crop response (STCR) fertilizer prescription equations for maize in *vertisols* of Karnataka.
- OP-17** Kiran Emmiganur and Matiwade P S, Evaluation of intercrops (mulching) and green leaf manure for weed management in sweet corn under organic production.
- OP-18** Madhumati S Pujeri and Gaddanakeri S A, Comparative studies on natural farming, organic farming and integrated crop management practices on growth and yield of cotton.
- OP-19** Pooja C A and Sudha T, Ecologically benevolent synthesis and characterization of potassium, calcium and silicon nanoparticles and evaluation of their potentiality in rainfed wheat (*Triticum aestivum* L).
- OP-20** Shivashankar K and Potdar M P, Sensor based precision nitrogen management in maize (*Zea mays* L).
- OP-21** Uma V and Hosmath J A, Use of decision support tools for precision nitrogen nutrition in wheat (*Triticum aestivum* L).
- OP-22** Vidyashree B S and Kubsad V S, Performance of berseem genotypes to different row spacings and fertilizer levels.



2. Department of Agricultural Microbiology, College of Agriculture, Dharwad

OP-23 Asif Waratadar and Jones Nirmalnath P, Effect of arbuscular mycorrhizal fungi on glomalin related soil protein and their influence on soil aggregation.

OP-24 Jayashree T and Sreenivasa M N, Biological management of Fusarium wilt of tomato by AM fungi in conjunction with other bio-control agents and liquid organic manure.

3. Department of Horticulture, College of Agriculture, Dharwad

OP-25 Laxmi Patil and Biradar M S, Influence of growing condition, spacing and nutrition on growth and yield of *Heliconia* genotypes.

OP-26 Manjula Karadiguddi, Venugopal C K, Ramachandra Naik K, Angadi S G, Hemalatha S and Nethra P, Standardisation of Pre-Treatments and Drying Methods for Dehydration of Shatavari.

OP-27 Annigeri S V and Shashidhar TR, Studies on genetic variability, heritability and genetic advance for growth, yield and quality attributes in sponge gourd [*Luffa cylindrica* (Roem.) L.].

4. Department of Soil Science and Agriculture Chemistry, College of Agriculture, Dharwad

OP-28 Sowjanya T V and Bidari B I, Identifications of yield limiting nutrients in Bt cotton through leaf analysis using compositional nutrients diagnosis (CND) approach in part of zone-VIII in North Karnataka.

OP-29 Sujaina M and Math K K, Effect of sulphur, zinc and boron nutrition on growth, yield, quality and storability of onion (*Allium cepa* L.) in northern transitional zone of Karnataka.

OP-30 Ummesalma Sanadi and Math K K, Studies on yield maximization in wheat (*Triticum aestivum* L.) through soil test based nutrient management approaches.



- OP-31** Veereshkumar Shirur and Patil PL, Soil fertility status of Hale Honnatti sub-watershed of Haveri district in Northern transition zone of Karnataka.

Group – III

[Agricultural Entomology and Plant Pathology]

1. Department of Agricultural Entomology, College of Agriculture, Dharwad

- OP-32** Ramesh M Maradi and Jagginavar S B, Bio-efficacy of newer molecules of insecticides against aphid (*Aphis punicae*) in pomegranate.
- OP-33** Sheela N and Patil S B, Performance of UASD *Bt* cotton event No-78 against pink bollworm in comparison with commercially available *Bt* cotton Events in India.
- OP-34** Dileep Kumar N T and Biradar A P, Comparative biology of citrus butterfly, *Papilio demoleus* L. and *Papilio polytes* L. on acid lime.
- OP-35** Rakshitha T N and Prabhu S T, Foraging behaviour of stingless bees and its effect on yield parameters of gherkin under protected cultivation
- OP-36** Raghunatha R and Javaregowda, Seasonal incidence and species diversity of fruit flies infesting *Garcinia* spp. in Uttara Kannada district, Western Ghats of Karnataka.
- OP-37** Ashwini A and Hegde M G, Comparative study of tomato pinworm incidence under protected and open field cultivation.

2. Department of Plant Pathology, College of Agriculture, Dharwad

- OP-38** Sagar N and Jamadar M M, Prevalence and genetic diversity of grapevine downy mildew [*Plasmopara viticola* (Berk. & M. A. Curtis) Berl. & De Toni] and powdery mildew [*Erysiphe necator* (Schwein.) Burrill.] in the major growing regions of Karnataka.



- OP-39** Arvind M and Prashanthi S K, Identification of sheath blight resistant sources and differentially expressed proteins against *Rhizoctonia solani* Kuhn in rice.
- OP-40** Harshitha K N and Palakshappa M G, Organic management of anthracnose of chilli caused by *Colletotrichum capsici* (Syd.) Butler and Bisby.
- OP-41** Ishwari G H and Shamarao Jahagirdar, *In vitro* and *in vivo* evaluation of rhizobacterial isolates and endophytes for antifungal and growth promotional activities against *Sclerotium rolfsii* Sacc. causing collar rot of soybean.
- OP-42** Prashantha A and Suryanarayana V, Survey and Exploration of *Trichoderma* sp. in different ecosystem of canara circle.
- OP-43** Sindushree D. R. and Patil P. V., Loss assessment and development of spray schedule for the management of cowpea rust (*Uromyces phaseoli* var. *vignae*)

Group -IV

[Agribusiness Management, Agricultural Economics and Agricultural Extension Education]

1. Department of Agribusiness Management, College of Agriculture, Dharwad

- OP-44** Chaitra Harkude and Yeledhalli R A, Terms of trade for Indian agricultural exports – growth analysis.
- OP-45** Hanumantappa Jamanal and Murthy C, Growth and instability in area, production and productivity of arecanut in Karnataka.
- OP-46** Manohar B H and Balachandra K Naik, Resource allocation to obtain optimum returns in open cultivation of selected vegetable crops in Karnataka.
- OP-47** Santhosha K M and A D Naik, Export competitiveness & direction of trade of shrimps products export from India.



2. Department of Agricultural Economics, College of Agriculture, Dharwad

- OP-48** Kamble S H and Guledagudda S S, Mohammad Akbar Nadeer Poor and Patil B L, Constraints faced by the exporters in trade of selected agricultural commodities from Afghanistan and India.
- OP-49** Mohammad Akbar Nadeer Poor and Patil B. L., Constraints faced by the Exporters in trade of selected Agricultural commodities from Afghanistan and India
- OP-50** Yadava C G and Kulkarni G N, Livelihood composition of distinct indigenous communities in central western ghats of Karnataka.
- OP-51** Chandrarekha C and Guledagudda S S, Nexus of agriculture growth and poverty reduction in India.
- OP-52** Gagana M D and Kiresur V R, Assessment of risk-taking behavior of agripreneurs in Karnataka.

3. Department of Agricultural Extension Education, College of Agriculture, Dharwad

- OP-53** Chetan B M and Ganga V Yenagi, Climate Resilience of Farmers.
- OP-54** Lakshmi Devi C and Nagaratna Biradar, Assessment of fodder availability and requirement for livestock in Andhra Pradesh.
- OP-55** Krishna Gudadur and Dolli S S, Pesticide use behavior of the farmers in selected crops.
- OP-56** Nasratullah Kakar and Manjula N, Knowledge and extent of utilization of ICT tools among the faculty and students of University of Agricultural Sciences, Dharwad.
- OP-57** Atheequlla G A and Manjula N, Development of scale to measure the risk perception of farmers towards protected cultivation.



- OP-58** Neethu B Nair and Krishna Jahagirdar, Professional competence of extension personnel.
- OP-59** Rahul Pawar and Devendrappa S, Comparison of effectiveness of different digital formats on knowledge gain and symbolic adoption of sugarcane cultivation practices.
- OP-60** Prakash Tamagond and J G Angadi, Innovation Decision process of Sericulture technologies

Group-V

[Family Resources Management, Food Science and Nutrition, Human Development & Family Studies]

1. Department of Family Resource Management, College of Community Science, Dharwad

- OP-61** Shilpa C P and Renuka S S, Analysis of carbon emission and carbon sequestration in rural areas of Dharwad district, Karnataka.

2. Department of Food Science and Nutrition, College of Community Science, Dharwad

- OP-62** Mahalaxmi K and Sarojani Karakannavar, Development and Standardization of *Instant* Browntop millet *dosa* mix.
- OP-63** Mounika D. and Hemalatha S., Optimization of zinc microencapsulation by using modified solvent evaporation method and spray drying method for milk fortification
- OP-64** Pallavi M. B. and Uma N. K., Physical and functional properties of coloured horsegram cultivars and flour
- OP-65** K. Srilekha, Dr. Sarojani J. Karakannavar, Impact of resistant starch development method on physical, functional properties of brown top millet



- OP-66** Sylvia B. and Sarojani Karkannavar, Physical and functional characteristics of barnyard (*Echinochloafrumentacea* L.) and kodo (*Paspalum scrobiculatum* L.) millet
- OP-67** Girijamma Mulimani and Kashibai Khyadagi, Prevalence of Low Birth Weight Babies incidences in hospitals ofH ubli-Dharwad.
- OP-68** Bheemanagouda and Kashibai Khyadagi, Assessment of malnutrition among adolescents in Hyderabad Karnataka Region

**3. Department of Human Development & Family Studies,
College of Community Science, Dharwad**

- OP-69** Gonal Amruta M and Pujar Lata, Parenting stress of children with Autism Spectrum disorders
- OP-70** Hegde Priya R and Muktamath Vinutha U, Predictors of empowerment status of Kunabi women of Uttara Kannada district, Karnataka.



POSTER PRESENTATIONS**Group - I**

[Genetics and Plant Breeding, Biochemistry, Molecular Biology, Crop Physiology and Seed Science & Technology,]

1. Department of Genetics and Plant Breeding, College of Agriculture, Dharwad and Vijayapura

- PP-1** Hemanth S, Laxmi C Patil and Sridevi O, Genetic variability studies in advanced breeding lines of Sesame (*Sesamum indicum* L.).
- PP-2** Dharani Sree K and Sumangala Bhat, Genetic variability studies in advanced breeding lines of Mungbean.
- PP-3** Arfa Sadiya, Mruthunjaya C Wali and Sridevi O, Genetic variability for green ear yield and its component traits in early segregating generation in sweet corn (*Zea mays saccharata* L.).
- PP-4** Sushma Balappa Vijayanagar, Biradar B D and Sridevi O, Genetic variability studies on *maldandi* cytoplasm in sorghum (*Sorghum bicolor* L. Moench).
- PP-5** Vishalkumar, Suma S Biradar and Sridevi O, Principal component analysis for yield and its component traits in durum wheat under moisture stress condition.
- PP-6** Rachana M and Chandrakant D Soregaon, Genetic variability studies for yield and its components in Pearl millet [*Pennisetum glaucum* (L.) R. Br.].
- PP-7** Megha S Sogalad and Sanjeev K Deshpande, Genetic variability studies for disease resistance in diverse genotypes of cowpea (*Vigna unguiculata* (L.) Walp. subsp. *unguiculata*).



- PP-8** Aishwarya H and Naghabhushana Nayidu, Variability study for productivity parameters in safflower (*Carthamus Tinctorius* L).
- PP-9** Eshwar and Sridevi O, Genetic variability studies in MAGIC population of Tomato (*Solanum lycopersicum* L.).
- PP-10** Nishanth B M and Chandrakant D Soregaon, Stability assessment of hybrids and their parents across different locations for yield and quality parameters in pigeonpea.
- PP-11** Kavya A S and Naidu G K, Identification of maize (*Zea mays* L.) hybrids for drought tolerance under PEG induced drought.
- PP-12** Monisha J and Talekar S C, Study on association of kernel row number with other ear related traits in early segregating generation in maize (*Zea mays* L.).
- PP-13** Kiran K M and Nagappa Govanakoppa, Analysis of combining ability in maize for early maturity and yield.
- PP-14** Vinutha K M and Jayant S B, Genetic diversity study among maize (*Zea mays* L.) in bredlines.
- PP-15** Anusha K and Parameshwarappa S G, Genetic variability studies for quantitative characters in Sesame (*Sesamum indicum* L.) genotypes.
- PP-16** Dharani Sree K and Sumangala Bhat, Genetic variability studies in advanced breeding lines of Mungbean.
- PP-17** Ravikumar.HV and Uday G Reddy, Molecular characterization and diversity studies in fusarium head blight (*Fusarium* spp.) of Wheat.
- PP-18** Spoorthi S R and Shobha Immadi, Genetic variability studies in advanced breeding lines of soybean for yield and yield related traits.
- PP-19** Sushma Balappa Vijayanagar and Biradar B D, Genetic variability studies on maldandi cytoplasm in sorghum [*Sorghum bicolor* L. Moench].



- PP-20** Santhini. V and N. G. Hanamaratti, Heterosis Breeding for earliness and productivity in *Kharif* sorghum.
- PP-21** Preethi B and Kavera Biradar, Standardization of optimum PEG dose in groundnut for screening against induced drought.
- PP-22** Sainath and Patil B R, Recombinant inbredline variability studies in cotton (*Gossypium hirsutum*) for yield and yield attributing character.
- PP-23** K. Yashashwini Reddy and Basavaraj Bagewad, valuation of rabi sorghum RILs and N.ILs for root and productivity traits under post rainy season.
- PP-24** Bharath Kumara K and Chandrakant D Soregaon, Performance of Pearl millet experimental hybrids derived from A1 CMS to rust disease.
- PP-25** Karthik M and Bangaremma S Wadeyar, Evaluation of horsegram (*Macrotyloma uniflorum* [L. am.] Verdc.) germplasm lines for morphophysiological and earliness.
- PP-26** Sneha S Patil and Sajjanar G M, Correlation analysis for productivity traits in rabi Sorghum landraces of Northern dry zone of Karnataka.
- PP-27** Swaroop K O and Sajjanar G M, Evaluation of advanced breeding lines for productivity traits in rabi Sorghum.
- PP-28** Vinaykumar S Nandigavi and Patil M B, Molecular characterization of chickpea genotypes towards breeding for drought tolerance.
- PP-29** Vishwasgowda C and Chandrakant D Soregaon, Comparison and association of non-parametric methods of stability analysis among pigeonpea mutants.
- PP-30** Rekha A Mahagave and Kachapur R M, Genetic association studies among maize germplasm lines (*Zea Mays* L.).
- PP-31** Syed Shataher Quadri and Shashidhara N, Genetic variability studies in rice (*Oryza sativa* L.) under aerobic condition.



PP-32 Abhishek patil and B D Biradar, Genetic variability studies in Byadagichilli

PP-33 Sudharani walikar and Desai S A, Study the effect of minor leaf rust resistance genes on disease resistance, Yield and yield attributes in Bread wheat.

2. Department of Biochemistry, College of Agriculture, Dharwad

PP-34 Chaitra S and Akbar S Md, Enzymatic and non-enzymatic defence response to Bt toxin in *Pectinophora gossypiella* (Saunders).

PP-35 Sadashiva S Babaladimath, Kiran K Mirajkar and Olekar N S, Green synthesis of silver nano particles and their characterization.

PP-36 Shashikala M S, Akbar S Md and Olekar N S, Isolation of gossypol degrading bacteria from the gut of *Helicoverpa armigera* for detoxification of cotton seed meal.

PP-37 Warkad Sonal Tukaram and Kiran K Mirajkar, Green synthesis of silver nano particles with Guava (*Psidium guajava*) leaf extract and its characterization.

3. Department of Biotechnology, College of Agriculture, Dharwad

PP-38 Apsana Murtuzasab Rajoor and Narayan Moger, Confirmation and expression of antigen and antibody clones.

PP-39 Gopal M R and Spurthi N Nayak, Selection of groundnut genotypes for screening resistance to *Aspergillus flavus*.

PP-40 Noorain Sadaf and Bagewadi B, Transformation of chilli with CRISPR construct targeting coat protein of Chilli leaf curl virus.

PP-41 Shweta D Chavadi and Ramesh S Bhat, Structural and functional analysis of genome-wide SNPs in groundnut (*Arachis hypogaea* L.).



4. Department of Crop Physiology, College of Agriculture, Dharwad

- PP-42** Akshay Kumar S P, Nawalagatti C M and Mummigatti U V, Impact of seed hardening chemicals to induce drought tolerance in chickpea.
- PP-43** Amulya M, Doddamani M B and Mummigatti U V, Changes in membrane stability and tissue tolerance mechanisms in PMN hybrids under salinity stress.
- PP-44** Anushree K, Edna Antony and Mummigatti U V, Recovery of guinea grass genotypes under soil salinity stress.
- PP-45** Brahmesh Reddy B R, Kiran B O and Mummigatti U V, Canopy temperature as influence by gas exchange parameters in sorghum genotypes.
- PP-46** Santhosh H Jagadal, Patil H Y and Mummigatti U V, Physiological and biochemical investigation of advance breeding lines (ABL) of groundnut (*Arachis hypogaea* L.).
- PP-47** Theju K S, Nethra P and Mummigatti U V, Physiological and biochemical basis of iron chlorosis tolerance in F6 groundnut lines.
- PP-48** Ashwini Sitaram Naik and Mummigatti U V, Morpho - physiological basis of yield variation in bread wheat (*Triticum aestivum* L.) genotypes.
- PP-49** Praveen Kumar H M and Pawar K N, Impact of osmoprotectants on enhancing productivity in Bt cotton under rainfed condition.
- PP-50** Sachin Tawarkhed and Mummigatti U V, Physiological basis of yield variation in field pea (*Pisum sativum* L.).
- PP-51** Yamuna V and Nethra P, Application of green synthesized iron nano particles and its physiological studies in groundnut genotypes.



5. Department of Seed Science and Technology, College of Agriculture, Dharwad and Vijayapura

- PP-52** Dhruva Nitin Bhagwatkar and Deshpande V K, Electrostatic field seed treatment – an effective tool for seed quality enhancement in sorghum.
- PP-53** Deepika S and Vinod Kumar, Influence of different range of temperatures on seed quality parameters of *Brachiaria ruziziensis*.
- PP-54** Gagan A V and Deshpande V K, Effect of cold plasma on seed quality in soybean (*Glycine max* (L.) Merr).
- PP-55** Harish V. K and N. K. Biradarpatil, Effect of seed size on seed longevity in groundnut (*Arachis hypogaea* L.) genotypes.
- PP-56** Jayashree R and Chandrashekhar S S, Biosynthesis, characterization and standardization of Fe and Mg nanoparticles for priming in China aster.
- PP-57** Lingaraja Danappa Churi and Deshpande V K, Effect of newer insecticides seed treatment on seed quality attributes during storage of green gram.
- PP-58** Mohammad Arif and Uppar D S, Effect of novel insecticides and botanicals on seed quality during storage of cowpea.
- PP-59** Pooja D and Deshpande V K, Bioefficacy of seed dressing fungicides and bio-agents on seed borne fungal infections and seed quality of greengram.
- PP-60** Poojarani and Uppar D S, Biosynthesis and characterization of zinc and iron nano particles using neem leaf extract.
- PP-61** Ranjitha J H and Hilli J S, Efficacy of green zinc and silver nanoparticles on seed quality attributes of pigeon pea.
- PP-62** Jayashree R and Chandrashekhar S S, Bio synthesis, characterization and standardization of Fe and Mg nanoparticles for priming in (*Callistephus chinensis*).



- PP-63** Sainath and Uppar D S, Effect of biofertilizers on growth and seed yield of soybean.
- PP-64** Sanganabasava Shegunasi and Krishna A, Influence of pre-sowing treatments on seed germination and quality in *Sapindus emarginatus*.
- PP-65** Vinayak Somappa Makari and Bharamaraj Badiger, Effect of botanicals on seed quality in green gram (*Vigna radiata* (L.) *Wilezek*) during storage.
- PP-66** Arpitha R S and Jagadish Hosamani, Physiological changes occurring during natural and accelerated ageing for vigour assessment of pigeonpea seeds.
- PP-67** Gayatri Khandappa Ravaloji and Ashok S Sajjan, Study on *in vitro* and *in vivo* management of seed borne diseases in chickpea (*Cicer arietinum* L.).
- PP-68** Kishore B G and Jagadish Hosamani, Morpho-physiological criteria for drought tolerance in *rabi* sorghum genotypes.
- PP-69** Sharanagouda Siddanna Nagavi and Patil S B, Characterization of chickpea genotypes based on seed traits
- PP-70** Uzma Amina and Jolli R B, To study influence of seed treatment with polymer coating, chemical and bio agents on field performance and bulb yield.
- PP-71** Karan B and S B Patil, Effect of bio-priming on seed quality and field performance on maize (*Zea mays* L.)

Group-II

[Agronomy, Agricultural Microbiology, Agriculture Meteorology, Horticulture & Soil Science and Agriculture Chemistry,]

1. Department of Agronomy, College of Agriculture, Dharwad and Vijayapura

- PP-72** Aishwarya G and Somangouda G, Effect of bio stimulants on yield and economics of soybean.



- PP-73** Akash Chanabasappa Arakeri and Sangashetty G B alkunde, Effect of zinc application through different forms for improving wheat productivity under varied levels of irrigation.
- PP-74** Sravani A and Chandrashekara C P, Nutrient management in cotton green gram intercropping system through natural and organic farming practices.
- PP-75** Bhavana V N and Babalad H B, Evaluation of different farming practices in pigeonpea and cotton based intercropping system
- PP-76** Darshan H P and Chidanand P Mansur, Yield cropping system indices and economics of brown top millet as influenced by different intercropping system.
- PP-77** Gadda Lokesh and Nooli S S, Response of Sugarcane to silicon nutrition.
- PP-78** Harshith lal D and Matiwade P S, Effect of silicon application on yield and yield attributes under different irrigation levels.
- PP-79** Keerthana B and Shashidhara G B, Response of buck wheat to different levels of irrigation in rabi season.
- PP-80** Varsha M M and Shanwad U K, T Studies on response of finger millet and foxtail millet to organic nutrient management in black and red soils of northern transition zone of Karnataka.
- PP-81** Madhumati B Hosakeri and Hosmath J A, Herbicides effect on weed flora in sesame (*Sesamum indicum*) ecosystem.
- PP-82** Manojkumar S and Basavarajappa R, Intercropping of buckwheat with chickpea and linseed under northern Transition zone of Karnataka.
- PP-83** Rakesh A N and Kumar D Lamani, Effect of seaweed extract on yield parameters in Irrigated Wheat.
- PP-84** Sujit Shivasimpiger and Bandiwaddar T T, Response of rabi sorghum to boron nutrition.



- PP-85** Sushma S M and Chandrashekhara C P, Nutrient management in maize through liquid manures in organic and natural farming.
- PP-86** Tebogo Mokenti and Basavaraj S Yenagi, Response of groundnut to foliar nutrition of urea phosphate.
- PP-87** Tejashwini A and Sudha T, Response of buckwheat to different sowing windows and varied fertility levels on yield parameters in rabi season.
- PP-88** Vinay Uday Kumar, Hallikeri S S, Bidari B I and Shanwad U K, Nitrogen Substitution through different organic manures in colour cotton under rainfed ecosystem.
- PP-89** Manasa Yand Aravinda Kumar B N, Assessment of root traits and yield of rabisorghum genotypes.
- PP-90** Akshata Mangond and Nandagavi R A, Onion response to soil application of micronutrients.
- PP-91** Durugappa Bovi and Kalaghatagi S B, Nutrient management in cowpea [*Vigna unguiculata* L.] through natural farming practices.
- PP-92** Girish K S and Negalur R B, Weed management in irrigated chickpea (*Cicer arietinum* L.).
- PP-93** Gurusiddappa Nagappa Sasalatti and Patil S B, Pearl millet growth and yield response to nano and non-nano based fertilizers.
- PP-94** Pooja M B and Patil M B, Weed management in pigeon pea
- PP-95** Paluchani Meghana Reddy and Nadagouda B T, Nutrient management in pearl millet through organics.
- PP-96** Pundalik Venkappa Jadav and Nandagavi R A, Transplanted pigeonpea techniques for northern dry zone of Karnataka.
- PP-97** Revanasidda Kadagol and Sadhana R Babar, Influence of weed management practices on growth and yield of pearl millet [*Pennisetum glaucum* (L.)].



- PP-98** Usha N and Patil S B, Micro climatic variation and its relationship with yield under changing weather scenarios in pigeonpea.
- PP-99** Navanath Nayak and S S Angadi, Effect of stages and levels of de-topping on yield and yield parameters of *rabi* maize
- PP-100** Sujit Shivasimpiger and Bandiwaddar T T, Response of *rabi* sorghum to boron nutrition
- PP-101** Keerthi H P and Biradar S A, Response of buckwheat (*Fagopyrum esculentum* Moench.) genotypes to nutrient levels.
- PP-102** Yalamareddy Kiranmai and Potdar M P, Moisture stress assessment in *rabi* maize using proximal sensor and drone mounted multispectral sensor.

2. Department of Agricultural Microbiology, College of Agriculture, Dharwad

- PP-103** Shravani B and Vithal Navi, Effect of inoculation of diverse microbes on growth of maize.
- PP-104** Chaithra B S and Jones Nirmalnath P, Herbicide tolerant plant growth promoting pink pigmented facultative methylotrophs.
- PP-105** Ganesha and Geeta D Goudar, Isolation and Characterization of lipase producing bacteria.
- PP-106** Nandhish G H and Santhosh G P, Isolation, Characterization and screening of PPFM against *Alternaria solani* of tomato.
- PP-107** Sahana M and Ashwini M Screening for efficient lactic acid bacteria for the production of lactic acid.
- PP-108** Sahana Siddappa Betageri and Sreenivasa M N, Screening of bacteria from Jeevamrutha and Ghanajeevamrutha for their biocontrol activity against *Sclerotium rolfsii*.
- PP-109** Sindhushree R L and Patil C R, Studies on formulations of *Gluconacetobacter*, *Pseudomonas striata*, *Bacillus* sp. and AM fungus as biofertilizer consortium.



- PP-110** Suman J Kankanwadi and Geeta D Goudar, Isolation and characterization of yeast isolates for bio ethanol production.
- PP-111** Vandhana P and Vithal Navi, Inoculation effect of beneficial microorganisms on growth and yield of chilli.
- PP-112** Veena Kallappa Thakai and Ashwini M Evaluation of antimicrobial activity of the edible coatings.
- PP-113** Hirudhaya Ravi and P. Jones Nirmalnath, Herbicide Tolerant Arbuscular Mycorrhizal Fungi

3. Department of Agricultural Meteorology, College of Agriculture, Dharwad

- PP-114** Divya R and Sumesh K G, Calibration and Validation of DSSAT-CROPGRO- cotton model for six Bt. Cotton hybrids.
- PP-115** Mahadeva Prasad A C and Patil R H, Historical and projected trend analysis of rainfall over North Interior Karnataka.
- PP-116** Praveen R Patil and Shanwad U K, Estimation of crop water productivity over Malaprabha command area using remote sensing and GIS techniques.
- PP-117** Vishwanath Venkappa Maraddi and Sumesh K G, Trend analysis of historical and projected rainfall of south interior Karnataka.

4. Department of Horticulture, College of Agriculture, Dharwad

- PP-118** Chidanand K M and Sunita Johri, Screening of advance potato hybrids for bulking and yield attributing characters.
- PP-119** Kousalya Bai J M and Biradar M S, Studies on performance of strawberry cultivars under Northern transitional tract of Karnataka.
- PP-120** Malini M and Ramangouda V Patil, Response of ridge gourd {*Luffa acutangula*(L.)Roxb.} to foliar application of growth regulators and micronutrients.



- PP-121** Manjunath U and Hiremath S M, Evaluation of rabi onion (*Alliumcepa* L.) genotypes in northern Karnataka.
- PP-122** Mithun Kumar K S and Angadi S G, Effect of plant growth regulators and micronutrients on yield and quality of bottlegourd.
- PP-123** Renuka Sanda and Agasimani D, Response of gibberellic acid on different varieties of Chinaaster [*Callistephus chinensis* (L.)Nees].
- PP-124** Srushti V and Shashidhar T R, Genetic variability studies in peas (*Pisumsativum* L.) for yield and yield attributes.
- PP-125** Subhalaxmi Senapati and Patil V S, Effect of bio-organic agents and biofertilizers on yield and quality of African marigold
- PP-126** Sushma and Venugopal C K , Performance of Cowhage [*Mucuna pruriens* var. *utilis* (Wight) Burck] varieties under non-staked conditions.
- PP-127** Vaishnavi G and Patil V S, Effect of micronutrients on tuberose (*Polianthesu berosa* L.) var. Prajwal.

5. Department of Soil Science and Agriculture Chemistry, College of Agriculture, Dharwad

- PP-128** Abilash AR, Use of nano urea as a Supplement to Topdressing in Rice.
- PP-129** Aishwarya and Vijay Kumar C, Effect of drip irrigation and fertigation on growth and yield of sunflower in a vertisol.
- PP-130** Annapurna and Bidari B I, Yield and Yield attributes of Byadgi Chilli [*Capsicum annum*L.] in response to sources and levels of sulphur application in a Vertisol.
- PP-131** Anusha R L and Hundekar S T, Leaf nutrients status vs. Quality attributes of guava fruits in few orchards of Dharwad/Gadag districts.



- PP-132** Fidha Husna K and Punitha B C, Characterization of different organic sources for their physical, chemical and biological properties.
- PP-133** Poojar S and Gundlur S S , Biofortification of wheat (*Triticum aestivum* L.) with zinc through foliar spray.
- PP-134** Premalatha J R and Vidyavathi G Y, Boron nutrition in safflower (*Carthamu stinctorius* L.).
- PP-135** Renukavardhan Reddy N and Jagadeesh B R, Effect of nano zinc on yield and yield attributes of Paddy.
- PP-136** Shivani Barman and Hebbara M, Effect of Fe-fortified humic acid and humic substances on growth and yield of groundnut grown in a calcareous Vertisol.

Group – III

[Agricultural Entomology and Plant Pathology]

1. Department of Entomology, College of Agriculture, Dharwad and Vijayapura

- PP-137** Darshan M and Prasanna P M, Seasonal incidence of insect pests of paddy during *kharif* 2021-22.
- PP-138** Manu M and Mahabaleshwar G Hegde, Survey of Tuta absoluta (Meyrick) in major tomato growing areas of Karnataka.
- PP-139** Vidya K R and Shiddalingappa V Hugar, Effect of silica on incidence of fall armyworm, *Spodoptera frugiperda* in maize.
- PP-140** Kolli Bharghavi and Rohini Sugandi, Management of green semilooper, *Thysanoplusia orichalcea* (Fab) in groundnut during *kharif*.
- PP-141** Supriya G Attigeri and Subhash B Kandkoo, Pollinator diversity in onion seed production.
- PP-142** Veeresh and Rafee C M, Management of whitefly and yellow mosaic disease (YMD) in greengram during summer.



- PP-143** Rohit Rajgouda Patil and Gundannavar G P, Documentation of different pests and their natural enemies on tomato.
- PP-144** Shweta Kadadi and Guruprasad G S, Screening of different maize germ plasm lines for resistance to fall armyworm (*Spodoptera frugiperda*).
- PP-145** Suraiya A Attar and Channakeshava R, Evaluation of biorationals for the management of pod borer, *Cydia ptychora* in soybean.
- PP-146** Swathi Y and Ravikumar Hosamani, Influence of hyper gravity on mulberry silkworm growth and cocoon yield.
- PP-147** Shashank D U and Poornima V Matti, Bioefficacy studies of Bt cotton events against field collected Pink bollworm larvae.
- PP-148** Chava Asritha and Kambrekar D N, Studies on the impact of different marginal crops on pollinator activity in onion.
- PP-149** Chavan Nikita Vijay and Guruprasad G S, Assessment of toxicity response of *Spodoptera litura* to the selected insecticides.
- PP-150** Parvati Kakari and Shaila H M, Assessment of biochemical parameters associated with sorghum shoot fly.
- PP-151** Ramesha N M and Rafee C M, Management of carrot root borer, *Melanagromyza* sp. in *Daucus carota* L.
- PP-152** Bharath R and Roopa S Patil, Survey on the incidence of red palm weevil, *Rhynchophorus ferrugineus* (Olivier) in Arecanut.
- PP-153** Ganavi S R and Kulkarni N S, Eco-friendly management of fall army worm, *Spodoptera frugiperda* (J. E. Smith) in fodder maize.
- PP-154** Logeswara N K and Kambrekar D N Efficacy of botanicals for the management of sucking pests of capsicum under protected cultivation.



- PP-155** Sujith K M and Veeranna R, Studies on biology of field bean pod borer, *Adisura atkinsoni* Moore.
- PP-156** Likhith K H and Prakash. H. T, Studies on biology of sugarcane whitefly, *Aleurolobus barodensis* (Maskell).
- PP-157** G.Prashanth goud and Sunita. N.D, Population dynamics of major insect pests of brinjal during 2020-2021.
- PP-158** Pratibha V. Kanakappanavar and A. P. Biradar, Studies on red spider mite, *Tetranychus macfarlanei* Baker and Pritchard infesting Okra.
- PP-159** Remedias Presca DCosta and Sunitha N.D, Yield loss caused by cerambycid wood borers *Celosterna scabrator* Fab. and *Stromatium barbatum* Fab. in grapevine.
- PP-160** Sharath K.N. and S. S. Chavan, Population dynamics of major pests of tomato during rabi 2021-2022.

**2. Department of Plant Pathology, College of Agriculture,
Dharwad and Vijayapura**

- PP-161** Ashwini K and Prabhavathi N Rao, Survey for incidence of *fusarium* wilt of safflower in major safflower growing districts of north Karnataka.
- PP-162** Chaitra G and Nagaraju P, Integrated management of stem rot of groundnut caused by *Sclerotium rolfsii* Sacc.
- PP-163** Gangadhar and Venkatesh Kulkarni, Assessing compatibility of seed dressing chemicals with bioagents in Bt cotton.
- PP-164** Hithendra T and Palakshappa M G, Management of mycoflora associated with sesame seed.
- PP-165** Kruthika R and Harlapur S I, Evaluation of seed dressing fungicides and bioagents against seed borne fungal infection of maize.



- PP-166** Kumar Rathod and Ravi Kumar M R, Cultural characterization of *colletotrichum gloeosporioides* causing leaf spot of ginger.
- PP-167** Mallikarjun and Harlapur S I, Biochemical basis of resistance to turcicum leaf blight of maize caused by *Exserohilum turcicum* (pass.) leonard and suggs.
- PP-168** Manikchandra Patil and Palakshappa M G, Management of *mycoflora* associated with niger seeds.
- PP-169** Meghasree Devaiah and Gurudatt M Hegde, Management of *Fusarium* head blight in Wheat.
- PP-170** Rekha Y and Venkatesh Kulkarni, Bioefficacy of bacterial endophytes against *Rhizoctonia bataticola* (Taub.) Butler causing dry root rot of chickpea.
- PP-171** Revathi C and Shalini Huilgol, Screening of Soybean genotypes and germplasm lines against rust caused by *Phakopsora pachyrhizi* Syd.
- PP-172** Rohit Mallappa Karchi and Gurupad Balol, Molecular detection and characterization of MYMV isolates of mungbean.
- PP-173** Saikumar C Gundad and Nagaraju P, *Aspergillus flavus* L. Ex Fries infection of groundnut in different parts of northern Karnataka.
- PP-174** Shanthala H and Shalini Huilgol, Synthesis and *in-vitro* evaluation of silvermyco nanoparticles against *Macrophomina phaseolina* (Tassi) Goid.
- PP-175** Shantha K N and Kalappanavar I K, Management of chickpea rust caused by *Uromyces ciceris-arietini* (Grognot.) Jacz and Boy.
- PP-176** Siril P S and Gurupad Balol, Screening of pigeonpea genotypes for resistance to sterility mosaic disease.



- PP-177** Tejaskumar M K and Ravikumar M R, To evaluate the bio efficacy of isolated plant growth promoting rhizobacteria (PGPRs) against *Ralstonia solanacearum* causing bacterial wilt in ginger under *in vitro* conditions.
- PP-178** Thippesha B S and Hiremath S V, *In vitro* evaluation of rhizospheric bacterial biocontrol agents against *Rhizoctonia solani* Kuhn causing sheath blight of rice.
- PP-179** Vamshika V N and Kalappanavar I K, Management of mango anthracnose caused by *Colletotrichum gloeosporioides* (Penz.) Penz & Sacc.
- PP-180** Sanju Jalli and Arun R Sataraddi, *In vivo* evaluation of fungicides botanical sand bio-agents against soybean rust caused by *Phakospora pachyrhizi* (Sydow).
- PP-181** Shanthala Patil and Shivlingappa Hotkar, Management of greengram powdery mildew by using fungicide formulations, bioagents and botanical sunder field conditions.
- PP-182** Shivaleela Sajjan and Syeda Samina Anjum, *In vitro* evaluation of fungicides against *Fusarium solani* (Mart.) Sacc. inciting dry root rot/wilt of acidlime in northern Karnataka.
- PP-183** Bharathi K B and Prema G U, Population dynamics of the leaf hopper transmitting *sesamum phyllody* phytoplasma disease.
- PP-184** Abhilash J. H. and Vastrad S. M., *In vitro* bio assay of fungicides and bio-agents against dry root rot of Pigeonpea [*Macrophomina phaseolina* (Tassi) Goid.].



Group -IV

**[Agribusiness Management, Agricultural Economics,
Agricultural Extension Education and Agricultural Statistics]**

1. Department of Agribusiness Management, College of Agriculture, Dharwad

- PP-185** Juber Ahmed Bichhumani and Murthy C, Area, production and productivity of major vegetables in Karnataka.
- PP-186** Ashwin B P and Kerur N M, Farmer's behaviour of maize seeds in Karnataka.
- PP-187** Hannah Therese Joseph and Yeledhalli R A, Trends in MSP for various crops in Karnataka.
- PP-188** Siddappa B Vagga and Vilas S Kulkarni, Growth and Composition of Livestock in Karnataka.
- PP-189** Swati Prakash Relekar and Mitrannavar D H, Empirical analysis of Vijayapura and Bagalkot milk union ltd.

2. Department of Agricultural Economics, College of Agriculture, Dharwad

- PP-190** Athira S and Guledagudda S S, Trends in area, production and productivity of coconut.
- PP-191** Chaithanya M K and Kiresur V R, An Assessment of Impact of Covid-19 on Income and Employment of Farm Households in Dharwad District.
- PP-192** Raksha N Habbu and Kulkarni G N, Dynamics of Livestock Population in Karnataka and Uttara Kannada District.
- PP-193** Chaithra R K and Balachandra K Naik, Analysis of Growth in Rose Cultivation.
- PP-194** Kavyashree D R and Balachandra K Naik, An Analysis of growth performance of plant nurseries in Karnataka.



- PP-195** Hemanth D B and Teggi M Y, Analysis of growth performance of green gram production.
- PP-196** Akshata Annasab Magadum and Patil B L, Constraints faced by farmers during COVID-19 pandemic in Belagavi district.
- PP-197** Vijayakumar J S and Jamakhandi B R, Trends in Area, production and productivity of tomato in Karnataka.

3. Department of Agricultural Extension Education, College of Agriculture, Dharwad

- PP-198** Abhijeet Panashetti and Dolli S S, Role of dairy as a subsidiary occupation in livelihood security of the farmers.
- PP-199** Chanadana L and Halakatti SV, A study on Knowledge about functioning of FPOs in Dharwad District.
- PP-200** Gowtham A M and Belli R B, Constraints faced by farmers in adoption of Chickpea production technologies of UAS Dharwad.
- PP-201** Harish N and Nithyashree D A, A Comparative Study on High density and Regular planting of Guava in Dharwad district
- PP-202** Mareshbasappateli and Gotyal S H, Analysis on adoption of Sugarcane production Technologies by the farmers of North Karnataka.
- PP-203** Mallikarjun Mirji and Aski S G, Knowledge level of farmers about Redgram production Technologies of UAS Dharwad.
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- PP-206** Shameem Kaouser and Bheemappa A, Adoption of natural farming practices by farmers of northern transition zone of Karnataka.



- PP-207** Sumathi J and Jahagirdar K A, Constraint analysis of wheat growers of north Karnataka.
- PP-208** Vidyakumar Jagalur and Manwlan, Constraints faced and suggestions given by backyard poultry farmers of North Karnataka.
- PP-209** Vismaya K C and Dolli S S, Impact of natural calamities on socio-economic status of the dairy farmers.
- PP-210** Aparna Jayan R. and S. L. Patil, Relationship between profile and extent of use of extension teaching methods by extension personnel.

4. Department of Agricultural Statistics, College of Agriculture, Dharwad

- PP-211** Aman Vasisht and Ashalatha K V, Statistical study on paradigm shift in cropping pattern in Himachal Pradesh.
- PP-212** Kirankumar G and Ashalatha K V, Comparative performance of linear regression and ARIMA models in banana price forecasting.
- PP-213** Mohan G S and Ashalatha K V, Statistical investigation of Covid-19 pandemic on market prices and arrivals of horticulture crops in Kolar district of Karnataka.
- PP-214** Pavan T and Ashalatha K V, Statistical evaluation on trend analysis of rainfall in Chitradurga district.
- PP-215** Pooja Hoolageri and Ashalatha K V, Statistical evaluation on milk procurement of Dharwad Milk Union Limited.



Group - V

[Family Resources Management, Food Science and Nutrition,
Human Development & Family Studies]

1. Department of Family Resource Management, College of Community Science, Dharwad

PP-216 Allea Rajitha and Renuka Salunke, Student problems with
class room interiors.

PP-217 Namburi Meenakshi and Renuka Salunke, Classroom
comport of students in special schools.

2. Department of Food Science and Nutrition, College of Community Science, Dharwad

PP-218 Aishwarya B Elemmi and Uma Kulkarni, Utility of buckwheat
leaves in traditional recipes for nutritional security.

PP-219 Sunilkumar K and Sarojani J Karakannavar, Millet based
products available in market.

PP-220 Kukatla Aishwarya and Kashibai Khydagi, Quality evaluation
of pearl millet varieties.

PP-221 Meghana G N and Hemalatha S, Optimizing the upscale
processing parameters for production of browntop millet
cookies.

PP-222 Prathika M P and Kashibai Khyadagi, Physico-chemical
composition of sorghum varieties.

PP-223 Riddhi Verma and Sarojani J Karakannavar, Development of
proso millet cookies.

PP-224 Sahana K and Hemalatha S, Nutritional and functional
characteristics of ingredients used in Kodo millet (*Paspalum
scrobiculatum*) cookies.



**3. Department of Human Development and Family Studies,
College of Community Science, Dharwad**

- PP-225** Rekha and Vinutha U Muktamath, Epidemiology of cerebral palsy among children in Dharwad Taluk of Northern Karnataka.
- PP-226** Harshitha G C and Manjula Patil, School readiness among rural and urban preschoolers during covid.
- PP-227** Sunita B Jamanal and Prema Patil, A study on job stress and mental health of bus conductors.
- PP-228** Liza Kalita and Manjula Patil, Assessment of academic aspirations among urban and rural adolescents of Dharwad and Kamrup.
- PP-229** Sapthagiri T V and Prema B Patil, A Study on quality of life and loneliness among institutionalized and non-institutionalized elderly during Covid-19 pandemic.

Group – VI

[Forest Biology & Tree Improvement, Forest Products & Utilization, Natural Resource Management and Silviculture and Agroforestry,]

1. Department of Forest Biology & Tree Improvement, College of Forestry, Sirsi

- PP-230** Imran Mannasaheb and Javaregowda, Evaluation of priming materials for mass queen rearing in *Apis cerena indica*
- PP-231** Dattappa and Vasudeva R, Evaluation of Half-sib progenies for growth traits in *Cinnamomum zeylanicum* Blume.
- PP-232** Rohan P L and Vasudeva R, Clonal variations for induced flowering in wild aromatic pickle, mango.
- PP-233** Hamsa Lahari and Vasudeva R, Novel clonal propagation techniques through leaves and mini-cutting in selected species.



PP-234 Ravi Kumar R and Suryanarayan V, Documentation, symptomology and molecular detection of yellow mosaic disease of *Melia dubia* Cav : A new study.

PP-235 Thrupthy Condamma AT and Suryanarayan V, Assessment of soil borne of *santalum album* L. and induced losses in major sandal growing nurseries of Karnataka.

2. Department of Forest Products & Utilization, College of Forestry, Sirsi

PP-236 Hulagappa B Bhajantri and Vinayak Upadhya, Morphometric analysis of *Achyranthes coynei* (Kempu Uttarani) – A Rare and Endemic Medicinal Plant.

PP-237 Nayana M D and Ramana P, Essential oil yield Variation in Wild Curry (*Murraya koenigii* [L] spreng) from Central Western Ghat Region of Uttara Kannada.

PP-238 Nitinkumar Bajaknavar and Hanumantha M, Influence of girth class, patch geometry and post bark extraction treatments on bark recovery in *Terminalia arjuna*.

PP-239 Sourav Manoharan and Hanumantha M, Variation for growth and bark parameters among different natural sources of *Cinnamomum zeylanicum* Blume. in Uttara Kannada district.

PP-240 Sujay S Malige and Manjunatha G O, Effect of different levels of nano urea on herbage yield and oil content of sacred basil (*Ocimum sanctum* Linn.) under silver oak plantation.

3. Department of Natural Resource Management, College of Forestry, Sirsi

PP-241 Anjan Kumar R and Girish B Shahapurmath, Marketing status of Non Timber Forest Product (NTFPs) species in Sirsi Forest Division.

PP-242 Murali K V and Koppad A G Establishment of Multi line argression equation model for above ground biomass of moist deciduous forest using remote sensing techniques.



- PP-243** Raji J Mohan and Gopal V Dasar, Forest Fire and its effect on soil chemical properties under different vegetation types in UttaraKannada District.
- PP-244** Shivakumar P S and Gopal V Dasar, Assessment of carbon sequestration under different forest types and density classes of UttaraKannada district.
- PP-245** Suma R and Koppad A G, Establishment of regression equation model for predicting above gr2_ and biomass for dry deciduous forest with SAR and optical remote sensing in Mundgod Taluk.
- PP-246** Umesh and Girish B Shahapurmath, Utilization pattern of *Terminalia chebula* Retz. in Sirsi Forest Division of Uttara Kannada district of Karnataka.

4. Department of Silviculture and Agroforestry, College of Forestry, Sirsi

- PP-247** Anusha Sanjay Revankar and Inamati S S, Studies on fruit morphometric traits of *Myristica dactyloides* in relation to stages of fruit maturity.
- PP-248** Chandan C S and Jagadish M R, Identification and developing spatial distribution map of scared Kaan forests in Sirsi taluk using GIS tools.
- PP-249** Chetan Bhanu Rathod and Jagadish M R, Performance of Mahogany under agroforestry system.
- PP-250** Jayashree Chikkamath & Channabasappa K S, Study on standardization of nursery techniques in selected bamboo species.
- PP-251** Shreyas R and Jagadish M R, Assessment of tree diversity in urban land uses paces of Hubli-Dharwad.
- PP-252** Swapnil S Nirwan and Raju L Chavan, Influence of in Mongrowth of Mahagony (*Swietenia mahagony* L.) based agroforestry system.



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