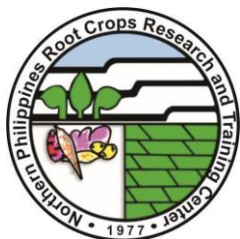


Northern Philippines Root Crops Research and Training Center (NPRCRTC)



- ✓ BPI accredited potato producer
- ✓ BPI accredited Plant Tissue Culture Facility

Email: nprcrtc@bsu.edu.ph.

FB: Bsu RootCrops

Research Programs/Projects

Research Title	Researchers	Status
Program: INTEGRATED POTATO RESEARCH, DEVELOPMENT & EXTENSION		
Project: Production of improved quality plant materials on potato, sweetpotato and purple yam to enhance production	Cynthia G. Kiswa Andres A. Basalong Teresita D. Masangcay Grace S. Backian Ines C. Gonzales Joan D. Bacbac (DA-CAR) Gabby K. Dao-ines Jennie B. Balao Glory Ann A. Bolon Patricia K. Akiate Nobel Tayan Asuncion L. Nagpala Jophr L. Galian Elvira G. Balinsoy Marilou M. Salavaria	Completed
Project: Survey of Plant Parasitic Nematodes and potential Biocon Agents Prevalent in White Potato Growing Areas in Benguet and Mt. Province	Asuncion L. Nagpala Lyn J. Talkasen Nordalyn B. Pedroche Judith G. Lawilao Jophr I. Galian Teresita D. Masangcay Joan D. Bacbac	Completed
Project: Commercialization of Quality Seed Potato thru the Standardized Seed Production System	Cynthia G. Kiswa Jocelyn C. Perez Teresita D. Masangcay Gabby K. Dao-ines Jennie B. Balao Arlene B. Bautista Monica S. Gambican Jophr L. Galian Patricia K. Akiate	Completed

Research Title	Researchers	Status
	Leah May P. Tayan	
Project: Integrated Pest Management of Potato	Cynthia G. Kiswa Teresita D. Masangcay Isidro B. Awal Esther T. Botangen Gabby K. Dao-ines Jennie B. Balao Arlene B. Bautista Ines C. Gonzales	Completed
Project: Commercialization and Promotion of processing potato varieties thru rapid multiplication technique	Ines C. Gonzales Cynthia G. Kiswa Teresita D. Masangcay Jennie B. Balao Cleje Ail B. Dogyang Roger T. Gayumba	Completed
Institutions and Industrial Competitiveness: Niche Centers in the Regions for R&D (NICER) Program: Potato R&D Center		
<p>Project 1: Development of Insect Pests and Disease Management of Quality Seed Production</p> <p>Study 1. Characterization of important quarantine insect pests and diseases of seed potato</p> <p>Study 2. Mapping potato cyst nematode and bacterial wilt in potato production areas</p> <p>Study 3. Population dynamics of insect pests in field and storage</p> <p>Study 4. Development of viable and environment friendly integrated crop management system</p> <p>Study 5. Serological and molecular detection techniques of quarantine and other important diseases</p> <p>Project 2: Enhancing the Micropropagation System of Potato</p> <p>Study 1. Regeneration of Preferred Potato Varieties</p> <p>Study 2. Genetic Stability Test of Repeated Sub-culturing Microplant</p> <p>Study 3. Microtuberization of Preferred Varieties</p> <p>Study 4. Improvement of Tissue Culture Laboratory facilities to Enhance Micropropagation System</p>	<p>Jocelyn C. Perez Teresita D. Masangcay Grace S. Backian Ammie D. Ngaotoy Marcelyn C. Galinato Cole C. Malucay</p> <p>Cynthia G. Kiswa Gabby K. Dao-ines Jennie B. Balao Shannon M. Lacquias</p>	Ongoing

Research Title	Researchers	Status
<p>Project 3: Application of Improved Cultivation System and Storage Technique for Potato Seed Production</p> <p>Study 1. Upgrading the Existing Aeroponic System</p> <p>Study 2. Application of Drip Irrigation System in Conventional Potato Seed Production</p> <p>Study 3. Field Performance of Potatoes Using Seed Tubers Produced from Hydroponics and Improved Conventional Seed Production System</p> <p>Study 4. Improvement of Storage Facility and Techniques for Storing Potato Seed Tuber</p>	<p>Isidro B. Awal Jophr L. Galian Johnny G. Dati Diostonee A. Balinte Albert M. Lab-oyan</p>	
<p>Project: Techno-transfer of the Improved Technology on the Propagation of Potato Quality Planting Materials to SRT Cooperative: A Participatory Assessment and Impact Evaluation</p>	<p>Cynthia G. Kiswa Teresita D. Masangcay Dalen T. Meldoz Arlene B. Bautista Gabby K. Dao-ines</p>	Ongoing
<p>Project: Coconut Water as Bio-Stimulant to the Production of Seed and Ware Potatoes</p> <p>Study. Field Potato Production Using Coconut Water as Source of Plant Growth Regulator</p>	<p>Nestor E. Pilayan Esther T. Botangen Joyce K. Mama-o Gabby K. Dao-ines Viona Y. Cadiog</p>	Ongoing
<p>Project: Establishment of the Potato R&D Center Molecular Laboratory for Increased Productivity and Efficiency</p>	<p>Jocelyn C. Perez Ammie D. Ngaotoy</p>	Ongoing
<p>Program: Development and Selection of Resilient Varieties for a More Sustainable and Competitive Potato Industry in the Philippines</p>		
<p>Project 1: Researcher-led Evaluation of Novel Potato Genotypes for Adaption and Important Traits</p> <p>Study 1: Evaluation of new potato varieties (fresh market and processing types) with stable high yield (slow degeneration), good storability and improved eating and/or processing qualities</p> <p>Study 2: Evaluation of new potato varieties (fresh market and</p>	<p>Belinda A. Tad-awan Roger T. Gayumba Ammie D. Ngaotoy Cleje Ail B. Dogyang Mark L. Pedro Analiza V. Alzate</p>	Ongoing

Research Title	Researchers	Status
processing types) with resistance to important insect pests, diseases and tolerance to environmental stresses		
Project: Improving Seed Health and Yield Performance by Positive Selection in Granola and Igorota Varieties	Grace S. Backian Teresita D. Masangcay Arlene B. Bautista Gabby K. Dao-ines	Ongoing
Program: INTEGRATED SWEETPOTATO RESEARCH, DEVELOPMENT & EXTENSION		
Program: Production and Processing of Orange- fleshed Sweetpotato (OFSP) in Vitamin A Deficiency Risk Areas of Cordillera Administrative Region (CAR)		
Project 1. Pilot production of OSFP varieties in CAR (6 provinces) Project 2. Technology Commercialization of OFSP	Ines C. Gonzales Hilda L. Quindara Cynthia G. Kiswa Isidro A. Awal Roger T. Gayumba Esther T. Botangen Pelín B. Belino Jophr L. Galian Nestor Pilayan Joyce Mama-o Arlene Bautista Fraida T. Awayan Analiza T. Alzate	Completed
Project: Promotion and Commercialization of Orange-fleshed Sweetpotato (OFSP) in Vitamin A Deficiency Areas in Cordillera Region	Ines C. Gonzales Isidro B. Awal Roger T. Gayumba Hilda L. Quindara Esther T. Botangen Pelín B. Belino Joyce K. Mama-o Analiza V. Alzate Lusila L. Cagas Fraida T. Awayan	Completed
Project: Postharvest and Quality Assessment of Selected Sweetpotato Varieties	Esther T. Botangen Nestor E. Pilayan Joyce K. Mama-o Viona Y. Cadiog	Completed
Management of Fusarium Wilt and Root Associated with Sweet Potato	Asuncion L. Nagpala Jophr L. Galian Elvira G. Balinsoy	Completed
Project: Evaluation of Integrated Pest Strategies for Sweetpotato Fusarium Wilt Study 1. Soil Application of Amendments and Bio-Pesticide to	Teresita D. Masangcay Analiza V. Alzate Jennie B. Balao Ammie D. Ngaotoy Joyce K. Mama-o	Ongoing

Research Title	Researchers	Status
Manage Soil-borne Fusarium Wilt Disease of Sweetpotato (On-station)		
Project: Application of Integrated Pest Management of Sweetpotato Fusarium Wilt	Cynthia G. Kiswa Teresita D. Masangcay Isidro B. Awal Johpr L. Galian Ines C. Gonzales Jennie B. Balao Analiza V. Alzate	Ongoing
Season-long Training in Mitigating the Effects of Sweetpotato Fusarium Wilt in Severely Infested Areas in Benguet	Grace S. Backian Teresita D. Masangcay Jophr L. Galian Cleje Ail B. Dogyang	Ongoing
Program: LEGUME RESEARCH, DEVELOPMENT & EXTENSION		
Project: Commercialization and pilot testing of nutria legume-based food products	Fernando Gonzales Ines C. Gonzales Roger T. Gayumba Esther T. Botangen Hilda L. Quindara Pelin B. Belino	Completed
Program: YAM RESEARCH, DEVELOPMENT & EXTENSION		
Project 1. Conservation, characterization, evaluation and utilization of yam in partnership with farmers in Benguet Project 2. Propagation of improved quality planting materials of yam to enhance production	Grace S. Backian Betty T. Gayao Dalen T. Meldoz Esther T. Botangen Vecker N. Tero	Completed
Program: Purple yam (<i>Dioscorea alata</i> Linn.) Quality Plant Material Production through Aeroponics		
Project: Purple Yam (<i>Dioscorea alata</i> Linn.) Quality Plant Material Production thru Aeroponics Study 1. Nutrient Solution for Aeroponic Cultivation of Plant Materials Study 2. Evaluation on the types of plant material for Aeroponic Cultivation Study 3. Repetitive Harvesting Seed Tubers from Aeroponic Cultivation Study 4. Dormancy Period of Seed Tubers Derived from Aeroponic Cultivation Study 5. Adaptability trial of the four	Cynthia G. Kiswa Jophr L. Galian Jake L. Galian Gabby K. Dao-Ines Winslet Ramos Vanessa Maye E. Kalinggan	Ongoing

Research Title	Researchers	Status
purple yam varieties in three ecological zones		
<p>Project: Commercialization of Quality Purple Yam (<i>Dioscorea alata</i>) Minisett Planting Materials Towards Enhance Productivity</p> <p>Study 1. Production of Initial Planting Materials</p> <p>Study 2. Commercialization of the Yam Minisett Planting Materials of the Market Preferred Yam Varieties</p> <p>Study 3. Production of Ware Yam for Processing</p>	<p>Violeta Salda Grace S. Backian Dalen T. Meldoz Johnny G. Dati</p>	Ongoing
<p>Project: Development of Galiang (<i>Xanthosomas sagittifolium</i>) for the Production of Baked and Candied Products and the Genders Acceptability Towards These Products</p> <p>Study 1. Optimum substitution Level for Wheat-Galiang Bread and Cookies</p> <p>Study 2. Galiang jam as filling for bars and cupcakes</p> <p>Study 3. Potentials of Galing for Preparing Candied Products</p> <p>Study 4. Shelf life and Nutritional Fact of Developed Food Products</p> <p>Study 5. Acceptability Towards Developed Galiang Food Products as Influenced by Gender and Age</p> <p>Study 6. Market Testing and Promotion of Developed Galiang Food Products</p>	<p>Esther T. Botangen Nestor E. Pilayan Dalen T. Meldoz Joyce K. Mama-o Viona Y. Cadiog</p>	Ongoing
<p>Project: Participatory Variety Selection of Taro Germplasm</p> <p>Study 1. Selection for Location Specific under Benguet Condition</p> <p>Study 2. Selection, Adaption and Acceptability of New NCT Taro Entries under Benguet Condition</p> <p>Study 3. Pilot and Market Test of New NCT Taro Entries for Specific Use</p> <p>Study 4. Suitability of New NCT Taro Entries for Specific Use</p>	<p>Ammie D. Ngaotoy Isidro B. Awal Nestor E. Pilayan Joyce K. Mama-o</p>	Ongoing

Research Title	Researchers	Status
Program: CASSAVA RESEARCH, DEVELOPMENT & EXTENSION		
<p>Production and Value Adding Technologies for Cassava to Alleviate Poverty Among Marginal Farmers in Benguet</p> <p>Study 1. Appropriate Cropping System for Cassava</p> <p>Study 1a. Root Yield Performance of Cassava as Affected by Different Ground Cover Crops in Sloping Areas.</p> <p>Study 1b. Performance of Cassava Intercrop with Cash Crop</p> <p>Study 2. Participatory Production and Marketing of Cassava Food Products</p> <p>Study 2a. Participative Analysis of the Market Chain Opportunities</p> <p>Study 2b. Pilot Production on the Processing of Cassava with Market Potentials</p> <p>Study 2c. Marketing Potential of Cassava Food Products with Profitable Analysis</p>	<p>Isidro B. Awal Roger T. Gayumba Esther T. Botangen Dalen T. Meldoz Nestor E. Pilayan Joyce K. Mama-o Viona Y. Cadiog</p>	Ongoing
<p>Cassava-based Intercropping Systems: A Farmer Participatory Research for Sustainable Pest Management</p> <p>Study 1. Incidence and Severity of Major Insect Pests and Diseases of Component Crops under Different Intercropping Systems of Cassava</p> <p>Study 2. Diversity/Population of Beneficial Insects/Natural Enemies and Biological Control Agents (BCAs) under Different Cropping Systems</p> <p>Study 3. Effect of Cassava-based Cropping Combinations on Weed Growth</p>	<p>Ammie D. Ngaotoy Roger T. Gayumba</p>	Ongoing
Program: MINOR ROOT CROPS RESEARCH, DEVELOPMENT & EXTENSION		
<p>Project: Impact of Rootcrops Processing Trainings on Women's Livelihood and Household Food Consumption</p>	<p>Dalen T. Meldoz Joyce K. Mama-o Esther T. Botangen Dalen T. Meldoz Sherilyn B. Balauro</p>	Completed

Research Title	Researchers	Status
Project: Documentation, conservation, characterization and evaluation of minor root crops	Dalen T. Meldoz Esther T. Botangen Grace S. Backian Isidro B. Awal Vecker Tero Joyce K. Mama-o Roger T. Gayumba	Completed
Project: Rootcrop pest and diseases currently affecting livelihood and food security of indigenous people in Benguet and Nueva Vizcaya	Grace S. Backian Jophr L. Galian Ammie D. Nga-otoy	Completed
Project: Development and Piloting of Rapid Multiplication Technique of Ginger and Turmeric	Cynthia G. Kiswa Jophr L. Galian Gabby K. Dao-ines Teresita D. Masangcay Jennie B. Balao Jake L. Galian Nestor E. Pilayan John D. Dolinas, Jr. Patricia K. Akiate	Ongoing
Project: Project: Root Crop Pest and Diseases Currently Affecting Livelihood and Food Security of Indigenous Farmers in Benguet and Nueva Viscaya	Grace S. Backian Ammie D. Ngaotoy Jophr L. Galian Dalen T. Meldoz	
Project: Product Development of Wines, Vodka and Brandy Using Local Rice, Root and Fruit Crops	Ammie D. Ngaotoy Esther T. Botangen Isidro B. Awal Roger T. Gayumba	Ongoing