## 2020 R & E ANNUAL REPORT

## I. RESEARCH

### A. COMPLETED RESEARCHES

A total of sixty four (64) research studies were completed for the year 2020.

Table 1. Completed Researches

| Office         | Studies Completed |
|----------------|-------------------|
| HERRC          | 20                |
| HORTI          | 3                 |
| IHFSA          | 3                 |
| GeoInformatics | 3                 |
| ISRD           | 15                |
| CSAC           | 4                 |
| NPRCRTC        | 11                |
| CAS            | 4                 |
| CCARD          | 1                 |

## **B. PUBLICATIONS**

Twenty-one (21) research articles were published in international peer reviewed refereed journals and 23 published in national refereed journal as follows:

Table 2. Research Articles Published in Refereed Journals

|   | Title of Article  | Author(s)   | Name of Journal / Book                          |
|---|---|---|---|
| 1 | Morpho-anatomical characterization of Rhododendron subsessile Rendle, an endangered species of the Cordillera Central Range, Philippines  | Mabel Grace V. Bitayan,<br>Starleeñe S. Cervantes, Jones<br>T. Napaldet | Journal of Forestry Research                    |
| 2 | Confirmed record of Spongospora subterranea subsp. subterranea in potato cv. Igorota in Northern Philippines and the susceptibility of tomato cv. Yellow plum to Spongospora root infection | Teresita Masangcay, Mark<br>Angelo Balendres                            | Archives of Phytopathology and Plant Protection |
| 3 | Absorption of Lead and Mercury in Dominant Aquatic Macrophytes of Balili Riverv and its Implications to Phytoremediation of Water Bodies  | Jones T. Napaldet, Inocencio<br>E. Buot Jr.                             | Tropical Life Sciences<br>Research              |
| 4 | Adoption and economic analysis of using biological control in Philippine highland farms: Case of Trichoderma koningii strain KA   | Cheryll C.Launio, Kacy<br>O.Labon, Alladin M.Bañez,<br>Ruth S.Batani    | Crop Protection                                 |

|    | Title of Article  | Author(s)   | Name of Journal / Book  |
|----|---|---|---|
| 5  | Nonlinear Height-DBH Model<br>Analysis For Three Tropical Tree<br>Species In Mt. Makiling, Philippines  | Nova D. Doyog, Roscinto Ian<br>C Lumbres,Feliciano G. Calora<br>Jr.,Nelson M. Pampolina,<br>Michelle D. Gamboa,Dante S.<br>Chichioco, Young Jin Lee                                       | Journal of Sustainable<br>Forestry  |
| 6  | Awareness and Compliance on<br>Waste Segregation: Implication to a<br>Waste Management Program in a<br>University   | Bretel B. Dolipas, Jennifer Lyn<br>S. Ramos, Monica S.<br>Alimondo, Phil S. Ocampo,<br>Danni Loven A. Fulwani   | Athens Journal of Sciences  |
| 7  | Ecological services of agroforestry systems in selected upland farming communities in the Philippines   | Romnick S. Baliton, Leila D.<br>Landicho, Rowena Esperanza<br>D. Cabahug, Roselyn F.<br>Paelmo, Kenneth A. Laruan,<br>Ramil S. Rodriquez, Roberto<br>G. Visco, Arnold Karl A.<br>Castillo | BIODIVERSITAS   |
| 8  | Identification of quantitative trait loci<br>underlying resistance and tolerance<br>to the rice root-knot nematode,<br>Meloidogyne graminicola, in Asian<br>rice (Oryza sativa) | Judith Galeng-Lawilao, B. P.<br>Mallikarjuna Swamy, Tapas<br>Kumer Hore, Arvind Kumar,<br>Dirk De Waele   | Molecular Breeding  |
| 9  | Chemical Wastes Management in<br>Stem Academic Laboratories of<br>Baguio City, Philippines: Challenges<br>and intervention scheme   | Francisco L. Soriano, Luisita<br>L. Ely   | International Journal of<br>Environment, Ecology, Family<br>and Urban Studies (IJEEFUS) |
| 10 | Climate Change Trends, Impacts<br>and Adaptation of Upland Farmers<br>in La Trinidad, Benguet, Philippines  | Gerry P. Alfonso, Kenneth A.<br>Laruan  | International Journal of<br>Agronomy and Agricultural<br>Research                       |
| 11 | Distribution and morpho-anatomical characterization of 'Beket' (Coriaria japonica subsp. intermedia (Matsum) T. C. Huanh) in Cordillera Central Range, Northern Philippines     | Maricel A. Guron , Jones T.<br>Napaldet   | Journal of Mountain Science   |
| 12 | Estimation of Basic Wood Density<br>and its Uncertainty for Quercus<br>Species in South Korea   | Jung Kee Pyo, Roscinto Ian<br>Lumbres, Yeong Mo Son,<br>Kyeong Hak Lee, Young Jin<br>Lee  | Journal of Environmental<br>Science and Management                                      |
| 13 | Crown Fuel Characteristics and<br>Allometric Equations of Pinus<br>densiflora in Gyeongbuk Province,<br>Korea   | Sung Yong Kim, Roscinto lan<br>Lumbres, Yeon Ok Seo, Mina<br>Jang, Sun Joo Lee, Byungdoo<br>Lee, Young Jin Lee  | Journal of Environmental<br>Science and Management                                      |
| 14 | Growth Improvement of 'Grand<br>Rapids' Lettuce using Protected<br>Cultivation under Chilling Conditions<br>in Benguet, Philippines   | Darwin A. Basquial,<br>Constancio C. De Guzman  | The Thailand Natural History<br>Museum Journal 14(1) 73-83                              |

|    | Title of Article   | Author(s)   | Name of Journal / Book  |
|----|--|---|---|
| 15 | Geomorphometric Characterization<br>and Analysis of the Bued Watershed<br>Using Advanced Spaceborne<br>Thermal Emission and Reflection<br>Radiometer - Global Digital<br>Elevation Model V3 through<br>Geospatial Techniques | Bernard Peter O. Daipan   | Philippine Journal of Science<br>149 (3-a): 955-967,ISSN<br>0031-7683   |
| 16 | Lead and Mercury Uptake in<br>Dominant Macrophytes of Balili<br>River, Benguet, Philippines  | Jones T. Napaldet, Inocencio<br>Buot, Jr.   | Journal of Wetlands<br>Biodiversity   |
| 17 | Vascular Plant Diversity in Benguet<br>State University La Trinidad, Main<br>campus, Philippines: A Status<br>Report and a Database To Support<br>The Attainment of Sustainable<br>Development                               | Jhunedyn M. Antonio,<br>Margarette M. Bacate,<br>Jackson L. Butag, Sheinalene<br>M. Ladoan, Gina D. Vicente,<br>Jones T. Napaldet | Journal of Wetlands<br>Biodiversity   |
| 18 | Predicting success in teacher<br>education: Revisiting the influence of<br>high school GPA, admission, and<br>standardized test scores on<br>academic and licensure<br>performance   | Apler J. Bansiong, Janet Lynn<br>M. Balagtey  | Journal of Research, Policy & Practice of Teacher and Teacher Education   |
| 19 | Rehabilitation of Eutrophic Rivers<br>Through Phytoremediation in<br>Constructed Wetland: The Case of<br>Balili River in Benguet, Philippines  | Jones T. Napaldet, Inocencio<br>Buot, Jr.   | Methodologies Supportive of<br>Sustainable Development in<br>Agriculture and Natural<br>Resources Management:<br>Selected Cases in Southeast<br>Asia (Chapter 12: pp.203-230) |
| 20 | Spatial and Productivity Measurements in Traditional Rice- based Ecosystems in Highland Cordillera (Chapter 2) SEARCA, College Laguna  | Romeo A. Gomez Jr.  | Methodologies Supportive of<br>Sustainable Development in<br>Agriculture and Natural<br>Resources<br>Management:Selected Cases<br>in Southeast Asia (Chapter 2<br>pp 11-22)   |
| 21 | Adoption of Root crop- and Fruit–<br>Based Processing Technologies   | Esther T. Botangen, Hilda L.<br>Quindara, Joyce K. Mama-o   | Mountain Journal Science<br>Interdisciplinary Research<br>(MJSIR)   |
| 22 | Status of Introduced Potato Varieties in Benguet and Mountain Province, Philippines  | Cynthia G. Kiswa, Gabby K.<br>Dao-ines, Betty T. Gayao  | Mountain Journal Science<br>Interdisciplinary Research<br>(MJSIR)   |
| 23 | Gender Roles in Root and Tuber<br>Crops Production in Northern<br>Philippines  | Dalen T. Meldoz, Betty T.<br>Gayao, Grace S. Backian  | Mountain Journal Science<br>Interdisciplinary Research<br>(MJSIR)   |

|    | Title of Article   | Author(s)   | Name of Journal / Book  |
|----|--|---|---|
| 24 | Informal Seed System on Greater<br>Yam (Dioscorea Alata): Knowledge<br>and Practices among Indigenous<br>People in Northern Philippines                  | Grace S. Backian, Betty T.<br>Gayao, Dalen T. Meldoz  | Mountain Journal Science<br>Interdisciplinary Research<br>(MJSIR) |
| 25 | Need-Based and Participatory Approach to Extension: Case of Addressing Sweetpotato Fusarium Wilt in Kayapa, Nueva Vizcaya                                | Grace S. Backian, Dalen T.<br>Meldoz, Teresita D.<br>Masangcay Cynthia G. Kiswa                                   | Mountain Journal Science<br>Interdisciplinary Research<br>(MJSIR) |
| 26 | Teachers' Preparedness for Inclusive Education   | Leonila R. Sito   | Mountain Journal Science<br>Interdisciplinary Research<br>(MJSIR) |
| 27 | Information and Communication Technology (ICT) Through PowerPoint Presentation: A Tool in Enhancing Teaching-Learning Process                            | Bretel B. Dolipas, Freda Kate<br>D. Samuel, Kenneth B.<br>Pakipac   | Mountain Journal Science<br>Interdisciplinary Research<br>(MJSIR) |
| 28 | Knowledge Construction Schemata<br>of Teachers in Solving Real World<br>Non-Routine Problem Situation:<br>Their Implications to Mathematics<br>Education | Serano L. Oryan   | Mountain Journal Science<br>Interdisciplinary Research<br>(MJSIR) |
| 29 | Readiness of Preservice Teachers in the 21st Century Teaching Environment  | Imelda G. Parcasio  | Mountain Journal Science<br>Interdisciplinary Research<br>(MJSIR) |
| 30 | Teaching Practices for Children with<br>Autism (CWA) at Baguio SPED<br>Center  | Dante M. Miguel   | Mountain Journal Science<br>Interdisciplinary Research<br>(MJSIR) |
| 31 | Performance of Orange-Fleshed<br>Sweetpotato Varieties in Three<br>Agroecological Conditions in<br>Cordillera Administrative Region,<br>Philippines      | Hilda Quindara, Isidro Awal,<br>Roger Gayumba, Belinda Tad-<br>awan   | Mountain Journal Science<br>Interdisciplinary Research<br>(MJSIR) |
| 32 | Motivation toward teaching and<br>employment profile of the Bachelor<br>of Secondary Education Graduates<br>of Benguet State University                  | Apler Bansiong, Jingle<br>Cuevas, Dolores Alawas  | Mountain Journal Science<br>Interdisciplinary Research<br>(MJSIR) |
| 33 | Benguet State University High<br>School Students' Curiosity, Interest,<br>and Perceptions on Interactive<br>Manipulatives in Mathematics                 | Joel V. Lubrica, Serano L.<br>Oryan, Monica S. Alimondo,<br>Julie A. Buasen Bretel B.<br>Dolipas, Phil S. Ocampo. | Mountain Journal Science<br>Interdisciplinary Research<br>(MJSIR) |

|    | Title of Article  | Author(s)  | Name of Journal / Book  |
|----|---|--|---|
| 34 | Growing Arabica Coffee in the<br>Mountain: Evolving Production and<br>Marketing Practices in Benguet and<br>Mountain Province                           | Ruth S. Batani, Beverly C. Sa-<br>ao, Kristerlyne S. Manao, Mary<br>An J. Altaki Joel C. Faroden,<br>Gretchen Shagami M.<br>Hudson, Darlyn D. Tagarino | Mountain Journal Science<br>Interdisciplinary Research<br>(MJSIR) |
| 35 | Competency Appraisal as A Tool in Improving the Board Exam Performance of Benguet State University Bachelor of Science in Forestry Graduates            | Marissa R. Parao, Elvira<br>Besiic, Bernard Peter Daipan,<br>Nover Matso, Marycel Sajise   | Mountain Journal Science<br>Interdisciplinary Research<br>(MJSIR) |
| 36 | Effects of the Different Postharvest Processing Methods on the Occurrence of Ochratoxin A and Cupping Quality of Arabica Coffee                         | Andres A. Basalong, Von A.<br>Amado, Margelyn Pasigon,<br>Hazen Lyn Talbini  | Mountain Journal Science<br>Interdisciplinary Research<br>(MJSIR) |
| 37 | Germplasm Collection and Varietal<br>Evaluation of Heirloom Rice in<br>Benguet  | Belinda A. Tad-awan, Hector<br>Gayomba, Teresita<br>Masangcay, Jasmin<br>Chomawat, Wilner Mauting  | Mountain Journal Science<br>Interdisciplinary Research<br>(MJSIR) |
| 38 | Utilization of Orange-fleshed<br>Sweetpotatoes to Enhance the B-<br>Carotene Content of Locally<br>Consumed Food Products                               | Hilda Quindara, Ines<br>Gonzales, Esther T. Botangen,<br>Belinda A. Tad-awan   | Mountain Journal Science<br>Interdisciplinary Research<br>(MJSIR) |
| 39 | Efficacy of Fermented Garlic and<br>Vinegar-Based Biopesticide for<br>Fusarium (Fusarium oxysporum f.<br>sp. batatas) Wilt Management in<br>Sweetpotato | Teresita D. Masangcay, Jophr.<br>L. Galian   | Mountain Journal Science<br>Interdisciplinary Research<br>(MJSIR) |
| 40 | Traditional Food Preparation Practices for Roots and Tubers among Indigenous Peoples in Northern Philippines  | Dalen Meldoz et al.  | Mountain Journal Science<br>Interdisciplinary Research<br>(MJSIR) |
| 41 | The News Shapes Our Views:<br>Media Exposure and Attitudes<br>Towards Drug Addicts  | Karyll Ngina, Francis Simonh<br>Bries, Joan Bonsol Marasigan   | Mountain Journal Science<br>Interdisciplinary Research<br>(MJSIR) |
| 42 | The Integration of Indigenous<br>Knowledge Systems (IKS) in The<br>Tertiary Level Curriculum of Benguet<br>State University La Trinidad Campus          | Gigy Guma-ad Banes, Kristine<br>Baniqued-Dela Cruz   | Mountain Journal Science<br>Interdisciplinary Research<br>(MJSIR) |
| 43 | Perceptions and Political<br>Participation of BSU Students  | Ma. Theresa Dolipas  | Mountain Journal Science<br>Interdisciplinary Research<br>(MJSIR) |

#### C. RESEARCH PAPER PRESENTATION

A total of 109 research papers were presented by BSU researchers in international, national, regional and local/institutional conferences.

Table 3. Paper Presentation

| Paper Presentation in the ff. fora: | No. of Papers Presented |
|-------------------------------------|-------------------------|
| International                       | 4                       |
| National                            | 1                       |
| Regional                            | 10                      |
| Local / Institutional (AIHR)        | 94                      |
| Total                               | 109                     |

The R & E sector conducted the Annual Agency In-House Review on September 16-18, 2020, at the Research and Extension Building. A total of 94 research papers were presented with 46 completed and 48 ongoing. The distribution per theme is as follows:

Table 4. BSU Agency In-House Review

**COMPLETED** 

| Theme                        | Outside Funded | BSU Funded | Total |
|------------------------------|----------------|------------|-------|
| S&T AANR                     | 4              | 9          | 13    |
| S&T FIEET                    | 1              | 4          | 5     |
| Social AANR                  | 4              | 1          | 5     |
| Sociocultural/Socioeconomics |                | 11         | 11    |
| Development/Extension        | 2              |            | 2     |
| Education                    |                | 10         | 10    |
| Total                        | 11             | 35         | 46    |

### **ONGOING**

| Theme                        | Outside Funded | BSU Funded | Total |
|------------------------------|----------------|------------|-------|
| S&T AANR                     | 13             | 23         | 36    |
| S&T FIEET                    | 1              | 1          | 2     |
| Social AANR                  | 1              |            | 1     |
| Sociocultural/Socioeconomics | 1              | 3          | 4     |
| Development/Extension        | 3              |            | 3     |
| Education                    |                | 2          | 2     |
| Total                        | 19             | 29         | 48    |

# D. AWARDS/ RECOGNITIONS

The following shows the awards and recognitions received by BSU full time and faculty researchers in various research fora/ activities.

Table 5. AIHR Awards

| Awardee/s   | Award                                 | Title of Research Paper   | Date<br>Received      | Awarding<br>Organization/<br>Conferring Body         |
|---|---------------------------------------|---|-----------------------|--|
| Leoncia L. Tandang  | 2020 CSSP<br>Honorary Fellow<br>Award |   | November 11,<br>2020  | Crop Science Society<br>of the Philippines<br>(CSSP) |
| Outside Funded / S&T A  | ANR Category                          |   |                       |  |
| Sherlyn C. Tipayno Criselda S. Battad Amelia M. Kimeu Norbert Q. Angalan Jayson D. Komicho Alfonso O. Fagcayang Khyle W. Paltican | Best Paper                            | Project Title: Monitoring Microbes and Parasites of Public Health Importance in Lettuce and Strawberry Produced in Benguet Province Study 1: Farming Practices and Bio-physicochemical Assessment and Strawberry in Benguet Province  | September 18,<br>2020 | BSU  |
| BSU Funded / S & T AAN  |                                       |   |                       | T  |
| Nordalyn Pedroche<br>Soccorro L. Rulloda  | 1 <sup>st</sup> Best Paper            | Project Title: Potential of Entomopathogenic Nematodes and Microbial Antagonist Against Soil-borne Pathogens and Insects in Coffee Study 3. Evaluation of Entomopathogenic Nematodes (EPNs) against Major Insect Pests  | September 18, 2020    | BSU  |
| Sherlyn C. Tipayno<br>Christian Mark Guyo   | 2 <sup>nd</sup> Best Paper            | Project Title: Bacterial Endophyte-Assisted Bioremediation of Pesticide Residues in Lettuce (Lactuca sativa) and Spinach (Spinaca oleracea) Crops Study 1: Isolation and Characterization of Pesticide Degrading Endophytes from Plants Growing in Persistent Organic Pollutant (POP) Pesticide-contaminated Agricultural Lands | September 18,<br>2020 | BSU  |
| Outside Funded / S&T FI   | EET Category                          |   |                       |  |
| Valentino L. Macanes  | Best Paper                            | Program Title: R and D<br>Program on Arabica Coffee in  | September 18, 2020    | BSU  |

| Awardee/s  | Award                      | Title of Research Paper   | Date<br>Received      | Awarding<br>Organization/<br>Conferring Body |
|--|----------------------------|---|-----------------------|--|
| Lesley Dale G. Umayat Elmer D.Pakipak Cole Jeran Malucay Jomar T. Tacio Mirafy G. Balang |                            | the Cordillera Administrative Region (CAR) Project Title: Evaluation and Development of Best Practices for Rejuvenation, Postharvest Processing and Storage for Quality Coffee Production in Benguet and Mountain Province Study Title: Arabica Wine Technology Development from Postharvest Processing By-Products |                       | Comerning Body                               |
| BSU Funded / S&T FIEE  | l<br>Γ Category            | Dy-Floudcis   |                       |  |
| Andres A. Basalong<br>Von Y. Amado<br>Hazen Lynn B. Talbino                              | Best paper                 | Project Title: Impact of Post-<br>Harvest Processing Methods<br>on the Occurrence of<br>Ochratoxin A and Cupping<br>Quality of Arabica Coffee<br>Study Title: Impact of Roast<br>Levels on the Physical<br>Properties, Microbial<br>Contaminants and Cup<br>Quality of Arabica Coffee                               | September 18,<br>2020 | BSU  |
| Outside Funded / SOCIA   |                            | I D   | To                    | I nou  |
| Grace S. Backian Betty T. Gayao Jophr L. Galian Ammie D. Ngao-toy                        | 1 <sup>st</sup> Best Paper | Project Title: Root Crop Pests and Diseases Currently Affecting Livelihood and Income of Indigenous Growers in Benguet and Nueva Vizcaya  Study 2. Taro Leaf Blight (Phytophthora colocasia), Taro Beetle and other Taro Insect Pests and Diseases affecting Farms of Indigenous Growers in Benguet and             | September 18, 2020    | BSU  |
| Grace S. Backian, Betty<br>T. Gayao, Jophr L.<br>Galian, Ammie D. Ngao-<br>toy           | 2 <sup>nd</sup> Best Paper | Nueva Viscaya, Philippines Project Title: Root Crop Pests and Diseases Currently Affecting Livelihood and Income of Indigenous Growers in Benguet and Nueva VizcayaStudy 3. Yam Anthracnose(Colletotrichum gloeosporioides) in Benguet  | September 18,<br>2020 | BSU  |

| Awardee/s  | Award                      | Title of Research Paper  | Date<br>Received                        | Awarding<br>Organization/<br>Conferring Body |
|--|----------------------------|--|---|--|
|  |                            | and Nueva Vizcaya,<br>Philippines  |   | ,  |
| Grace S. Backian Betty T. Gayao Jophr L. Galian Ammie D. Ngao-toy        | 3 <sup>rd</sup> Best Paper | Project Title: Root Crop Pests and Diseases Currently Affecting Livelihood and Income of Indigenous Growers in Benguet and Nueva Vizcaya Study 1. Sweet Potato Fusarium Wilt (Fusarium oxysporum f sp. batatas) and other Insect Pests and Diseases Affecting Farms of Indigenous Growers in Benguet and Nueva Viscaya         | September 18, 2020                      | BSU  |
| BSU Funded / Socioculti  | ural / Socioeconomic       |  |   |  |
| Karryl Mae C. Ngina<br>Editha A. Grande<br>Liza Ngiao<br>Joel V. Lubrica | 1 <sup>st</sup> Best Paper | Program Title: #iGenHopeful: Exploring iGeneration Wellbeing and Development towards Responsive iGen programs Project Title 2: #iGenHopeful: Exploring iGeneration Mental Health Study Title: #iSADgen: Psychological Morbidities of the iGeneration Higher Education Students towards Policy Development                      | September 18, 2020                      | BSU  |
| Karryl Mae C. Ngina  | 2 <sup>nd</sup> Best Paper | Program Title: #iGenHopeful: Exploring iGeneration Wellbeing and Development towards Responsive iGen programs Project 2 Title: #iGenHopeful: Exploring iGeneration Mental Health Study 2 Title: #iGenNarratives: A Life Narrative Approach in Exploring Mental Health Issues of the iGeneration Towards a Therapeutic Pedagogy | September 18, 2020                      | BSU  |
| Outside Funded / Develo  |                            |  | I 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | I BOLL                                       |
| Ruth S. Batani<br>Carlito P. Laurean                                     | Best Paper                 | Program Title: Disaster Risk Reduction of Climate Change   | September 18,<br>2020                   | BSU  |

| Awardee/s                            | Award                                   | Title of Research Paper  | Date<br>Received   | Awarding<br>Organization/<br>Conferring Body |
|--------------------------------------|---|--|--------------------|--|
| Teresita K. Mangili                  |   | Impacts on Vulnerable  |                    |  |
| Jocelyn C. Perez                     |   | Agricultural Farms in CAR                                      |                    |  |
| Alexander W. Fagyan                  |   | Project Title: Disaster Risk                                   |                    |  |
| Cus M. Kilakil                       |   | Reduction of Climate Impacts                                   |                    |  |
| Laudemar L. Luis                     |   | on Vulnerable Terrace Farms                                    |                    |  |
| Craig P. Lucas                       |   | in Benguet   |                    |  |
| Sheler D. Ramos                      |   |  |                    |  |
| BSU Funded / Education               | Category                                |  | I                  |  |
| Jhordan T. Cuilan                    | 1st Best Paper                          | Master of Arts in English as a                                 | September 18,      | BSU  |
| Cynthia T. Lubiton                   |   | Second Language Graduates'                                     | 2020               |  |
| Candace Grale B. Macli-              |   | Employment Profile and   |                    |  |
| ing                                  |   | Program Relevance: Bases                                       |                    |  |
|                                      |   | for Quality Measures towards                                   |                    |  |
|                                      |   | Curriculum Review and  |                    |  |
|                                      |   | Enhancement  |                    |  |
|                                      |   |  |                    |  |
| Leonila R. Sito                      | 2 <sup>nd</sup> Best Paper              | Assessment Practices in  | September 18,      | BSU  |
|                                      |   | Higher Education Institutions in the Cordillera Administrative | 2020               |  |
|                                      |   | Region   |                    |  |
|                                      | Outstanding                             | "Education, Propagation and                                    |                    |  |
|                                      | Alumni on Social                        | Conservation of Traditional                                    |                    |  |
|                                      | Research &                              | Food Crops as Embodiment of                                    |                    |  |
| Ruth S. Batani                       | Extension (104 <sup>th</sup> Foundation | Indigenous Knowledge in Palina, Kibungan: An                   | September 23,      | BSU  |
| Nutil S. Datalli                     | Anniversary                             | Extension" (ATI-DA)  | 2020               | B30  |
|                                      | PRAISE                                  | Zatoricion (1111 Brt)  |                    |  |
|                                      | Everlasting                             |  |                    |  |
|                                      | Awards 2020)                            |  |                    |  |
|                                      | 3 <sup>rd</sup> Best Poster             | "Awareness of Consumers on                                     |                    |  |
|                                      | (104th Foundation                       | the First, Second, and Third                                   | Contombor 22       |  |
| Jovita M. Sim                        | Anniversary PRAISE                      | Degree Certification of Organic Products" (Social-             | September 23, 2020 | BSU  |
|                                      | Everlasting                             | ANNR category)   | 2020               |  |
|                                      | Awards 2020)                            | 3 37   |                    |  |
|                                      | 2 <sup>nd</sup> Best Paper              | "Assessment Field, Validation                                  |                    |  |
| Ruth S. Batani                       | (104th Foundation                       | and Documentation of   |                    |  |
| Ruth S. Batani<br>Romeo A. Gomez Jr. | Ànniversary                             | Evidence-based Ecosystem Adaptation Measures with              | September 23,      | BSU  |
| Cheryll C. Launio                    | PRAISE                                  | Potential for Scaling-up in                                    | 2020               | ВЗО  |
| 5.15.j 5. Eduillo                    | Everlasting                             | Indigenous Cultural  |                    |  |
|                                      | Awards 2020)                            | Communities"   |                    |  |
| Matyline A. Camfili-                 | 1st Best Paper                          | "Learning Day-eng and  | September 23,      |  |
| Talastas                             | (104th Foundation                       | Liwliwa as told by Ypidlisan"                                  | 2020               | BSU  |
|                                      | Anniversary                             |  | *=*                |  |

| Awardee/s   | Award   | Title of Research Paper  | Date<br>Received      | Awarding<br>Organization/<br>Conferring Body |
|---|---|--|-----------------------|--|
|   | PRAISE<br>Everlasting<br>Awards 2020)   | (Social Sciences Category:<br>Oral Presentation)   |                       |  |
| Stanley F. Anongos  | 3 <sup>rd</sup> Best Paper<br>(104th Foundation<br>Anniversary<br>PRAISE<br>Everlasting<br>Awards 2020)                                   | "Accommodation of<br>Indigenous Dances in Higher<br>Education Institutions in CAR"<br>(Social Science Category:<br>Oral Presentation)                                | September 23, 2020    | BSU  |
| Andres A. Basalong<br>Hazen Lyn B. Talbino<br>Von Y. Amado  | 2nd Best Paper<br>Research<br>Category: Oral<br>Presentation<br>(104th Foundation<br>Anniversary<br>PRAISE<br>Everlasting<br>Awards 2020) | "Impact of the Different<br>Postharvest Processing<br>Methods on the Occurrence<br>of Ochratoxin A and<br>Cupping Quality of Arabica<br>Coffee"                      | September 23, 2020    | BSU  |
| Grace Backian, Ammie<br>Ngaotoy, Grace<br>Backian, Jophr Galian   | 1st Best Poster<br>Social AANR<br>Category (104th<br>Foundation<br>Anniversary<br>PRAISE<br>Everlasting<br>Awards 2020)                   | Survey of the Prevalence<br>and Effect of Taro Leaf<br>Blight and Taro Beetle on<br>Livelihood and Security<br>Indigenous Growers in<br>Benguet and Nueva<br>Vizcaya | September 23,<br>2020 | BSU  |
| Carlito P. Laurean<br>(Project Leader)<br>Jocelyn C. Perez (Study<br>Leader)<br>Jaime B. Codio (Project<br>Staff) | 1 <sup>st</sup> Best Paper,<br>Development<br>Category  | Science and Technology Community Based Farm (STCBF) on Spray-Type Chrysanthemum Production: A Model in Accelerating Agricultural Development in Benguet              | September 23,<br>2020 | BSU  |
| Karryll Mae C. Ngina,<br>Ma. Theresa Dolipas,<br>Grace Sabado   | 2 <sup>nd</sup> Best Poster<br>(Regional<br>Symposium,<br>Education<br>Category)  | Project 3: #iGen Hopeful: Exploring iGeneration Student Development Study 2: #iGenEngagement: Exploring iGen Global Citizenship an Civic Engagement in Higher        | December 10,<br>2020  | CorCAARRD                                    |
| Karyll Mae C. Ngina   | 1st Best Paper<br>(Regional<br>Symposium,<br>Social Science<br>Category)  | Program Title: #iGenHopeful:<br>Exploring iGeneration<br>Wellbeing and Development<br>towards Responsive iGen<br>programs  | December 10,<br>2020  | CorCAARRD                                    |

| Awardee/s   | Award  | Title of Research Paper  | Date<br>Received     | Awarding<br>Organization/<br>Conferring Body |
|---|--|--|----------------------|--|
|   |  | Study Title #iGenNarratives: A Life Narrative Approach in Exploring Mental Health Issues of iGeneration Towards a Therapeutic Pedagogy   |                      | Jones III                                    |
| Karryl Mae C. Ngina,<br>Editha A. Grande , Liza<br>Ngiao, and Joel V.<br>Lubrica                                    | 2 <sup>nd</sup> Best Paper<br>(Regional<br>Symposium,<br>Social Science<br>Category) | Program Title: #iGenHopeful: Exploring iGeneration Wellbeing and Development towards Responsive iGen Programs Study Title: #iSADgen: Psychological Morbidities of the iGeneration Higher Education Students towards Policy Development | December 10, 2020    | CorCAARRD                                    |
| hordan T. Cuilan;<br>Cynthia T. Lubiton;<br>Candace Grale B. Macli-<br>ing  | 1st Best Paper<br>(Regional<br>Symposium,<br>Education<br>Category)                  | Master of Arts as a Second Language Graduates' Employment Profile and Program Relevance: Bases for Quality Measure Towards Curriculum Review and Enhancement   | December 10, 2020    | CorCAARRD                                    |
| Janet M. Balagtey;<br>Imelda G. Parcasio;<br>Donna Claire L.<br>Colinang; Laureen B.<br>Likigan                     | 1st Best Poster<br>(Regional<br>Symposium,<br>Education<br>Category)                 | Development of Digital<br>Literacy Test  | December 10, 2020    | CorCAARRD                                    |
| Andres A. Basalong<br>Von Y. Amado<br>Hazen Lyn B. Talbino  | 1 <sup>St</sup> Best Poster<br>(IEET Category)                                       | Effect of Drying Methods and<br>Load Level on Ochratoxin A<br>Contamination and Cup<br>Quality of Arabica Coffee<br>(Poster Presentation)  | December 10, 2020    | CorCAARRD                                    |
| Nordalyn B. Pedroche<br>(Project leader)<br>Socorro L. Rulloda<br>(Project Staff)                                   | 1 <sup>st</sup> Place,<br>Research Paper<br>for Research<br>Category                 | Potential of Entomopathogenic Nematodes as Biological Control Agents Against Soil- Borne Pathogens and Insects in Coffee   | December 10, 2020    | CorCAARRD                                    |
| Sherlyn C. Tipayno<br>(Project Leader)<br>Amelia M. Kimeu (study<br>leader)<br>Criselda S. BAttad<br>(study leader) | 3 <sup>rd</sup> Place Best<br>Paper for<br>Research<br>Category                      | Farming Practices and Biophysical Assessment of Organic Farms Producing Lettuce and Strawberry in Benguet Province   | December 10, 2020    | CorCAARRD                                    |
| Valentino L. Macanes,<br>Lesley Dale G. Umayat,<br>Elmer D.Pakipak, Cole  | 3 <sup>rd</sup> Place Best<br>Paper Award<br>(Outside Funded:                        | Arabica Wine Technology<br>Development from  | December 10,<br>2020 | CorCAARRD and<br>CIEERDEC                    |

| Awardee/s   | Award   | Title of Research Paper   | Date<br>Received     | Awarding<br>Organization/<br>Conferring Body |
|---|---|---|----------------------|--|
| Jeran Malucay, Jomar<br>T. Tacio, Mirafy G.   | Science and technology FIEET  | Postharvest Processing By-<br>Products  |                      |  |
| Balang  | Category  | Troddoto  |                      |  |
| Sherlyn C. Tipayno,<br>Criselda S. Battad,<br>Amelia M. Kimeu,<br>Norbert Q. Angalan,<br>Jayson D. Komicho,<br>Alfonso O. Fagcayang,<br>Khyle W. Paltican | 3rd Best Paper<br>Award (Outside<br>Funded: Science<br>and Technology<br>AANR Category) | Farming practices and bio-<br>physicochemical assessment<br>of soil and irrigation water of<br>organic farms producing<br>lettuce and strawberry in<br>Benguet province | December 10,<br>2020 | CorCAARRD and CIEERDEC                       |

### **E. UTILITY MODEL APPLICATIONS**

The BSU Intellectual Property Rights Office (IPRO) submitted 32 research outputs/technologies for Utility Model application to the Bureau of Patents, Intellectual Property Office Philippines. Meanwhile 27 outputs which were filed from 2017 to 2019 were published by IPO Phil this 2020.

Table 6. List of Utility Model Applications

| Title of Technology                                   | Researchers   | Date Filed for<br>Patenting/UM | Application<br>Number | Remarks |
|---|---|--------------------------------|-----------------------|---------|
| A process of making vanilla flavored potato ice cream | Dominga E. Gabriel  | February 12, 2020              | 2202000072            | Filed   |
| A process of making potato ice cream                  | Dominga E. Gabriel  | February 12, 2020              | 2202000069            | Filed   |
| A process of making spicy chinese cabbage sauce       | Dominga E. Gabriel  | February 12, 2020              | 2202000067            | Filed   |
| A process of making potato ice cream with chocolate   | Dominga E. Gabriel  | February 12, 2020              | 2202000070            | Filed   |
| A process for making chickpea in brine solution       | Ines C. Gonzales, Hilda L. Quindara, Pelin B. Belino, Fernando R. Gonzales, Esther T. Botangen, Joyce K. Mama-o | February 12, 2020              | 2202000066            | Filed   |
| A process for making binatog using chickpea           | Ines C. Gonzales, Hilda L. Quindara, Pelin B. Belino, Fernando R. Gonzales, Esther T. Botangen, Joyce K. Mama-o | February 12, 2020              | 2202000071            | Filed   |

| Title of Technology   | Researchers   | Date Filed for<br>Patenting/UM | Application<br>Number | Remarks |
|---|---|--------------------------------|-----------------------|---------|
| A process of making cake enriched with chickpea and sweetpotato                                 | Ines C. Gonzales,<br>Hilda L. Quindara,<br>Pelin B. Belino,<br>Fernando R.<br>Gonzales, Esther T.<br>Botangen, Joyce K.<br>Mama-o                         | February 12, 2020              | 2202000076            | Filed   |
| A process of making salad enriched with chickpea and vegetables                                 | Ines C. Gonzales, Hilda L. Quindara, Pelin B. Belino, Fernando R. Gonzales, Esther T. Botangen, Joyce K. Mama-o   | February 12, 2020              | 2202000075            | Filed   |
| A process of making chickpeasweet potato filling  | Ines C. Gonzales, Hilda L. Quindara, Pelin B. Belino, Fernando R. Gonzales, Esther T. Botangen, Joyce K. Mama-o   | February 12, 2020              | 2202000074            | Filed   |
| A process for making pineapple-<br>chayote jam  | Jao-jao A. Somyden,<br>Melchor S. Lumiked,<br>Dalifer A. Gano   | February 12, 2020              | 22020000129           | Filed   |
| A composition for making pineapple-chayote jam  | Jao-jao A. Somyden,<br>Melchor S. Lumiked,<br>Dalifer A. Gano   | February 12, 2020              | 22020000130           | Filed   |
| A composition of minerals for formulating feeds for philippine native pigs(black tiaong strain) | Mary Arnel D. Garcia  | December 6, 2020               |                       | Filed   |
| Agricultural windbreak structure system   | Ruth S. Batani Carlito P. Laurean Teresita K. Mangili Jocelyn C. Perez Alexander W. Fagyan Cus M. Kilakil Laudemar L. Luis Craig P. Lucas Sheler D. Ramos | December 7, 2020               |                       | Filed   |
| A process for making<br>turmeric(curcuma longa) powder<br>for tea and spice                     | Esther T. Botangen,<br>Joyce K. Mama-o  | December 7, 2020               |                       | Filed   |
| A process for making sun-dried pork   | Cynthia D. Garambas   | December 7, 2020               |                       | Filed   |
| Pork smoking material   | Cynthia D. Garambas   | December 7, 2020               |                       | Filed   |

| Title of Technology  | Researchers  | Date Filed for<br>Patenting/UM | Application<br>Number | Remarks |
|--|--|--------------------------------|-----------------------|---------|
| A device for releasing attractant for coffee berry borer(hypothenemus hampei ferarri)        | Gemma S. Das-ilen,<br>Bonie S. Ligat Sr., Fe<br>S. Copero<br>Kevin Joe P. Eladjo                           | December 7, 2020               |                       | Filed   |
| A composition of lemongrass herbal tea flavored with freeze-dried fruits                     | Kathlyn P. Aragon,<br>Jao-jao A. Somyden   | December 7, 2020               |                       | Filed   |
| A process for making lemongrass herbal tea flavored with freeze-dried fruits                 | Kathlyn P. Aragon,<br>Jao-jao A. Somyden   | December 7, 2020               |                       | Filed   |
| A composition of ube polvoron  | Esther T. Botangen,<br>Joyce K. Mama-o   | December 7, 2020               |                       | Filed   |
| A process for making purple yam polvoron   | Esther T. Botangen,<br>Joyce K. Mama-o   | December 7, 2020               |                       | Filed   |
| A composition of freeze-dried red-<br>fleshed dragon fruit                                   | Jao-jao A. Somyden,<br>Rhea S. Contada,<br>Pelin B. Belino,<br>Johnabel T. Basatan,<br>Ruda Fe A. Suanding | December 7, 2020               |                       | Filed   |
| A process for freeze-dried red-<br>fleshed dragon fruit                                      | Jao-jao A. Somyden,<br>Rhea S. Contada,<br>Pelin B. Belino,<br>Johnabel T. Basatan,<br>Ruda Fe A. Suanding | December 7, 2020               |                       | Filed   |
| A process for baking cake enriched with sugar beet (beta vulgaris)                           | Melchor S. Lumiked   | December 7, 2020               |                       | Filed   |
| A composition of baking cake enriched with zucchini (cucurbita pepo)                         | Melchor S. Lumiked   | December 7, 2020               |                       | Filed   |
| A composition of baking cake enriched with sugar beet (beta vulgaris)                        | Melchor S. Lumiked   | December 7, 2020               |                       | Filed   |
| A process for baking cake enriched with zucchini (cucurbita pepo)                            | Melchor S. Lumiked   | December 7, 2020               |                       | Filed   |
| A process of administering chlorogenic acid (cga) suspension for control of coffee leaf rust | Bernard A. Tad-awan  | December 7, 2020               |                       | Filed   |
| A process for making dried arabica coffee pulp wine  | Lesley Dale G.<br>Umayat, Valentino L.<br>Macanes, Mirafy G.<br>Balang                                     | December 7, 2020               |                       | Filed   |

| Title of Technology  | Researchers   | Date Filed for<br>Patenting/UM | Application<br>Number | Remarks   |
|--|---|--------------------------------|-----------------------|-----------|
| A composition of dried arabica coffee pulp wine                        | Lesley Dale G.<br>Umayat, Valentino L.<br>Macanes, Mirafy G.<br>Balang  | December 7, 2020               |                       | Filed     |
| A composition of preparing buns enriched with vegetable and root crops | Violeta B. Salda,<br>Jofrey J. Bayating,<br>Manuel M. Dorado Jr.  | December 7, 2020               |                       | Filed     |
| A process for making buns enriched with vegetable and root crops       | Violeta B. Salda,<br>Jofrey J. Bayating,<br>Manuel M. Dorado Jr.  | December 7, 2020               |                       | Filed     |
| A process of making polvoron enriched with chickpea                    | Ines C. Gonzales,<br>Hilda L. Quindara,<br>Pelin B. Belino,<br>Fernando R.<br>Gonzales, Esther T.<br>Botangen, Joyce K.<br>Mama-o | February 12, 2020              | 2202000077            | Published |
| Portable coconut dehusking machine with detachable blade assembly      | Istvan Joe Quiamco,<br>Regine<br>Ducusin, John<br>Malamug   | 06-06-2018                     | 1-2018-050200         | Published |
| Composition of potato ice cream with chocolate                         | Dominga E. Gabriel  | 20-09-2018                     | 2-2018-050405         | Published |
| Composition of spicy chinese cabbage sauce                             | Dominga E. Gabriel  | 20-09-2018                     | 2-2018-050401         | Published |
| Sweet potato-puto  | Hilda L. Quindara   | 25-06-2018                     | 2-2018-000600         | Published |
| Multi-purpose digging tool   | Benjamin Piaga  | 21-05-2018                     | 2-2018-000433         | Published |
| Radiator holder and preparing stand                                    | Benjamin Piaga  | 21-05-2018                     | 2-2018-000430         | Published |
| Portable oil refilling device for differential and transmission        | Benjamin Piaga  | 21-05-2018                     | 2-2018-000434         | Published |
| Portable and multi-purpose loading flat forms                          | Benjamin Piaga  | 21-05-2018                     | 2-2018-000435         | Published |
| A composition of potato ice cream with chocolate                       | Dominga E. Gabriel  | 21-09-2018                     | 2-2018-050405         | Published |
| Composition of vanilla flavored potato ice cream                       | Dominga E. Gabriel  | 21-09-2018                     | 2-2018-050408         | Published |
| Composition of potato ice cream with buko-pandan flavor                | Dominga E. Gabriel  | 21-09-2018                     | 2-2018-050406         | Published |
| Seed propagation of yam through slip                                   | Cynthia Kiswa   | 21-09-2018                     | 2-2018-50409          | Published |

| Title of Technology                                 | Researchers  | Date Filed for<br>Patenting/UM | Application<br>Number | Remarks   |
|---|--|--------------------------------|-----------------------|-----------|
| A composition for making freeze-<br>dried guyabano  | Jao-jao A. Somyden,<br>Rhea S. Contada,<br>Pelin B. Belino,<br>Johnabel T. Basatan,<br>Ruda Fe A.<br>Suanding, Elena<br>Ganado | 25-06-2019                     | 2-2019-000760         | Published |
| A process for making freeze-dried guyabano          | Jao-jao A. Somyden,<br>Rhea S. Contada,<br>Pelin B. Belino,<br>Johnabel T. Basatan,<br>Ruda Fe A.<br>Suanding, Elena<br>Ganado | 25-06-2019                     | 2-2019-000761         | Published |
| A composition for making basil flavored ice cream   | Jao-jao A. Somyden,<br>Rhea S. Contada,<br>Pelin B. Belino,<br>Johnabel T. Basatan,<br>Ruda Fe A.<br>Suanding, Elena<br>Ganado | 17-12-2019                     | 2-2019-001617         | Published |
| Process for making basil flavored ice cream         | Jao-jao A. Somyden,<br>Rhea S. Contada,<br>Pelin B. Belino,<br>Johnabel T. Basatan,<br>Ruda Fe A.<br>Suanding, Elena<br>Ganado | 17-12-2019                     | 2-2019-001610         | Published |
| Composition of making pigeon pea flavored ice cream | Karen Aroco, Jessica<br>Binha-on, Jonalyn<br>Cabbigat,<br>Jao-jao A. Somyden   | 17-12-2019                     | 2-2019-001611         | Published |
| Process for making pigeon pea flavored ice cream    | Karen Aroco, Jessica<br>Binha-on, Jonalyn<br>Cabbigat,<br>Jao-jao A. Somyden   | 17-12-2019                     | 2-2019-001609         | Published |
| Process for making binatog using chickpea           | Ines C. Gonzales, Hilda L. Quindara, Pelin B. Belino, Fernando R. Gonzales, Esther T. Botangen, Joyce K. Mama-o                | 12-02-2020                     | 2-2020-000071         | Published |
| Composition for making hummus                       | Ines C. Gonzales,  | 20-12-2018                     | 2-2018-001621         | Published |

| Title of Technology  | Researchers   | Date Filed for<br>Patenting/UM | Application<br>Number | Remarks   |
|--|---|--------------------------------|-----------------------|-----------|
|  | Hilda L. Quindara,<br>Pelin B. Belino,<br>Fernando R.   | -                              |                       |           |
|  | Gonzales, Esther T.<br>Botangen, Joyce K.<br>Mama-o   |                                |                       |           |
| Composition for making crackers enriched with chickpea     | Ines C. Gonzales, Hilda L. Quindara, Pelin B. Belino, Fernando R. Gonzales, Esther T. Botangen, Joyce K. Mama-o | 20-12-2018                     | 2-2018-001623         | Published |
| Process for making mixed vegetable pickles                 | Lesley Dale G. Umayat   | 27-11-2017                     | 2-2017-000950         | Published |
| Method of vacuum packing of dried peanut kernels           | Hilda L. Quindara   | 10-05-2019                     | 2-2019-000573         | Published |
| Composition of fruit flavored sweetpotato candied products | Ines C. Gonzales,<br>Hilda L. Quindara,<br>Esther T. Botangen,<br>Isidro Awal                                   | 27-11-2017                     | 2-2017-000951         | Published |
| Planting device for seeds and seedlings                    | Benjamin Piaga  | 21-05-2018                     | 2-2018-000429         | Published |
| A production method of toasting shelled peanuts            | Hilda L. Quindara   | 25-06-2019                     | 2-2019-000765         | Published |

## F. PUBLICATIONS REGISTERED FOR COPYRIGHT PROTECTION

The BSU Intellectual Property Right Office was able to register a total of 111 creations/compositions in the form of instructional materials, manuals, books, journals, brochures, production guides and other creative works to the National Library of the Philippines.

## G. WRITESHOP/TRAININGS/ SEMINARS AND OUTREACH ACTIVITIES CONDUCTED/ FACILITATED

A total of 121 seminars/trainings/writeshops/information dissemination activities were conducted by the various centers, institutes, and colleges for the year 2020. More than 7,000 individuals were catered from the activities conducted.

Table 7. Writeshops/Trainings/ Seminars Conducted

| OFFICE/ CENTER/INSTITUTE/ COLLEGE   | No. Conducted<br>Trainings | No. of Trainees/<br>Beneficiaries |
|---|----------------------------|-----------------------------------|
| Office of Extension Services  | 10                         | 623                               |
| Office of Research Services   | 1                          | 250                               |
| Agri-based Technology Business Incubator/Innovation Center (ATBI/IC)                        | 17                         | 525                               |
| Cordillera Center for Animal Research and Development (CCARD)                               | 1                          | 52                                |
| Cordillera Organic Agriculture Research and Development Center (COARDC)                     | 3                          | 138                               |
| Cordillera Regional Apiculture Center (CRAC)  | 3                          | 264                               |
| Food Science Research and Innovation Center (FSRIC)   | 6                          | 322                               |
| GeoInformatics  | 3                          | 116                               |
| Higher Education Regional Research Center (HERRC)   | 5                          | 298                               |
| Horticulture Research and Training Institute (HORTI)  | 4                          | 282                               |
| IHFSA   | 6                          | 127                               |
| Institute of Social Research and Development (ISRD)   | 7                          | 831                               |
| Intellectual Property Rights Office (IPRO)  | 3                          | 299                               |
| Northern Philippines Root Crops Research and Training Center (NPRCRTC)                      | 3                          | 68                                |
| Research and Extension Publication Office (REPO)  | 4                          | 242                               |
| Cordillera Consortium on Agriculture Aquatic Resources Research and Development (CorCAARRD) | 3                          | 658                               |
| College of Agriculture  | 4                          | 98                                |
| College of Arts and Sciences  | 2                          | 76                                |
| College of Forestry   | 1                          | 84                                |
| College of Home Economics and Technology  | 9                          | 223                               |
| College of Teacher Education  | 12                         | 756                               |
| College of Nursing  | 3                          | 138                               |
| College of Veterinary Medicine  | 6                          | 193                               |
| Open University   | 1                          | 9                                 |
| Office of Student Services  | 2                          | 601                               |
| College of Engineering and Applied Technology   | 2                          | 29                                |
| TOTAL   | 121                        | 7,302                             |

### **R & E DOCUMENTATIONS**

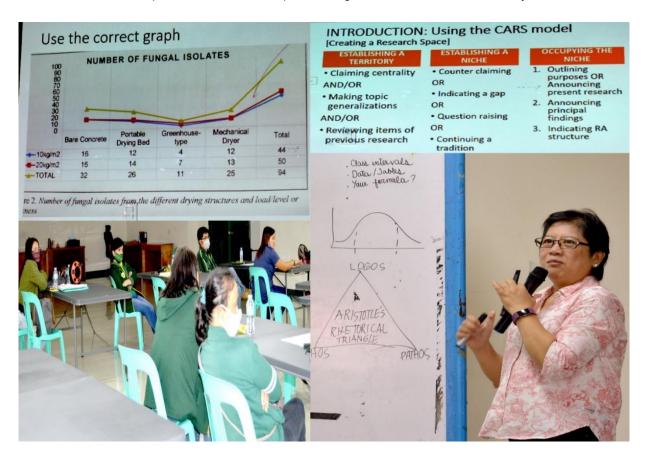
The R and E sector facilitated the conduct of the Stakeholder Consultation on Pest Risk Analysis for the Importation of Fresh Strawberry Fruits from the Republic of Korea on July 2, 2020 held at the everlasting hall of the new R & E bldg. The consultation was attended by representatives from the Local Government of La Trinidad, BSU experts, representatives from the Provincial and Regional Agriculture Offices, strawberry farmers and other stakeholders. The group discussed the advantages and disadvantages of allowing the entry of fresh strawberry fruits in the country from the Republic of Korea. As a result of the activity, a position letter was formulated by the strawberry growers group expressing their sentiments on the said importation, and the experts from BSU came up with their PRA technical evaluation and recommendation on the matter. The documents served as the basis of the Local Government of La Trinidad for an appropriate legislative action.



The Center for Geoinformatics conducted the training on the Application of Geographic Information System on Research and Extension on July 28 -30, 2020 with 35 participants and training on Climate-Risk Vulnerability Assessment (CRVA), Climate-Resilient Agri-fisheries (CRA), and Cost Benefit Analysis (CBA) for Adaptation and Mitigation Initiative in Agriculture (AMIA) in CAR on August 4-6, 2020 with 25 participants. Both activities were held at the Everlasting Hall of the R & E bldg.



♣ The Research and Extension Publication Office (REPO) conducted the Journal Research Article Writing Mentoring Workshop last August 11-12, 2020 at the Everlasting Hall, R & E bldg. Dr. Lily Ann D. Lando served as the resource speaker. She discussed tips on writing research articles for a scientific journal.



The Institute of Social Research and Development conducted a webinar on "Indigenous Knowledge and Practices in the Cordilleras" held on August 27, 2020. This is part of the celebration of the International Day of the Indigenous Peoples.



The Benguet State University-Northern Philippine Root Crops Research and Training Center (BSU - NPRCRTC) formally received on November 11, 2020, its certificate of accreditation as potato seed producer from the National Seed Quality Control Services of the Bureau of Plant Industry (BPI) after complying with the findings and recommendations of the evaluation team from BPI.



- The Cordillera Consortium on Agriculture Aquatic Resources Research and Development (CorCAARRD) is 2<sup>nd</sup> runner-up in the UGNAY Awards held virtually on December 22,2020, as part of PCAARRD's anniversary celebration. The award is granted by the Philippine Council for Agriculture, Aquatic and Natural Resources Research and Development (PCAARRD) to recognize outstanding performing Consortia nationwide. The Consortium received a trophy, plaque of recognition, and Php 800,000 cash incentive from PCAARRD.
- The Benguet State University Northern Philippine Root Crops Research and Training Center (BSU NPRCRTC) formally received on November 11, 2020, its certificate of accreditation as potato seed producer from the National Seed Quality Control Services of the Bureau of Plant Industry (BPI) after complying with the findings and recommendations of the evaluation team from BPI. With the accreditation, buyers are ensured to acquire clean and quality seed potato planting materials from the Center. According to the accreditors, NPRCRTC is the first institution to be accredited in the Cordillera Administrative Region.