

# CURRICULUM VITAE

## **Christian Joseph R. Cumagun Dr. sc. agr.**

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**US Permanent Resident (No IOE0353260212) since 04/04/19 until 04/04/29**

**Idaho Driver's License (No AD005926L) since 07/28/2020 until 12/05/2028**

### **Education**

- Bachelor of Science in Agriculture, major in Plant Pathology, minor in Entomology (1993), University of the Philippines Los Baños (UPLB) (honor roll)
- Master of Science in Plant Pathology, minor in Environmental Science (1998), The Royal Veterinary and Agricultural University, Copenhagen (University of Copenhagen), Denmark and the University of the Philippines Los Baños
- Doktor der Agrarwissenschaften, in the areas of Plant Pathology, Plant Breeding, and Molecular Biology (2004), State Plant Breeding Institute, University of Hohenheim, Stuttgart, Germany (*magna cum laude*)
- Postdoctoral Researcher (2009-2011), Kobe University, Japan, (2013), ETH Zurich, Switzerland (2014) University of Sao Paulo, Brazil, (2017-2019) University of Göttingen, Germany

### **Technical Skills**

molecular analyses (SSR, AFLP, RAPD, UP-PCR, qPCR, RFLP, rDNA-ITS1, SSR, LAMP, TaqMan qPCR, western blot, Southern hybridization), mycotoxin analyses (ELISA, HPLC), multiplexing of SSR reactions, use of 48 capillary ABI sequencers, field and genetic statistics, computer literacy (R software)

### **Language Proficiency**

Fluent in written and spoken English, Filipino, German, Cebuano; conversant in Japanese and with limited knowledge of Spanish

Passed Zertifikat Deutsch, Goethe Institute, Mannheim, Germany (2000)

Received Certificate of Language Training, Marga Japanese Language School, Kobe, Japan (2009)

### **Career History**

#### **Senior Research Scientist and Plant Pathologist**

##### **University of Idaho**

##### **Department of Entomology, Plant Pathology and Nematology**

June 2021 to present

- Handles walk-in inquiries from growers and the public to the lab related to plant disease issues
- Conducts lab and field research on seed-borne diseases of cereals, potatoes, sugar beets and vegetable crops with focus on validation of detection methods and characterization of fungal diseases of plants
- Delivers lectures to the industry, farmers and growers on research updates on crop diseases of Idaho

**Adjunct Professor**  
**Brigham Young University- Idaho, USA**  
**Department of Biology**

August 2020 – present

- Teach online BIO 180, Introduction to Biology 1 (Biological chemistry, Cellular structure and function, Metabolism) and BIO475 Evolutionary Science using Canvas

**Scientist Business Development**  
**OPS Diagnostics**

October 2023- present

- Review and develop scientific literature to grow the company's business
- Public outreach and market the company's products for testing and validation

**Technical Staff**  
**Advanced Manufacturing Prototype**  
**R&D Department**

**Chobani, American Food Company**

July 2020 – June 2021

**Associate Staff**  
**Lamb Weston, Food Processing Company**

May 2020- June 2020

**Adjunct Professor**  
**University of the Philippines Los Baños (UPLB)**  
**Institute of Weed Science, Plant Pathology and Entomology**  
April 2020 – July 2022

**Alexander von Humboldt Fellow (for Experienced Researchers)**  
**University of Göttingen, Germany**

**Molecular Phytopathology and Mycotoxin Research**

August 2017 to July 2019, December 2019- July 2020 (Return Fellowship)

Appointment: 100% Research

- Research Group Leader on Mycotoxins and Fungal Secondary Metabolites
- Trained in quantitative PCR, sequencing and toxin extraction techniques
- Mentored undergraduate and graduate students on their thesis projects

**Full Professor/Professor 12**  
**University of the Philippines Los Baños (UPLB)**  
**Institute of Weed Science, Plant Pathology and Entomology**

2014 to 2020, Instructor since 1993 and rose to the rank of Assistant and Associate Professor to Professor

Appointment: Teaching (30%), Research (50%), Extension (20%)

- Taught courses in basic and advanced plant pathology courses, issues in agricultural development, scientific writing and communication for undergraduate and graduate students
- Mentored BS, MS and PhD students on their theses and dissertations
- Affiliated faculty member of the Microbiology and Molecular Biology Graduate Program
- Principal Investigator of several research projects funded by national and international organizations
- Collaborated with private industries such as BASF, Bayer, East West Seed Center, TADECO (under Del Monte), in terms of students' practicum and theses

**Visiting Professor**  
**Kobe University, Japan**  
**Organization of Advanced Technology and Science and Core Research Team**

July 2014 – March 2015

Appointment: Teaching (100%)

- Taught large-class lectures to undergraduate and graduate students in agricultural sciences
- Collaborated with Kobe University on student exchange and English program offered by UPLB. Several Japanese students come to UPLB each year up to the present to study English
- Provided training for The JSPS Exchange Program for East Asian Young Researchers (Preservation of Bio Resources in South East Asia to Avoid the Food Crisis)

**Coordination for the Improvement of Higher Education Personnel (CAPES) Visiting Professor**

**UNESP – Sao Paulo State University, Brazil**

June 2014 – July 2014

Appointment: Research 70% Teaching (30%)

- Performed data analyses in population biology and genetics of fungal pathogens
- Taught courses in tropical agriculture and plant pathology to graduate students

**Guest Scientist**

**ETH Zurich, Switzerland**

October to November 2013

Appointment: Research (100%)

- Conducted research on population genetics of the rice fungal pathogen from China, Japan and the Philippines
- Trained in multiplexing of SSR reactions and use of 48 capillary ABI sequencers

**Associate Dean**

**University of the Philippines Los Baños**

2008-2009; 2011-2014

Appointment: Administration (60%), Extension (20%) and Teaching (20%)

- Conducted evaluation of existing curricular programs and prepare recommendations as necessary
- Evaluated proposals for institution of new courses and instructional programs from the various units
- As Chair of the College Student Admission Committee, reviewed existing student admission guidelines and advised the Dean on this matter including under existing partnership agreements (student exchange under MOU with other universities)
- Chaired the Staff Development Program whose task is to formulate hiring plan, retooling plan through participation in various training programs, symposia and conferences and graduate education plan for those needing MS and PhD degrees and a mentoring program to assist the junior faculty
- Chaired the offering a new degree program - Bachelor of Science in Agricultural Biotechnology at the College. The program is first of its kind in the Philippines, maximizes the contributions of our College in human resource development and links the skills and talents of new graduates into the mainstream of global development in modern agriculture and environmental science. The College increased the students taking up agriculture at UPLB to close to 100%.
- Spearheaded the accreditation of the College by the Asian University Network (AUN) in 2015
- Acted as main resource person in Knowledge Channel sponsored by Landbank which launched educational video series on the merits of agriculture and its critical implication on human life. The AgriCOOLture video series is being aired four times during the scheduled airing week for five school years and featured episodes about crop production and harvest, poultry raising, and aquaculture and fisheries.
- Oversaw the overall implementation of the TQM program in the College. A new Student Evaluation for Teachers (SET) has been developed based on the principles of TQM and pilot tested to a basic course in crop protection consisting of 125 undergraduate students. The SET was administered at mid- and post-semester. There was an increase in SET scores at the post-evaluation period. This mid-evaluation strategy allowed time for the faculty to improve performance in teaching by addressing the students' comments at mid evaluation.

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**Postdoctoral Fellow, Japan Society for the Promotion of Science (JSPS)**

**Kobe University, Japan**

**Graduate School of Agricultural Science**

July 2009 – July 2011

Appointment: Research (100%)

- Member of the international research team working on molecular cloning of avirulence genes of the most important pathogen in rice. Provided evidence on the emergence of wheat blast in Brazil and Bangladesh which was published in *Science*.
- Trained in research techniques such as pathogen and resistance gene marker mapping, Southern hybridization, fungal crossings, phenotypic analyses in greenhouse and with exposure to electron transmission microscopy
- Held trainings for young plant pathologists from Asia at Kobe University thru the JSPS Exchange Program for East Asian Young Researchers (Preservation of Bio Resources in South East Asia to Avoid the Food Crisis) in 2010
- Participated in Science Dialogue in Japanese High School

**Secretary of the College of Agriculture and Food Science, UPLB**

**Administration (60%) and Teaching (40%)**

**2007-2008**

- Prepared the minutes of the College Faculty Meeting
- Informed students during registration of their schedule, curricula and other matters and assisted in the supervision of student activities
- Helped execute decisions of committees of the college/ school and of the University authorities affecting students
- Ensured requirements for graduation are fulfilled
- Counseled delinquent students

**Division Head of Crop Protection Biotechnology and Product Utilization, UPLB**

**2006-2007**

Administration (40%) and Teaching (60%)

- Provided leadership to faculty and research staff working on applied research in crop protection
- Reviewed and recommended research proposals of staff members to the Director

**UNESCO Fellow in the Basic Sciences**

**Faculty of Science, University of Copenhagen, Denmark**

October 1997 – Jan 1998

Appointment: Research (100%)

- Conducted research on fungal taxonomy and biological control of plant pathogens using phenotypic and molecular tools

**Fields of interest:** fungal population genetics and toxins, mycology, molecular plant pathology, biological control, and diagnostics

**Teaching and mentoring**

**Undergraduate courses:** Crop Protection, Pest Management, Plant Disease Control, Postharvest Pathology, Research Methods in Plant Pathology and Agriculture, Colloquium in Agriculture Issues and Development

**Graduate courses:** Advanced Plant Disease Control, Special Topics in Molecular Biology and Biotechnology, Seminar in Crop Protection

**Number of students supervised/graduated (as major professor)**

24 undergraduate students, 13 master's students, 10 PhD students

## Awards, Honors, Fellowships and Grants

1. Balik Scientist Award (2025) at Polytechnic University of the Philippines. Philippine Department of Science and Technology.
2. Humboldt Research Fellowship of the Alexander von Humboldt Foundation (2017) (921 out of 3381 applicants)
3. Best Paper Presenter, 3rd Humboldt Kolleg, Jakarta, Indonesia (2017)
4. UPLB's Most Outstanding Researcher (2016)
5. Top 150 Filipino Scientists/Scholars 2015 by Webometrics (Rank No 74)
6. One UP Professorial Grant (2015-2018, 2019-2021)
7. University of the Philippines Scientist III (2014-2016, 2017-2019)
8. British Mycological Society International Mycological Congress Bursary Award (2014)
9. Bangko Sentral ng Pilipinas (BSP) Professorial Chair (2014)
10. Best Poster, Mycological Society of the Philippines (2014)
11. International Society for Plant Pathology Travel Award (2013)
12. Eusebio Y. Garcia Award in Molecular Biology and Pathology, National Research Council of the Philippines (2013)
13. Visiting Scientist Fellowship, Swiss Federal Institute and Technology (ETH) Global Small Grant 2013
14. Biovision Catalyzer Award (finalist), 8<sup>th</sup> Edition, The World Life Science Forum, Lyon, France, (2013)
15. Eisenhower Fellow (finalist), Philadelphia, USA (2013)
16. Outstanding Alumnus (Science), The Mabini Academy, Lipa City (2012)
17. The World Academy of Sciences (TWAS) Young Affiliate, Trieste, Italy (2009-2013)
18. DOST Outstanding Research and Development Award-Eduardo Quisumbing Medal (2012)
19. UP System Research Dissemination Grant (2012, 2013, 2014, 2016)
20. Kirkhouse Trust, UK Travel Award (2012)
21. Japan Society for the Promotion of Science (JSPS) Research Fellowship (2009-2011) (170 out of 965 applicants)
22. University of the Philippines Scientist II (2011-2013)
23. The Outstanding Young Men (TOYM) Award in Agriculture, Junior Chamber International (2008) (5 out >100 nominees)
24. Foundation-fiat panis Travel Award, Ulm Germany (2011)
25. Congress Bursary Award, International Congress for Plant Pathology, Turin, Italy (2008)
26. Outstanding Scientific Paper Award, National Academy of Science and Technology (2008)
27. Gerardo O. Ocfemia Outstanding Plant Pathologist's Award, Philippine Phytopathological Society (2008)
28. University of the Philippines Scientist I (2008-2010)
29. Marquis Who's Who in Science, International Biographical Centre, UK (2008)
30. Editor's Pick, Research Article published in *Journal of Phytopathology* (Wiley-Blackwell, USA) (2008)
31. Elected Member, The Honor Society of Phi Kappa Phi (2008)
32. Nelia T. Gonzales Outstanding Researcher, UPLB College of Agriculture (2007)
33. Australian Academy of Technological Sciences and Engineering (ATSE) Crawford Training Award (2007)
34. Outstanding Young Scientist (Agricultural Sciences), National Academy of Science and Technology (2007)
35. Southeast Asian Regional Center for Graduate Studies in Agriculture (SEARCA) Travel Grant (2007)
36. Kirkhouse Trust, UK, Travel Award (2007)
37. SEARCA Professorial Chair Lecture Award (2008)
38. Metro Manila Commission Professorial Chair Lecture Award (2007)
39. Vicente Sinco Professorial Chair Lecture Award (2006)
40. Winner, National Academy of Science and Technology (NAST)-Du Pont Talent Search for Young Scientists Award (2005)
41. CIMMYT Postdoctoral Fellowship Award, Mexico (2005), declined because of faculty position (1 out of 65 applicants worldwide)

42. German Academic Exchange Service (DAAD) PhD. Scholarship (2000-2004)
43. Best M.Sc. Thesis (Finalist), Gamma Sigma Delta Honor Society of Agriculture (1999)
44. UNESCO/ICSU/TWAS Fellowship in the Basic Sciences, The Royal Veterinary and Agricultural University, Copenhagen, Denmark (1997)
45. International Fusarium Training Award, University of Sydney, Australia (1994)
46. University of the Philippines International Publication Awards (>10 times)
47. Eiselen Foundation Travel Award, Ulm, Germany (2003, 2006)
48. University of Hohenheim Federation Travel Award (2002, 2003)
49. University of the Philippines Faculty Development Grant for Teaching and Research (1997-1998)
50. University of the Philippines Presidential Scholarship for Graduate Studies (1996-1998)
51. Pest Management Council of the Philippines Best Undergraduate Thesis in Plant Pathology (1993)
52. Gerardo O. Ocfemia Undergraduate Scholarship (1990-1992)

## Research and Extension Funding

1. Developing a database of seed testing services to facilitate export of Idaho seed Specialty Crop Block Grant (2023-2025)
2. Seed transmission and management of High Plains Wheat Mosaic Virus in sweet corn seed crops, Specialty Crop Block Grant (2023-2025).
3. Determining the risk of seed-borne diseases to onions in Idaho and Eastern Oregon Idaho-Eastern Oregon Onion Committee (2022)
4. On-the-Job Research Capacity Building for Sustainable Agriculture in Developing Countries, United Nations University, Tokyo, Japan (2012)
5. Population genetics of *Rhizoctonia solani* from rice-based cropping systems, International Foundation for Science (IFS), Sweden (2012-2014)
6. Genetic structure of populations of *Magnaporthe oryzae* from rice based cropping systems French Embassy, Manila (2012)
7. Molecular cloning of *PWT3* avirulence gene of *Magnaporthe oryzae*, Japan Society for the Promotion of Science (JSPS) (2009-2011)
8. *Fusarium* genetics and mycotoxins funded by UPLB, East West Seed Company, PhilRice, and International Foundation for Science (IFS), Sweden (2005-2008)
9. Lucid guide for the identification of Cercosporoid fungi in the Philippines, Department of Primary Industries, Queensland, Australia (2007-2008)
10. Evaluation of Transgenic PRSV Resistant Papaya for Resistance to Major Diseases funded by USAID (2006-2008)
11. *Fusarium* genetics in wheat funded by the German Academic Exchange Service (DAAD) (2000-2004)
12. Induced resistance in subtropical fruits for the prevention of decay initiated from quiescent infecting pathogens funded by USAID (1999-2000)
13. Crop residue decomposition and *Trichoderma* for disease management in rice-based cropping systems funded by USAID (1996-1998)
14. Further studies on the enhancement, enzymatic activity, and survival of *Trichoderma* spp. in soil funded by University of the Philippines Los Baños (1999-2000)
15. Philippine Rice Research Institute Research Grant for BS and MS theses (1992, 1996)

## Editorial Responsibilities for International and National Journal

Mycology Editor, *New Disease Reports* (2023 -present)  
 Editorial Board Member, *The Plant Pathology Journal* (Korean Society of Plant Pathology) (2009-present), *Indonesian Journal of Phytopathology* (2026)  
 Editor-in-Chief: *Journal of Tropical Plant Pathology* (2007-2009), *The Philippine Agricultural Scientist* (2015- 2017), Editor-In-Charge: *Philippine Science Letters* (2019)  
 Reviewer: *PNAS Nexus* (2025), *Protoplasma* (2019), *Pesticide Biochemistry and Physiology* (Elsevier) (2019), *Journal of Phytopathology* (Wiley) (2017, 2018, 2019), *Journal of Agriculture and Food Chemistry* (American Chemical Society) (2017), *Australasian Plant Pathology*, *Australasian Plant Disease Notes* (Springer) (2017), *Rice Science* (Elsevier) 2016, *Journal of*

*Applied Microbiology* (John Wiley & Sons, US) (2015), *Food Biotechnology* (Taylor & Francis, UK) (2015, 2018), *Phytopathology, Plant Disease* (American Phytopathological Society) (2015, 2019), *Brazilian Journal of Microbiology* (2015), *Journal of Plant Pathology* (Italian Phytopathological Society) (2014, 2016, 2017), *Plant Pathology* (Wiley Blackwell, USA), (2014, 2019)

*Acta Agriculturae Scandinavica, Section B - Plant Soil Science* (Taylor & Francis, UK) 2014, *Phytoparasitica* (Springer, Netherlands) 2013, *ISSAAS Journal* (2013), *European Journal of Plant Pathology* (Springer, Netherlands) (2012), *Biocontrol Science and Technology* (Taylor & Francis, UK) (2012), *Mycopathologia* (Springer, Netherlands) (2009) *Philippine Journal of Crop Sciences, Philippine Journal of Science, Philippine Science Letters* (2019)

## **Major Professional activities**

### **Position: Trainor, On-the-Job Research Capacity Building for Sustainable Agriculture in Developing Countries**

Institution: Plant Quarantine Service, Regional Crop Protection Center in Cebu City, and Catarman, Northern Samar, Philippines

Duration: 2012-2014

- Actively involved in capacity building of extension personnel in two regions
- Provided the leadership in improving the research capacity and output, as well as the qualification of trainees as plant health specialists in their respective regions. The knowledge and skills gained by the participants from the training have strengthened the plant health capacity of the two regions and thus, improved plant disease diagnosis activities at the quarantine sites
- Trained the chief extension specialist of the Plant Pest Clinic, UPLB for many years in terms of identification of disease specimens brought by farmers

Position:

### **President, Mycological Society of the Philippines**

Duration: 2013-2014

- Focused the Society's efforts on outreach activities about fungi. by participating in the annual science outreach activity of the Los Baños Science Community Foundation, Inc. Around 6,000 elementary and high school students mainly from Laguna and Manila came to see the booth featuring the society and highlighting the importance of fungi
- Delivered mycological lectures to Grade IV students in Los Baños
- Conducted fungal disease diagnosis workshop to participants from several state college and universities

Position:

### **President, Gamma Sigma Delta-Honor Society of Agriculture**

Duration: 2013-2014

- Surveyed high school students in Laguna province in terms of choice of agriculture as a degree course in college/university
- Provided the leadership in recruiting membership of excellent students to the Society.
- Held competition for Best BS, MS, and PhD theses/dissertations

Position:

### **President, Philippine Phytopathological Society**

Duration: 2006-2007

- Presided during Annual Conference of the Society and held Farmers' Field Day as part of the society's outreach activities
- Represented the society in the Pest Management Council of the Philippines

## **Other Professional Activities**

2025 Advanced Placement (AP) Reader, Biology, Kansas City, Missouri

2023 External Reviewer, Australian Centre for International Agricultural Research (ACIAR Project) HORT/2018/192 – An Integrated Management Response to the Spread of Fusarium wilt of Banana in Southeast Asia, Vientiane, Laos

2019 External Reviewer, Doctoral Dissertation, University Putra Malaysia, Malaysia  
 2018 External Reviewer, Doctoral Dissertation, Stellenbosch University, South Africa  
 2016 Judge, National Genetics Quiz Contest, UPLB Genetics Society  
 2013-15 Reviewer of applications under the TWAS Research and Advanced Training Fellowship Programme.  
 2014 External Reviewer, Doctoral Dissertation, University of Karachi, Pakistan  
 2013 Reviewer of applications under the TWAS Research and Advanced Training Fellowship Programme, Italy  
 2013 External Evaluator, International Service for the Acquisition of Agri-Biotech Applications (ISAAA)  
 2013 Judge, Sigma Xi, Scientific Research Society, Student Research Showcase, N.C., USA  
 2013 Member, International Society for Plant Pathology (ICPP) Teaching Committee  
 2012 Vice President, Mycological Society of the Philippines  
 2012 Chair, Search Committee for the New Director, Institute of Biological Sciences, UPLB  
 2012 Member, Tropical Plant Pathology Committee, American Phytopathological Society, USA  
 2007-12 International Society for Plant Pathology Councilor, Italy  
 2007-12 Member, 3rd House of Delegates, Asian Association of Societies for Plant Pathology, Indonesia  
 2012 Judge, Science Investigatory Project, Montessori, Alabang  
 2011 Judge, National Caricature Contest on Biotechnology, International Service for the Acquisition of Agri-biotech Applications (ISAAA)  
 2011 Reviewer of Research Proposals, Bureau of Postharvest Agriculture and Extension, Nueva Ecija  
 2009 External Examiner, Doctoral Dissertation, Banaras Hindu University, India  
 2008 Reviewer of Book Proposal "Natural Products in Pest Management" CABl, UK  
 2007 Technical Reviewer, Philippine Commission on Higher Education (CHED) Proposals  
 2006 Auditor, Mycological Society of the Philippines  
 2005 Vice President, Philippine Phytopathological Society

#### **Invited Presentations (Selected)**

2024 Invited Speaker, Humboldt Kolleg on Climate Change in Asia, Surabaya, Indonesia,  
 2024 Invited Lecture, North Carolina Agricultural and Technical State Uni, Greensboro, USA  
 2022 Invited Lecture, University of Arkansas, Stuttgart, USA  
 2021 Invited Speaker, International Agriculture (AgEd160) University of Idaho, USA  
 2021 Invited Lecture, Japan US Science Forum, Boston, USA (online)  
 2021 Keynote Speaker, Halu Oleo University, Sulawesi, Indonesia (online)  
 2021 Plenary Speaker, Indian Phytopathological Society, New Delhi, India (online)  
 2020 Invited Lecture, Japan US Science Forum, Boston, USA (online)  
 2019 Invited Lecture, Ecole Supérieure d'Agriculture du Kef, Tunisia  
 2019 Invited Lecture, 3<sup>rd</sup> TYAN International Workshop, Monastir, Tunisia  
 2019 Invited Lecture, Brigham Young University, Provo and Idaho Campuses, USA  
 2016 Invited Lecture, Indian Phytopathological Society, New Delhi, India  
 2015 Invited Lecture, Hanoi, Vietnam  
 2015 Invited Lecture, University of Southern Mindanao, North Cotabato  
 2015 Invited Lecture, Agri-Biotech Symposium, UPLB  
 2014 Invited Lecture, Kobe University, Japan  
 2013 Invited Lecture, University of Saarbruecken, Germany  
 2013 Invited Lecture, Department of Agriculture, Cebu City  
 2013 Invited Lecture, University of Eastern Philippines, Catarman  
 2012 Invited Lecture, Maejo University, Thailand  
 2012 Plenary Speaker, 5<sup>th</sup> Crop Protection Conference, East West Seed Company, Philippines  
 2012 Plenary Speaker, Kobe University's Faculty Exchange Program with Partner Institution, Kobe University, Japan  
 2012 Invited Speaker, Careers in Agriculture, University of the Philippines Rural High School  
 2012 Invited Speaker, Careers in Agriculture, Montessori School, Alabang  
 2011 Invited Lecture, Science Dialogue, Takada High School, Mie, Japan  
 2009 Invited Lecture, TWAS Conference, Durban, South Africa  
 2009 Plenary Speaker, Philippine Phytopathological Society Meeting, Central Luzon State University

- 2009 Plenary Speaker, Mycological Society of the Philippines
- 2009 Guest Speaker, Gamma Sigma Delta, Honor Society of Agriculture
- 2009 Commencement Speaker, Christian School International (High School), Philippines
- 2009 Inspirational Talk, Research Proposal Writing, Philippine Department of Science and Technology

### Recent Extension Presentations and Conference Papers

1. Cumagun, C.J. and Woodhall, J. 2025. Plant Disease Diagnostics in Idaho. Western Idaho Ag Show, Caldwell, Idaho, January 28-29, 2025.
2. Cumagun, C.J. and Woodhall, J. 2024. Introducing DiagFinder. IAPP Meeting, Twin Falls, Idaho, November 19, 2024.
3. Cumagun, C.J. 2024. Early Detection and Response: Plant Disease Surveillance Amid Climate Shifts. Humboldt Kolleg on Climate Change in Asia, Surabaya, Indonesia, September 18-21, 2024.
4. Cumagun, C.J. 2024. Plant Pathology and Diagnostics. Canyon County Master Gardener Class, Parma, Idaho, April 17 and December 18, 2024.
5. Cumagun, C.J. 2024. Pernicious Plant Problems. Horticulture Symposium, Idaho Falls, Idaho, March 9, 2024.
6. Cumagun, C.J. and Woodhall, J. 2022. *Pythium aphanidermatum* in Idaho and Eastern Oregon associated with the 2021 Western North American heat wave. APS Annual Meeting, Plant Health 2022, Pittsburgh, Pennsylvania, August 6-10, 2022.
7. Cumagun, C.J., Wood, B., Ballou, C., Woods, H., Murdock, M., and Woodhall, J. 2022. Occurrence of *Pythium aphanidermatum* due to the Pacific Northwest 2021 heat wave. 6th National Meeting, UC Davis, California, April 26-30, 2022.
8. Cumagun, C.J. and Woodhall, J. 2022. Parma Research and Extension Update. Western Plant Disease Network Regional Meeting, UC Davis, California, April 27, 2022.
9. Cumagun, C.J., Wood, B., Ballou, C., Woods, H., Murdock, M., and Woodhall, J. 2022. Occurrence of *Pythium aphanidermatum* due to the Pacific Northwest 2021 heat wave. IHHE Annual Research Symposium, IRIC ATRIUM, University of Idaho, Moscow, April 7, 2022.
10. Cumagun, C.J. and Woodhall, J. 2022. *Pythium* diseases in beans—new findings from 2021. 2022 Bean School, Hampton Inn, Twin Falls, and The Belle Event Center, Nampa, Idaho, January 26, 2022.
11. Woodhall, J. and Cumagun, C.J. 2021. Seed Pathology Research at the Parma R & E Center. IEOA Virtual Winter Convention, November 30–December 01, 2021.
12. Cumagun, C.J. and Woodhall, J. 2021. Management and epidemiology of CLS of sugar beets in Idaho. Idaho Association of Plant Protection 2021 Annual Meeting, Burley, Idaho, November 6-7, 2021.

### Paper Presentations

Oral and poster papers presented in several international scientific conferences (Brazil, Japan, China, Denmark, Germany, Poland, USA, UK, India, South Africa, Austria, Australia, Argentina, Thailand, Indonesia, South Korea, Vietnam, Italy, Tunisia, and Portugal) and national conferences in the Philippines

### Administrative/Specialized Trainings/Workshops

1. USDA Beltsville Workshop on Morphological Fungal Identification Training, Maryland, USA (2024)
2. USDA Beltsville Workshop on Molecular Detection of Phytophthora, Maryland, USA (2023)
3. Seed Biology, Quality & Pathology Course, University of California, Davis, USA (2022)
4. National Plant Diagnostic Network (NPDN) USDA Beltsville Workshop on Seed Pathogen Testing and Potato Wart, Maryland, USA (2022)

5. DAAD Alumni Seminar, Goettingen and Kassel, Germany (2019) Learned the following skills: Scientific Debating about Sustainable Agriculture – Biodiversity protection supported by breeding, biological plant protection and mixed crop cultivation"
6. Master Class in Agriculture Leadership and Management, Penang, Malaysia (2016). Learned the following skills: The General Principles of Management, Strategy Development and Strategic Planning, Research Programs and Program Management Planning and Evaluation: Understanding Logic Models, Issues in Organising and Resourcing your Research Activities, Financial Management, Project and Program Management Systems, Human Resource Management and Communication from a Managers Perspective
7. DAAD Alumni Seminar, Witzenhausen and Nuernberg, Germany (2016). Learned the following topics: Quality Management Along Organic Agri-Value Chains: Production, Postharvest Technology, Processing, Marketing and Trade
8. Theoretical and Practical Course "Loop-Mediated Isothermal Amplification (LAMP) Technique for Rapid Detection of Phytoplasma, ICGEB Course, Nong Lam University, Ho Chi Minh, Vietnam (2015)
9. Executive Forum on Food Security: Leaders in ASEAN Agriculture and Development, SEARCA, Laguna (2015). Learned the following topics: Sustainable Rural Development, Conserving Natural Resources in the Environment, Competitive Agricultural Exports, Food Security of Rural and Urban Populations
10. Dialogue on Innovative Higher Education Strategies (DIES), International Deans' Course, Osnabrück University of Applied Sciences, Osnabrück, Germany (2012-2013). Learned the following topics: Higher Education System in Germany and Asia, Financial Management, Strategic Faculty Management, Changing Nature of University Governance, Project Action Plan, Soft Skills Workshop, Quality Management, Leadership and Cooperation
11. Lucid Workshop for Plant Pathologists, University of Queensland, Australia (2007)
12. Cercosporoid Training Workshop, BIOTEC Pathum Tani, Thailand (2007)
13. *Fusarium* and Related Species Workshop, University of Sydney, Australia (1994)

### **Membership in Honor Societies/ Scientific Organizations**

The World Academy of Sciences (TWAS)  
 TWAS Young Affiliate Network  
 US and Canada JSPS Alumni Association  
 American Friends of the Alexander von Humboldt (AvH)  
 DAAD Alumni Association of the USA  
 National Plant Diagnostic Network (NPDN)  
 Outstanding Young Scientists of the Philippines Inc.  
 Council of Asian Science Editors  
 Gamma Sigma Delta Honor Society of Agriculture  
 Sigma Xi, The Scientific Research Society  
 The Honor Society of Phi Kappa Phi  
 American Phytopathological Society  
 National Plant Diagnostic Network  
 German Plant Medical Society  
 German Society of Plant Breeding  
 Phytopathological Society of Japan  
 British Mycological Society  
 Mycological Society of the Philippines  
 National Research Council of the Philippines  
 Philippine Phytopathological Society  
 Philippine Academy of Outstanding Young Scientists, Inc  
 International Subcommision on *Trichoderma* and *Hypocrea* Taxonomy

### **Recent Rice Paper Presentations**

Monsur, M. A, Navea, I.P., Yanoria, M.J., Cumagun, C.J.R., Kadaru, S., Kim, Sung-Ryui & Schepler Luu, Van. (2025), Identification and deployment of resistance genes for leaf and neck blast of rice. Presented at the Australasian Plant Pathology Society Conference 2025

Telebanco, M. J., Monsur, M. A., Pangga, I., Cumagun, C. J. R., & Luu, V. S. (2023). Identification of neck blast resistance gene loci in rice (*Oryza sativa* L.) through Genome-Wide Association Studies (GWAS) and Genotyping-by-Sequencing (GBS). Presented at the International Rice Congress 2023 (IRC2023), Manila, Philippines.

Bhuiyan, M. R., Telebanco-Yanoria, M. J., Fukuta, Y., Cumagun, C. J. R., & Pangga, I. B. (2023). Characterizing blast pathogen's avirulence gene profile in Bangladesh: Insights into disease dynamics. Presented at the International Rice Congress 2023 (IRC2023), Manila, Philippines.

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(total: 86 journal articles, 1 edited book, 7 book chapters, h-index =25, Citations >2744,  
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2. **Cumagun, C.J.R.** 2014. Striking a Balance Between Academic Excellence and Social Relevance of the University of the Philippines and its Faculties, In: Scholz, C and Stein, V. (eds.) -The Dean in University of the Future- Hampp Verlag, Germany.

#### Voluntary Activities

##### Full time missionary

Duration: 1988-1990

- Served as volunteer religious worker at the Philippines Davao Mission, Mindanao, Philippines
- Learned the value of time management, discipline, hard work and persistence in times of adversity

**UPLB Student Volunteer**

Duration: April to May 1993

- Taught bio-intensive gardening and mushroom cultivation to the displaced Aetas (Philippine Natives) in Zambales due to the volcanic eruption, Mt. Pinatubo, Philippines

**Hobbies**

Watercolour and oil painting, stamp and coin collection, antique prints and map collection

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