

## CURRICULUM VITAE

**Christian Joseph R. Cumagun**  
**Professor 12 of Plant Pathology**  
**College of Agriculture, University of the Philippines Los Baños (UPLB)**



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### Education

- Bachelor of Science in Agriculture (1993), University of the Philippines Los Baños (UPLB) (honor roll)
- Master of Science in Plant Pathology (1998), The Royal Veterinary and Agricultural University, Copenhagen (University of Copenhagen), Denmark and the University of the Philippines Los Baños
- Doktor der Agrarwissenschaft, (2004), University of Hohenheim, Stuttgart, Germany (*magna cum laude*)
- Postdoctoral Research Fellow (2009-2011), Kobe University, Japan

**Date and Place of Birth:** December 05, 1969, Manila, Philippines

Married to Casey Rose Cumagun

Children: Christian Jr., Chelsea, Johann Siegfried and Sayuri Sakura

**Church membership:** Active in the Church of Jesus Christ of Latter Days Saints (LDS or the Mormons).

### Appointments

2017-present	Research Fellow, Alexander von Humboldt Fellowship, University of Goettingen, Germany
2014	Part-Time Lecturer, Graduate School of Agricultural Sciences, Kobe University, Japan
2014	Visiting Professor, UNESP, Campus de Ilha Solterea, Sao Paulo, Brazil
2011-2015	Associate Dean, College of Agriculture, University of the Philippines Los Baños
2013	Visiting Scientist, Swiss Federal Institute of Technology, (ETH), Zurich
2009-2011	Research Fellow, JSPS Fellowship, Kobe University, Japan
2008-2009	Associate Dean, College of Agriculture, University of the Philippines Los Baños
2007-2008	Secretary, College of Agriculture, University of the Philippines Los Baños
2007-2008	Head of the Crop Protection Biotechnology Division, Crop Protection Cluster
2014- present	Professor 12, College of Agriculture, University of the Philippines Los Baños
2007-2008	Associate Professor, College of Agriculture, University of the Philippines Los Baños
2000-2004	German Academic Exchange Service (DAAD) Fellow, University of Hohenheim, Germany
1999-2006	Assistant Professor, College of Agriculture, University of the Philippines Los Baños
1999-2000	UNESCO Fellow, The Royal Veterinary and Agricultural University, Denmark
1992-1998	Instructor, College of Agriculture, University of the Philippines Los Baños

**Fields of interests:** fungal population genetics, molecular plant pathology, biological control

### Teaching and mentoring

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

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

### **Number of students supervised/graduated**

>20 undergraduate students, 8 master students, 3 PhD students

### **Curriculum Program**

As Chair of the College Curriculum Committee, I facilitated the offering of Bachelor of Science in Agricultural Biotechnology to address the declining of agriculture students at UPLB. This new program, the first of its kind in the Philippines, maximizes the contributions of the College of Agriculture 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.

### **International and National Honours and Awards**

1. Georg Forster Research Fellowship of the Alexander von Humboldt Foundation (2017) (921 out of 3381 applicants)
2. UPLB's Most Outstanding Researcher (2016)
3. Top 150 Filipino Scientists/Scholars 2015 by Webometrics (Rank No 74)
4. One UP Professorial Grant (2015-2018)
5. University of the Philippines Scientist III (2014-2016)
6. British Mycological Society International Mycological Congress Bursary Award (2014)
7. Bangko Sentral ng Pilipinas (BSP) Professorial Chair (2014)
8. Best Poster, Mycological Society of the Philippines (2014)
9. International Society for Plant Pathology Travel Award (2013)
10. Eusebio Y. Garcia Award in Molecular Biology and Pathology, National Research Council of the Philippines (2013)
11. Visiting Scientist Fellowship, Swiss Federal Institute and Technology (ETH) Global Small Grant 2013
12. Biovision Catalyzer Award (finalist), 8<sup>th</sup> Edition, The World Life Science Forum, Lyon, France, (2013)
13. Eisenhower Fellow (finalist), Philadelphia, USA (2013)
14. Outstanding Alumnus (Science), The Mabini Academy, Lipa City (2012)
15. The World Academy of Sciences (TWAS) Young Affiliate, Trieste, Italy (2009-2013)
16. DOST Outstanding Research and Development Award-Eduardo Quisumbing Medal (2012)
17. UP System Research Dissemination Grant (2012, 2013, 2014,2016)
18. Kirkhouse Trust, UK Travel Award (2012)
19. Japan Society for the Promotion of Science (JSPS) Research Fellowship (2009-2011) (170 out of 965 applicants)
20. University of the Philippines Scientist II (2011-2013)
21. The Outstanding Young Men (TOYM) Award in Agriculture, Junior Chamber International (2008) (5 out >100 nominees)
22. Foundation-fiat panis Travel Award, Ulm Germany (2011)
23. Congress Bursary Award, International Congress for Plant Pathology, Turin, Italy (2008)
24. Outstanding Scientific Paper Award, National Academy of Science and Technology (2008)
25. Gerardo O. Ocfemia Outstanding Plant Pathologist's Award, Philippine Phytopathological Society (2008)
26. University of the Philippines Scientist I (2008-2010)
27. Marquis Who's Who in Science, International Biographical Centre, UK (2008)
28. Editor's Pick, Research Article published in *Journal of Phytopathology* (Wiley-Blackwell, USA) (2008)
29. Elected Member, The Honor Society of Phi Kappa Phi (2008)
30. Nelia T. Gonzales Outstanding Researcher, UPLB College of Agriculture (2007)
31. Australian Academy of Technological Sciences and Engineering (ATSE) Crawford Training Award (2007)

32. Outstanding Young Scientist (Agricultural Sciences), National Academy of Science and Technology (2007)
33. Southeast Asian Regional Center for Graduate Studies in Agriculture (SEARCA) Travel Grant (2007)
34. Kirkhouse Trust, UK, Travel Award (2007)
35. SEARCA Professorial Chair Lecture (2008)
36. Metro Manila Commission Professorial Chair Lecture (2007)
37. Vicente Sinco Professorial Chair Lecture (2006)
38. Winner, National Academy of Science and Technology (NAST)-Du Pont Talent Search for Young Scientists Award (2005)
39. CIMMYT Postdoctoral Fellowship Award, Mexico (2005), declined because of faculty position (1 out of 65 applicants worldwide)
40. German Academic Exchange Service (DAAD) PhD. Scholarship (2000-2004)
41. Best M.Sc. Thesis (Finalist), Gamma Sigma Delta Honor Society of Agriculture (1999)
42. UNESCO/ICSU/TWAS Fellowship in the Basic Sciences, The Royal Veterinary and Agricultural University, Copenhagen, Denmark (1997)
43. International Fusarium Training Award, University of Sydney, Australia (1994)
44. University of the Philippines International Publication Awards (>10 times)
45. Eiselen Foundation Travel Award, Ulm, Germany (2003, 2006)
46. University of Hohenheim Federation Travel Award (2002, 2003)
47. University of the Philippines Faculty Development Grant for Teaching and Research (1997-1998)
48. University of the Philippines Presidential Scholarship for Graduate Studies (1996-1998)
49. Pest Management Council of the Philippines Best Undergraduate Thesis in Plant Pathology (1993)
50. Gerardo O. Ocfemia Undergraduate Scholarship (1990-1992)

### Technical Skills

molecular analyses (SSR, AFLP, RAPD, UP-PCR, RFLP, rDNA-ITS1, SSR, LAMP, 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 and conversant in Japanese

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

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

### Research Funding

1. On-the-Job Research Capacity Building for Sustainable Agriculture in Developing Countries, United Nations University, Tokyo, Japan (2012)
2. Population genetics of *Rhizoctonia solani* from rice-based cropping systems, International Foundation for Science (IFS), Sweden (2012-2014)
3. Genetic structure of populations of *Magnaporthe oryzae* from rice based cropping systems French Embassy, Manila (2012)
4. Molecular cloning of *PWT3* avirulence gene of *Magnaporthe oryzae*, Japan Society for the Promotion of Science (JSPS) (2009-2011)
5. *Fusarium* genetics and mycotoxins funded by UPLB, East West Seed Company, PhilRice, and International Foundation for Science (IFS), Sweden (2005-2008)
6. Lucid guide for the identification of Cercosporoid fungi in the Philippines, Department of Primary Industries, Queensland, Australia (2007-2008)
7. Evaluation of Transgenic PRSV Resistant Papaya for Resistance to Major Diseases funded by USAID (2006-2008)
8. *Fusarium* genetics in wheat funded by the German Academic Exchange Service (DAAD) (2000-2004)
9. Induced resistance in subtropical fruits for the prevention of decay initiated from quiescent infecting pathogens funded by USAID (1999-2000)
10. Crop residue decomposition and *Trichoderma* for disease management in rice-based cropping systems funded by USAID (1996-1998)

11. Further studies on the enhancement, enzymatic activity, and survival of *Trichoderma* spp. in soil funded by University of the Philippines Los Baños (1999-2000)
12. Philippine Rice Research Institute Research Grant for BS and MS theses (1992, 1996)

### **Editorial Responsibilities for International and National Journals**

Editor in Chief: *The Philippine Agricultural Scientist* (2015- present)  
 Reviewer: *Journal of Phytopathology* (Wiley) (2017)  
 Reviewer: *Journal of Agriculture and Food Chemistry* (American Chemical Society) (2017)  
 Reviewer: *Australasian Plant Pathology, Australasian Plant Disease Notes* (Springer) (2017)  
 Reviewer: *Rice Science* (Elsevier) 2016  
 Reviewer: *Journal of Applied Microbiology* (John Wiley & Sons, US) (2015)  
 Reviewer: *Food Biotechnology* (Taylor & Francis, UK) (2015, 2018)  
 Reviewer: *Phytopathology, Plant Disease* (American Phytopathological Society) (2015)  
 Reviewer: *Brazilian Journal of Microbiology* (2015)  
 Reviewer: *Journal of Plant Pathology* (Italian Phytopathological Society) (2014)  
 Reviewer: *Plant Pathology* (Wiley Blackwell, USA), (2014)  
 Reviewer: *Acta Agriculturae Scandinavica, Section B - Plant Soil Science* (Taylor & Francis, UK) 2014  
 Reviewer: *Phytoparasitica* (Springer, Netherlands) 2013  
 Reviewer: *ISSAAS Journal* (2013)  
 Reviewer, *European Journal of Plant Pathology* (Springer, Netherlands) (2012)  
 Reviewer, *Biocontrol Science and Technology* (Taylor & Francis, UK) (2012)  
 Reviewer, *Mycopathologia* (Springer, Netherlands) (2009)  
 Member and Reviewer, *The Plant Pathology Journal* (Korean Society of Plant Pathology) (2009-present)  
 Editor-in-Chief *Journal of Tropical Plant Pathology* (2007-2009)  
 Reviewer, *Philippine Journal of Crop Sciences*  
 Reviewer, *Philippine Journal of Science*

### **Professional activities**

2014-15 Visiting Professor, Organization of Advanced Technology and Science and Core Research Team, Kobe University, Japan  
 2016 Judge, National Genetics Quiz Contest, UPLB Genetics Society  
 2013-2015 Reviewer of applications under the TWAS Research and Advanced Training Fellowship Programme.  
 2014 External Reviewer, Doctoral Dissertation of Zahida Perveen, University of Karachi, Pakistan  
 2014 Visiting Professor, UNESP, Sao Paulo, Brazil  
 2013 Visiting Scientist, Swiss Federal Institute of Technology, (ETH), Zurich  
 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 President, Gamma Sigma Delta, Honor Society of Agriculture  
 2013 President, Mycological Society of the Philippines  
 2013 Judge, Sigma Xi, The Scientific Research Society, Student Research Showcase, N.C., USA  
 2013 Member, International Society for Plant Pathology (ICPP) Teaching Committee  
 2012 President-Elect, Gamma Sigma Delta, Honor Society of Agriculture  
 2012 Vice President, Mycological Society of the Philippines  
 2012 Chair, Search Committee for the New Director of the 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 of Priyanka Singh, Banaras Hindu University, India  
 2009 Republic Service NBN Channel 4 Interview with Civil Service Commission Chief Ricardo Saludo  
 2008 Reviewer of Book Proposal "Natural Products in Pest Management" published by CABI, UK

- 2007 Technical Reviewer, Commission on Higher Education (CHED) Proposals
- 2006 President, Philippine Phytopathological Society
- 2006 Auditor, Mycological Society of the Philippines
- 2005 Vice President, Philippine Phytopathological Society

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

- 2016 Invited Lecture, Indian Phytopathological Society, New Delhi, India
- 2015 Invited Lecture, Hanoi, Vietnam
- 2015 Invited Lecture, University of Southern Mindanao, North Cotabato
- 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, Department of Science and Technology (DOST)

### **Paper Presentations**

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

### **Administrative/Specialized Trainings/Workshops**

- Master Class in Agriculture Leadership and Management, Penang, Malaysia (2016)
- DAAD Alumni Organic Agriculture Seminar, University of Goettingen, Germany (2016)
- 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)
- Executive Forum on Food Security: Leaders in ASEAN Agriculture and Development, SEARCA, Laguna (2015)
- Dialogue on Innovative Higher Education Strategies (DIES), International Deans' Course, University of Applied Sciences, Osnabrueck, Germany (2012-2013)
- Lucid Workshop for Plant Pathologists, University of Queensland, Australia (2007)
- Cercosporoid Training Workshop, BIOTEC Pathum Tani, Thailand (2007)
- Fusarium* and Related Species Workshop, University of Sydney, Australia (1994)

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

- The World Academy of Sciences
- 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
- German Plant Medical Society
- German Society of Plant Breeding
- Phytopathological Society of Japan

### Peer-Reviewed Journals

1. Pascual, M.L.D., Lim, A.K. R. and **Cumagun, C.J.R.** (2017): Plant-parasitic nematodes associated with organic and conventional vegetable farms in Laguna Province, Philippines, Archives of Phytopathology and Plant Protection DOI: 10.1080/03235408.2017.1380940.
2. Inoue, Y., Vy, T.P.P., Yoshida, K Asano, H., Mitsuoka, C., Asuke, S., Anh, V.L., **Cumagun, C.J.R.**, Chuma, I, Terauchi, R., Kato, K., Mitchell, T., Valent, B., Farman, M., and Tosa, Y. 2017 Evolution of the wheat blast fungus through functional losses in a host specificity determinant. Science 357:80-83.
3. Hussein, T., Lopez, A.C., **Cumagun, C.J.R.** and Yli-Matilla, T. 2017 Identification and quantification of fumonisin-producing *Fusarium* species in grain and soil samples from Egypt and the Philippines. Phytopathologia Mediterranea 56: 146–153.
4. Amorio, D.J. H. and **Cumagun, C.J.R.** 2017 Pathogenicity and cytological examination of adapted and non-adapted *Bipolaris* species on resistant and susceptible cultivars of rice and corn. Mycosphere 8: 377-391.
5. Solpot, T.C., Panga, I.R., Bacongus, RDT, and **Cumagun, C.J.R.** 2016. Occurrence of *Fusarium oxysporum* f. sp. *cubense* Tropical Race 4 and other genotypes in banana in South-Central Philippines. The Philippine Agricultural Scientist 99:370-378.
6. Lopez, A L. C., **Cumagun, C.J.R.** and Didier, T. 2015. Diversity of *ACE1* genotypes of the rice blast fungus (*Magnaporthe oryzae* B.C. Couch) in the Philippines. IAMURE International Journal of Ecology and Conservation 16:80-92.
7. Salvacion, A.R., Panga, I.B., **Cumagun, C.J.R.**, 2015. Assessment of mycotoxin risk on corn in the Philippines under current and future climate change conditions. Rev. Environ. Health 30(3), 135–142
8. Wu J1, Kou Y, Bao J, Li Y, Tang M, Zhu X, Ponaya A, Xiao G, Li J, Li C, Song MY, **Cumagun C.J.R.**, Deng Q, Lu G, Jeon JS, Naqvi N, Zhou B. 2015. Comparative genomics identifies the *Magnaporthe oryzae* avirulence effector AvrPi9 that triggers Pi9-mediated blast resistance in rice. New Phytologist 206:1463-75
9. Acabal, B.D. Jr., Groenewald, J.Z., Crous, P.W. and **Cumagun, C.J.R.** 2014. First report of *Pseudocercospora jahnii* in the Philippines. Australasian Plant Disease Notes 9: 1-2.
10. **Cumagun, C.J.R.**, Anh, V.L., Phuong, Vy, T.T., Asano, H., Chuma, I. and Tosa Y. 2014 Identification a hidden resistance gene in tetraploid wheat using laboratory strains of *Pyricularia oryzae* produced by backcrosses. Phytopathology 104:634-640.
11. Yli-Mattila, T., Rämö, S., Hietaniemi, V., Hussien, T., Carlobos-Lopez, A.L., and **Cumagun, C.J.R.** 2013. Molecular quantification and genetic diversity of toxigenic *Fusarium* species in northern Europe as compared to those in southern Europe and Asia. Microorganisms 1: 162-174.
12. Cruz, A., Marin A., Gonzalez-Jaen, M.T., Aguilar, K.G.T., and **Cumagun, C.J.R.** 2013. Phylogenetic analysis, fumonisin production and pathogenicity of *Fusarium fujikuroi* strains isolated from rice in the Philippines. Journal of the Science of Food and Agriculture 93: 3032-3039.
13. Relevante, C.A. and **Cumagun, C.J.R.** 2013. Control of *Fusarium* wilt in bittergourd and bottlegourd by biofumigation using mustard var. Monteverde. Archives of Phytopathology and Plant Protection 46: 747-753.
14. Luzaran, R.T., de la Cueva, F., **Cumagun, C.J.R.**, Velasco, L.R.I. and Dalisay, T.U. 2012. Variability of sugarcane smut pathogen, *Ustilago scitaminea* Sydow in the Philippines. Philippine Journal of Crop Science 37: 38-51.
15. **Cumagun, C.J.R.** 2012. Managing plant diseases and promoting sustainability and productivity with *Trichoderma*. Journal of Agricultural Science and Technology 14:699-714.
16. **Cumagun, C.J.R.**, Vargas, M. L.DV., Alviar, A.N. 2011. Evaluation of greenhouse and field aggressiveness of *Fusarium verticillioides* from corn in Laguna province, Philippines. African Journal of Agricultural Research 6: 6586-6591.

17. Magculia, N, **Cumagun**, C.J.R. 2011. Genetic diversity and PCR based identification of fumonisin producing isolates of *Fusarium verticillioides* in corn. *Tropical Plant Pathology* 36:225-232.
18. **Cumagun**, C.J.R., Arcillas, E. and Gergon E. 2011. UP-PCR analysis of the seed-borne pathogen *Fusarium fujikuroi* causing bakanae disease of rice. *International Journal of Agriculture and Biology* 13: 1029–1032.
19. Mahamuda Begum, M. and **Cumagun**, C.J.R. 2010. First record of *Cercospora basellae-albae* from the Philippines. *Australasian Plant Disease Notes* 5:115-116
20. **Cumagun**, C.J.R., Aguirre, J.A., Relevante, C.A., and Balatero, C.H. 2010. Pathogenicity and virulence of *Fusarium oxysporum* Schl. in bottle gourd and bitter gourd. *Plant Protection Science* 46:51-58.
21. Oclarit, E.L. and **Cumagun**, C.J.R. 2009. Evaluation of efficacy of *Paecilomyces lilacinus* as biological control agent of *Meloidogyne incognita* attacking tomato. *Journal of Plant Protection Research* 49:459-462.
22. **Cumagun**, C.J.R., Ramos, J.S., Dimaano, A.O., Munaut, F. and Van Hove, F. 2009. Genetic characteristics of *Fusarium verticillioides* from corn in the Philippines. *Journal of General Plant Pathology* 75: 405-412.
23. Crous, P.W., Braun, U., Wingfield, M.J., Wood, A.R., Shin, H.D., Summerell, B.A. Alfenas, A.C., **Cumagun**, C.J.R. and Groenewald, J.Z. 2009. Phylogeny and taxonomy of obscure genera of microfungi. *Persoonia Molecular Phylogeny and Evolution of Fungi* 22:139-161.
24. **Cumagun**, C.J.R., Manalo, J.O., Salcedo-Bacalangco, N.A., and Ilag, L.L. 2009. Cellulose decomposing ability of *Trichoderma* in relation to their saprophytic survival. *Archives of Phytopathology and Plant Protection* 42: 698-704.
25. Luzaran, R.T. and **Cumagun**, C.J.R. 2008. Influence of pineapple disease control on the germination of sugarcane. *Journal of Tropical Plant Pathology* 44:49-52.
26. Mahamuda Begum, M., Shivas, R.G. and **Cumagun**, C.J.R. 2009. First record of *Periconiella lygodii* occurring on *Lygodium japonicum* in the Philippines. *Australasian Plant Disease Notes* 4: 17-18.
27. Miedaner, T., **Cumagun**, C.J.R. and Sukumar C. 2008. Population genetics of three important head blight pathogens *Fusarium graminearum*, *F. pseudograminearum*, and *F. culmorum*. *Journal of Phytopathology* 156: 129-139.
28. **Cumagun**, C.J.R., Padilla, C.L., Tolentino, M.S. and Hautea, D.M. 2008. Comparison of infection caused by *Pythium debaryanum*, *Phytophthora palmivora* and *Erwinia caricae* on transgenic and non-transgenic papaya ringspot virus resistant plants. *Journal of Plant Protection Research* 48: 137-145.
29. Ponaya, A.B. and **Cumagun**, C.J.R. 2008. First record of *Passalora bougainvilleae* causing leaf spot of bougainvillea in the Philippines. *Australasian Plant Disease Notes* 3:1-2.
30. **Cumagun**, C.J.R., Oribiana, Z.C., Tolentino, M.S., Relevante, C.A. and Balatero, C. H. 2008. Vegetative compatibility among *Fusarium oxysporum* isolates from bitter gourd and bottle gourd in the Philippines. *Journal of Plant Protection Research* 48: 283-293.
31. **Cumagun** C.J.R. and Padilla, C.L. 2007. First record of *Asperisporium caricae* causing black spot of papaya in the Philippines. *Australasian Plant Disease Notes* 2:89-90.
32. **Cumagun**, C.J.R. 2007. Female fertility and mating type distribution in a Philippine population of *Fusarium verticillioides*. *Journal of Applied Genetics* 48(2):123-126.
33. **Cumagun**, C.J.R., Parzies, H.K., and Miedaner, T. 2007. Genetic variation and segregation of DNA polymorphisms in *Gibberella zeae* detected with AFLP and RAPD markers. *Asian Journal of Plant Sciences* 6:1174-1181.
34. **Cumagun**, C.J.R. 2007. Population genetics of Plant Pathogenic Fungi with Emphasis on *Fusarium* species. *The Philippine Agricultural Scientist* 90:244-256.
35. **Cumagun**, C.J.R. 2006. Enhancement, enzymatic activity and survival of *Trichoderma* spp. in soil. *Journal of Tropical Plant Pathology* 42: 1-9.
36. Pinili, M.S. and **Cumagun** C.J.R. 2006. Biological control of the banana burrowing nematode, *Radopholus similis* with selected nematophagous fungi. *Journal of Tropical Plant Pathology* 42: 36-42.
37. **Cumagun**, C.J.R., Parzies, H.K., and Miedaner, T. 2006. Molecular diversity within lineage 7 isolates of *Fusarium graminearum* from an international collection. *The Philippine Agricultural Scientist* 89:363-367.
38. **Cumagun**, C.J.R. and A.T. Vitor. 2005. Boric acid controls *Colletotrichum gloeosporioides* in mango. *Journal of Tropical Plant Pathology* 41: 77-80.

39. **Cumagun, C.J.R.**, Bowden, R.L., Jurgenson, J.J., Leslie, J.F. and Miedaner, T. 2004. Genetic mapping of pathogenicity and aggressiveness of *Gibberella zae* (*Fusarium graminearum*) toward wheat. *Phytopathology* 94:520-526.
40. **Cumagun, C.J.R.** and Miedaner, T. 2004. Segregation for aggressiveness and deoxynivalenol production of a population of *Gibberella zae* (*Fusarium graminearum*). *European Journal of Plant Pathology* 110:789-799.
41. **Cumagun, C. J. R.**, Rabenstein, F. and Miedaner T. 2004. Covariation between fungal colonization and deoxynivalenol content of *Gibberella zae* (*Fusarium graminearum*) in wheat. *Plant Pathology* 53:446-453.
42. **Cumagun, C. J. R.** and T. Miedaner. 2003. Field and greenhouse aggressiveness of *Gibberella zae* (*Fusarium graminearum*) in wheat. *Journal of Plant Diseases and Protection* 110: 554-559.
43. **Cumagun, C.J.R.**, Bowden, R.L. and Miedaner, T. 2002. Segregation of aggressiveness in a crossing population of *Fusarium graminearum*. *Journal of Applied Genetics* 43:39-44.
44. **Cumagun, C.J.R.**, Hockenull, J. and Lubeck, M. 2000. Characterization of *Trichoderma* isolates from Philippines rice fields by UP-PCR and rDNA-ITS1 analysis: Identification of UP-PCR markers. *Journal of Phytopathology* 143: 109-115.
45. **Cumagun, C.J.R.** and Ilag, L.L. 1998. Enhancing the efficacy of *Trichoderma harzianum* Rifai by chitin amendment against sheath blight of rice. *Philippine Phytopathology* 33: 72-86.
46. **Cumagun, C.J.R.** and Ilag, L.L. 1998. Parasitism of sclerotial bodies of *Rhizoctonia solani* Kuhn by *Trichoderma harzianum* Rifai and *Penicillium oxalicum* Currie and Thom. *Philippine Phytopathology* 33: 17-26.
47. **Cumagun, C.J.R.** and Lapis, D.B. 1993. Note: Practical approach in mass production of *Trichoderma* spp. as a means of biological control against sheath blight of rice. *Philippine Agriculturist* 76: 251-257.

#### Conference Proceedings

1. Lapis, D.B. and **Cumagun, C.J. R.** 1994. Improved use of *Trichoderma* as a means of biological control against sheath blight of rice: An Exploratory study. In: M. F. Rifai et al. (eds). *Biology and Control of Crop Pathogens*. SEAMEO BIOTROP, Bogor, Indonesia. pp.169-177.
2. **Cumagun, C. J. R.**, Padilla, C. L., Aguilar, K. I., Van Hove, F., González-Jaén, M.T. and Marin P. 2007. Aggressiveness, mating type assessment and fumonisin production of *Fusarium verticillioides* and *F. fujikuroi* isolates in the Philippines. *Proceedings of the Third Asian Conference on Plant Pathology*, Yogyakarta, Indonesia. Faculty of Gadjah Mada University. pp. 74-75.

#### Books

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