

DOCTORADO EN CIENCIAS AGROALIMENTARIAS

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Publicaciones (2016- presente)

1. Valenzuela, M., González, M., Velásquez, A., Dorta, F., Montenegro, I., **Besoain, X.**, Salvá, F., Jaén-Luchoro, D., Moore, E.B., Seeger, M. 2021. Analyses of Virulence Genes of *Clavibacter michiganensis* subsp. *michiganensis* Strains Reveal Heterogeneity and Deletions That Correlate with Pathogenicity. *Microorganisms*, 9: 7. Q2.
2. Díaz, K., Werner, E., **Besoain, X.**, Flores, S., Donoso, V., Said, B., Vega, E., Montenegro, I., Madrid, A. 2021. In Vitro Antifungal Activity And Toxicity Of Dihydrocarvone-Hybrid Derivatives Against *Monilinia fructicola*. *Antibiotics*, 10: 7. Q2.
3. Olivera, M., Delgado, N., Cádiz, F., Riquelme, N., Montenegro, I., Seeger, M., Bravo, G., Barros, W., Pedreschi, R., **Besoain, X.** 2021. Diffusible compounds produced by *Hanseniaspora osmophila* and *Gluconobacter cerinus* help to control the causal agents of gray rot and summer bunch rot of table grapes. Q2.
4. Delgado, N., Olivera, M., Cádiz, F., Bravo, G., Montenegro, I., Madrid, A., Fuentealba, C., Pedreschi, R., Salgado, E., **Besoain, X.** 2021. Volatile Organic Compounds (VOCs) produced by *Gluconobacter cerinus* and *Hanseniaspora osmophila* displaying control effect against table grape-rot pathogens. *Antibiotics-Basel*, 10: 663. Q2.
5. Larach, A., Torres, C., Riquelme, N., Valenzuela, M., Salgado, E., Seeger, M., **Besoain, X.** 2020. Yield loss estimation and pathogen identification from *Botryosphaeria dieback* in vineyards of Central Chile over two growing seasons. *Phytopathologia Mediterranea*, 59: 537-548. Q2.
6. Vásquez, I., **Besoain, X.**, Vega-Celedón, P., Valenzuela, M., Seeger, M. 2020. First Report of Bacterial Wilt Caused by *Ralstonia solanacearum* Phylotype IIB Sequevar 1 Affecting Tomato in Different Regions of Chile. *Plant Disease*, 104: 2023. Q1.
7. Jiménez, I., Cádiz, F., Aravena, R., Larach, A., **Besoain, X.**, Ezcurra, E., Rolshausen, P. 2020. First Report of *Diaporthe cynaroidis* and *D. australifricana* Associated with Walnut Branch Canker in Chile. *Plant Disease*, 104: 10. Q1.
8. Tapia, L., Larach, A., Riquelme, N., Guajardo, J., **Besoain, X.** 2020. First Report of *Neofusicoccum luteum* Causing Stem-End Rot Disease on Avocado Fruits in Chile. *Plant Disease*, 104: 2027. Q1.
9. Werner, E., Montenegro, I., Said, B., Godoy-Martínez, P., **Besoain, X.**, Caro, N., Madrid, A. 2020. Synthesis and Anti-Saprolegnia Activity of New 2',4'-Dihydroxydihydrochalcone Derivatives. *Antibiotics*, 9: 317. Q2.
10. Flores, O., Retamales, J., Núñez, M., León, M., Salinas, P., **Besoain, X.**, Yáñez, C., Bastías, R. 2020. Characterization of Bacteriophages against *Pseudomonas syringae* pv. *actinidiae* with Potential Use as Natural Antimicrobials in Kiwifruit Plants. *Microorganisms*, 8: 974. Q2.

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11. López, G., Mellado, M., Werner, E., Said, B., Godoy-Marínez, P., Caro, N., **Besoain, X.**, Montenegro, I., Madrid, A. 2020. Sonochemical Synthesis of 2'-Hydroxy-Chalcone Derivatives with Potential Anti-Oomycete Activity. *Antibiotics*, 9: 576. Q2.
12. Méndez, V., Valenzuela, M., Salvá, F., Jaén-Luchordo, D., **Besoain, X.**, Moore, E.R.B., Seeger, M. 2020. Comparative Genomics of Pathogenic *Clavibacter michiganensis* subsp. *michiganensis* Strains from Chile Reveals Potential Virulence Features for Tomato Plants. *Microorganisms*, 8: 1679. Q2.
13. Montenegro, I., Said, B., Godoy-Martínez, P., **Besoain, X.**, Parra, C., Día, K., Madrid, A. 2020. Antifungal Activity of Essential Oil and Main Components from *Mentha pulegium* Growing Wild on the Chilean Central Coast. *Agronomy*, 10: 254. Q1.
14. Alvarado, L., Saa, S., Cuneo, I.F., Pedreschi, R., Morales, J., Larach, A., Barros, W., **Besoain, X.** 2020. A comparison of immediate and short-term defensive responses to *Phytophthora* species infection in both susceptible and resistant walnut rootstocks. *Plant Disease*, 104: 921-929. Q1.
15. Morales JA, **Besoain X**, Cuneo I, Saa S. 2019. Impact of nitrogen fertilization on *Phytophthora cinnamomi* root-related damage in *Juglans regia* samplings. *HortScience* 54: 2188-2194. Q2.
16. Montenegro I, Mellado M, Russo A, Said B, **Besoain X**, Godoy P, Werner E, Caro N, Madrid A. 2019. Carveoylphenols and Their Antifungal Potential against Pathogenic Yeasts. *Antibiotics* 8: 185. Q2.
17. **Besoain X**, Guajardo J, Larach A, Riquelme N, Galvez E, Tapia L, Alvarado LE, Saratscheff T, Celis-Díez JL. 2019. First Report of *Diplodia seriata* causing gummy canker in *Araucaria araucana* wild populations in south-central Chile. *Plant Disease* 103: 2684. Q1.
18. Guajardo J, Riquelme N, Browne G, Youlton C, Castro M, **Besoain X**. 2019. Characterization of Oomycete species associated with root and crown rot of English walnut in Chile. *Plant Disease* 103: 691-696. Q1.
19. Valenzuela M, Méndez V, Montenegro I, **Besoain X**, Seeger M. 2019. Streptomycin resistance in *Clavibacter michiganensis* subsp. *michiganensis* strains from Chile is related to an *rpsL* gene mutation. *Plant Pathology* 68: 426-433. Q1.
20. Flores O, Prince C, Nunez M, Vallejos A, Mardones C, Yañez C, **Besoain X**, Bastías R. 2019. Genetic and Phenotypic Characterization of Indole-Producing Isolates of *Pseudomonas syringae* pv. *actinidiae* Obtained from Chilean Kiwifruit Orchards. *Frontiers in Microbiology* 9:1-12. Q1.
21. Montenegro I, Madrid A, Cuellar M, Seeger M, Alfaro JF, **Besoain X**, Martínez JP, Ramirez I, Olgún Y, Valenzuela M. 2018. Biopesticide activity from drimanic compounds to control tomato pathogens". *Molecules* 23:2053. Q2.

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22. Valenzuela M, **Besoain X**, Durand K, Cesbron S, Fuentes S, Claverías F, Jacques MA, Seeger M. 2018. *Clavibacter michiganensis* subsp. *michiganensis* strains from central Chile exhibit low genetic diversity and sequence types match strains in other parts of the world". Plant Pathology 67: 1944-1954. Q1.
23. Guajardo J, Riquelme N, Tapia L, Larach A, Torres C, Camps R, **Besoain X**. 2018. First report of *Lasioidiplodia theobromae* causing Bot Gummosis in Citrus limón in Chile. Plant Disease 102: 818-819. Q1.
24. **Besoain X**, Guajardo J, Camps R. 2017. First Report of *Diplodia mutila* Causing Gummy Canker in *Araucaria araucana* in Chile. Plant Disease 101: 1328. Q1.
25. Guajardo J, Saa S, Camps R, **Besoain X**. 2017. Outbreak of crown and root rot of walnut caused by *Phytophthora cinnamomi* in Chile. Plant Disease 101, 636. Q1.
26. Vidal AK, Camps R, **Besoain X**. 2016. Necrotic Streaking of Asiatic Lilies caused by *Plantago asiatica* mosaic virus in Chile. Plant Disease 100: 1799. Q1.
27. Camps R, Mansur L, De La Cuadra C, **Besoain X**. 2016. First Report of Turnip mosaic virus (TuMV) Infecting *Leucocoryne purpurea* (Amaryllidaceae) in Chile. Plant Disease 100: 2341. Q1.
28. Torres C, Camps R, Aguirre R, **Besoain X**. 2016. First report of *Diaporthe rudis* in Chile Causing Stem-End Rot on "Hass" Avocado Fruit Imported from California. Plant Disease 100: 1951. Q1.

Proyectos con financiamiento externo (2015-presente)

1. Effects of tissue age and endophytic microbiome of *Botryosphaeria dieback* caused by *Diplodia seriata* in cv. Cabernet Sauvignon in Central Chile, and biocontrol studies in plant
Financiamiento: FONDECYT regular
Rol: Directora
Duración: 2021-2024
Año adjudicación 2021
2. Nuevo Servicio De Detección De Virus Y Viroides Para Determinar La Sanidad De Plantas De Cítricos En Chile.
Financiamiento: Proyecto FIA PYT-2020-0218. Institución Asociada, Comité de Cítricos de Chile, ASOEX.
Rol: Directora
Duración: 2020-2024
Año adjudicación: 2020



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3. Consorcio biológico PUCV-VBL para el control de hongos en postcosecha de uvas para exportación.
Financiamiento: I Concurso FONDEF IDeA en dos etapas, Temático en Inocuidad y Calidad Alimentaria-CONICYT, ID17AL0028.
Rol: Directora
Duración: 2017-2019
Año adjudicación: 2017