

DOCTORADO EN CIENCIAS AGROALIMENTARIAS

**Andrés Córdova Suarez**

**Publicaciones (2013-presente)**

1. Córdova A, J Saavedra, V Mondaca, J Vidal & C Astudillo-Castro (2019) Quality assessment and multivariate calibration of 5-hydroxymethylfurfural during a concentration process for clarified apple juice. *Food Control*, 95, 106-114.
2. Henríquez C, V Loewe, J Saavedra, A Córdova & M Lutz (2018) Effect of the type of packaging on the oxidative stability of pine nuts (*Pinus pinea* L). grown in Chile. *CYTA Journal of Food*, 16, 255-262.
3. Saavedra J, A Córdova, R Navarro, P Díaz-Calderón, C Astudillo-Castro, L Toledo, J Enrione & L Gálvez (2017) Industrial avocado waste: Functional compounds preservation by convective drying process. *Journal of Food Engineering*, 198, 81-90.
4. Córdova A, C Astudillo, L Santibañez, A Cassano, R Ruby & A Illanes (2017) Purification of galacto-oligosaccharides (GOS) by three-stage serial nanofiltration units under critical transmembrane pressure conditions. *Chemical Engineering Research and Design*, 117, 488-499.
5. Vera C, A Córdova, C Aburto, C Guerrero, S Suárez & A Illanes (2016) Synthesis and Purification of galacto-oligosaccharides: state of art. *World Journal of Microbiology and Biotechnology*, 32, 197.
6. Córdova A, C Astudillo, C Vera, C Guerrero & A Illanes (2016) Performance of an ultrafiltration membrane bioreactor (UF-MBR) as a processing strategy for the synthesis of galacto-oligosaccharides at high substrate concentrations. *Journal of Biotechnology*, 223, 26-35.
7. Córdova A, C Astudillo, C Vera, C Guerrero & A Illanes (2016) Assessment of the fouling mechanisms of an ultrafiltration membrane bioreactor during synthesis of galacto-oligosaccharides: effect of the operational variables. *Desalination*, 393, 76-89
8. Córdova A, C Astudillo, L Giorno, C Guerrero, A Illanes & A Cassano (2016) Nanofiltration potential for the purification of highly concentrated enzymatically produced oligosaccharides. *Food and Bioproducts Processing*, 98, 50-61.

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9. Alister C, M Araya, J Morandé, C Volosky, J Saavedra, A Córdova & M Kogan (2014) Effects of wine grape cultivar, application conditions and the winemaking process on the dissipation of six pesticides. *Ciencia e Investigación Agraria*, 41, 375-386.
10. Henríquez C, A Córdova, S Almonacid & J Saavedra (2014) Kinetic modeling of phenolic compound degradation during drum-drying of apple peel by-products. *Journal of Food Engineering*, 143, 146-153.
11. Saavedra J, A Córdova, L Gálvez, C Quezada & R Navarro (2013) Principal Component Analysis as an exploration tool for kinetic modeling of food quality: A case study of a dried apple cluster snack. *Journal of Food Engineering*, 119, 229-235.
12. Henríquez C, A Córdova, M Lutz & J Saavedra (2013) Storage stability test of apple peel powder using two packaging materials: High-density polyethylene and metalized films of high barrier. *Industrial Crops and Products*, 45, 121-127.

### Proyectos con financiamiento externo (2013-presente)

1. Ultrafiltration membrane bioreactors (UF-MBR) assisted by ultrasound as strategy to improve the quality of Apple juice concentrates and upgrade pomaces: process modeling under a multivariate approach.  
Financiamiento: FONDECYT Postdoctorado N° 3170133  
Rol: Investigador Responsable  
Duración: 2017-2020  
Año adjudicación: 2016  
Tipo de investigación: Aplicada
2. Plataforma online para el diseño de recetas para cervezas artesanales.  
Financiamiento: Fondef VIU N° VIU15P0036  
Rol: Personal Técnico y de Apoyo  
Duración: 2016-2017  
Año adjudicación: 2016  
Tipo de investigación: Aplicada
3. Determinación de parámetros de operación para la extensión de vida útil de membranas poliméricas en la Nanofiltración del suero de leche.  
Financiamiento: Voucher de Innovación en PYMES CORFO N° 15VIP 43848  
Rol: Investigador Responsable  
Duración: 2015-2016  
Año adjudicación: 2015

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