

DOCTORADO EN CIENCIAS AGROALIMENTARIAS

Andrés Córdova Suárez

Publicaciones (2015- presente)

1. **Córdova A**, Astudillo-Castro C, Ruby-Figueroa R, Valencia P, Soto C. 2020. Recent advances and perspectives of ultrasound assisted membrane food processing. *Food Research International* 133: 109163. Q1.
2. Vera C, Guerrero C, Aburto C, **Córdova A**, Illanes A. 2020. Conventional and non-conventional applications of β -galactosidasas. *Biochimia et Biophysica Acta: Proteins and Proteomics*: 1868: 140271. Q2.
3. Santibañez L, **Córdova A**, Astudillo C, Illanes A. 2019. Effect of the lactose hydrolysis on galacto-oligosaccharides mixtures subjected to nanofiltration: a detailed fractionation analysis. *Separation and Purification Technology*, 222: 342-353. Q1.
4. **Córdova A**, Saavedra J, Mondaca V, Vidal J, Astudillo-Castro C. 2019. Quality assessment and multivariate calibration of 5-HMF during a concentration process for clarified apple juice. *Food Control* 95: 106-111. Q1.
5. Henriquez M, Loewe V, Saavedra J, **Córdova A**, Lutz M. 2018. Effect of the type of packaging on the oxidative stability of pine nuts grown in Chile. *CyTA Journal of Food* 16: 255-262. Q3.
6. Saavedra J, **Córdova A**, Navarro R, Díaz-Calderón P, Astudillo-Castro C, Toledo L, Enrione J, Gálvez L. 2017. Industrial avocado waste: Functional compounds preservation by convective drying process. *Journal of Food Engineering* 198:81-90. Q1.
7. **Córdova A**, Astudillo, C, Santibañez C, Cassano A, Ruby R, Illanes A. 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. Q2.
8. Vera C, **Córdova A**, Aburto C, Guerrero C, Suárez S, Illanes A. 2016. Synthesis and Purification of galacto-oligosaccharides: state of art. *World Journal of Microbiology and Biotechnology* 32:197. Q3.
9. **Córdova A**, Astudillo C, Vera C, Guerrero C, Illanes A. 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. Q2.
10. **Córdova A**, Astudillo C, Vera C, Guerrero C, Illanes A. 2016. Assessment of the fouling mechanisms of an ultrafiltration membrane bioreactor during synthesis of galacto-oligosaccharides: effect of the operational variables. *Desalination* 393: 79-89. Q1.

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11. **Córdova A**, Astudillo C, Giorno L, Guerrero C, Illanes A, Cassano A. 2016. Nanofiltration potential for the purification of highly concentrated enzymatically produced oligosaccharides. Food and Bioproducts Processing 98 :50-61. Q2.

Proyectos con financiamiento externo (2015-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 3170133
Rol: Investigador responsable
Duración: 2017-2020
Año adjudicación: 2017
2. Diseño, construcción y validación de un reactor prototipo UV LED a escala laboratorio para inactivación microbiana y estabilización de vinos.
Financiamiento: ID18I10146 FONDEF
Rol: Investigador postdoc
Duración: 2019-2021
Año adjudicación: 2019
3. Voucher de Innovación en PYMES : "Determinación de parámetros de operación para la extensión de vida útil de membranas poliméricas en la Nanofiltración del suero de leche, Agroindustrial Codigua SPA.
Financiamiento: CORFO 15VIP 43848
Rol: Investigador responsable
Duración: 2015-2016
Año adjudicación: 2015