

DOCTORADO EN CIENCIAS AGROALIMENTARIAS

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Publicaciones (2019 – presente)

1. Heller-Fuenzalida, F., Cuneo, I., **Kuhn, N.**, Peña-Neira, A., Cáceres-Mella, A. 2023. Rootstock effect influences the phenolic and sensory characteristics of Syrah grapes and wines in a Mediterranean climate. *Agronomy*, 13(10), 2530. Q1.
2. Acevedo, O., Ponce, C., Arellano, M., Multari, S., Carrera, E., Donoso, J.M., Martens, S., **Kuhn, N.**, Meisel, L.A. 2023. ABA Biosynthesis- and Signaling-Related Gene Expression Differences between Sweet Cherry Fruits Suggest Attenuation of ABA Pathway in Bicolored Cultivars. *Plants*, 12: 2493. Q1.
3. Arancibia-Guerra, C., Núñez-Lillo, G., Cáceres-Mella, A., Carrera, E., Meneses, C., **Kuhn, N.**, Pedreschi, R. 2022. Color desynchronization with softening of ‘Hass’ avocado: Targeted pigment, hormone and gene expression analysis. *Postharvest Biology and Technology*, 194: 112067. Q1.
4. Serrano, A., **Kuhn, N.**, Restovic, F., Meyer-Regueiro, C., Madariaga, M., Arce-Johnson, P. 2022. The glucose-related decrease in polar auxin transport during ripening and its possible role in grapevine berry coloring. *Journal of Plant Growth Regulation*, 41: 1-11. Q1.
5. Time, A., Ponce, C., **Kuhn, N.**, Arellano, M., Sagredo, B., Donoso, J. M., Meisel, L.A. 2021. Canopy spraying of abscisic acid to improve fruit quality of different sweet cherry cultivars. *Agronomy*, 11(10): 1947. Q1.
6. **Kuhn, N.**, Ponce, C., Arellano, M., Time A., Multari, S., Martens, S., Carrera, E., Sagredo, B., Donoso, J., Meisel, L. 2021. ABA influences color initiation timing in *P. avium* L. fruits by sequentially modulating the transcript levels of ABA and anthocyanin-related genes. *Tree Genetics & Genomes*, 17: 20. Q1.
7. Godoy, F., **Kuhn, N.**, Muñoz, M., Marchandon, G., Gouthu, S., Deluc, L., Delrot, S., Lauvergeat, V., Arce, P. 2021. The role of auxin during early berry development in grapevine as revealed by transcript profiling from pollination to fruit set. *Horticulture Research*, 8: 140. Q1.
8. **Kuhn, N.**, Maldonado, J., Ponce, C., Arellano, M., Time, A., Multari, S., Martens, S., Carrera, E., Donoso, J., Sagredo, B., Meisel, L. 2021. RNAseq reveals different transcriptomic responses to GA3 in early and midseason varieties before ripening initiation in sweet cherry fruits. *Scientific Reports*, 11: 13075. Q2.
9. Ponce, C., **Kuhn, N.**, Arellano, M., Time, A., Multari, S., Martens, S., Sagredo, B., Donoso, J., Meisel, L.A. 2021. Differential Phenolic Compounds and Hormone Accumulation Patterns between Early- and Mid-Maturing Sweet Cherry (*Prunus avium* L.) Cultivars during Fruit Development and Ripening. *Journal of Agricultural and Food Chemistry*. Q1.

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10. **Kuhn, N.,** Ponce, C., Arellano, M., Tlme, A., Donoso, J., Sagredo, B., Meisel, L. 2020. Gibberellic Acid Modifies the Transcript Abundance of ABA Pathway Orthologs and Modulates Sweet Cherry (*Prunus avium*) Fruit Ripening in Early- and Mid-Season Varieties. *Plants – Basel*, 9: 1796. Q1.

Proyectos con financiamiento externo últimos 5 años (adjudicado y/o ejecutado)

1. Participation of the auxin-gibberellin negative regulatory module during the fruit ripening initiation in the non-climacteric sweet cherry: Towards a seed-fruit interaction multiscale model
Financiamiento: Fondecyt Iniciación N°11221186
Rol: Investigador principal
Duración: 2022-2025
Año adjudicación: 2021
2. Genetic factors underlying the role of gibberellin in sweet cherry (*Prunus avium*) fruit maturity delay.
Financiamiento: Fondecyt Postdoctorado N°3180138
Rol: Investigador principal
Duración: 2018-2021
Año adjudicación: 2018
3. Molecular genetic and epigenomic analyses of sweet cherry fruit ripening: Exploring the modulatory role of the plant growth regulator abscisic acid in this process.
Financiamiento: Fondecyt Regular N° 1171016
Rol: Co-Investigador
Duración: 2017-2021
Año de adjudicación: 2017