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I. PUBLICACIONES (2015 – presente)

Publicaciones en revistas indexadas (ISI)

1. Rojas, J., Viacava, C., Ubeda, C., Peña-Neira, Á., Cuneo, I. F., **Kuhn, N.**, & Cáceres-Mella, A. (2024). Chemical Characterization of Sauvignon Blanc Wines from Three Cold-Climate-Growing Areas of Chile. ***Foods***, 13(13),. <https://doi.org/10.3390/foods13131991>
2. **Kuhn, N.**, Arellano, M., Ponce, C., Hodar, C., Correa, F., Multari, S., Martens, S., Carrera, E., Donoso, J. M., & Meisel, L. A. (2024). RNA-Seq and WGBS Analyses During Fruit Ripening and in Response to ABA in Sweet Cherry (*Prunus avium*) Reveal Genetic and Epigenetic Modulation of Auxin and Cytokinin Genes. ***Journal Of Plant Growth Regulation***. <https://doi.org/10.1007/s00344-024-11340-9>
3. Heller-Fuenzalida F, Cuneo IF, **Kuhn N**, Peña-Neira Á, 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. <https://doi.org/10.3390/agronomy13102530>
4. Acevedo O, Ponce C, Arellano M, Multari S, Carrera E, Donoso JM, Martens S, **Kuhn N**, Meisel LA (2023). ABA Biosynthesis- and Signaling-Related Gene Expression Differences between Sweet Cherry Fruits Suggest Attenuation of ABA Pathway in Bicolored Cultivars. ***Plants***; 12(13):2493. <https://doi.org/10.3390/plants12132493>
5. 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***; doi: 10.1007/s00344-021-10553-6

6. **Kuhn N**, Ponce C, Arellano M, Time A, Multari S, Martens S, Carrera E, Sagredo B, Donoso JM, Meisel LA (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 and Genomes* 17(2); doi: 10.1007/s11295-021-01502-1
7. Time A, Ponce C, **Kuhn N**, Arellano M, Sagredo B, Donoso JM, Meisel LA (2021). Canopy spraying of abscisic acid to improve fruit quality of different sweet cherry cultivars. *Agronomy* 11(10); doi: 10.3390/agronomy11101947
8. Ponce C, **Kuhn N**, Arellano M, Time A, Multari S, Martens S, Carrera E, Sagredo B, Donoso JM, Meisel LA (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*; doi: 10.1021/acs.jafc.1c01140
9. **Kuhn N**, Maldonado J, Ponce C, Arellano M, Time A, Multari S, Martens S, Carrera E, Donoso JM, Sagredo B, Meisel LA (2021). RNAseq reveals different transcriptomic responses to GA₃ in early and midseason varieties before ripening initiation in sweet cherry fruits. *Scientific Reports* 11(1); doi:10.1038/s41598-021-92080-8
10. Godoy F, **Kuhn N**, Muñoz M, Marchandon G, Gouthu S, Deluc L, Delrot S, Lauvergeat V, Arce-Johnson 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(1); doi: 10.1038/s41438-021-00568-1
11. **Kuhn N**, Ponce C, Arellano M, Time A, Sagredo B, Donoso JM, Meisel LA. (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* 9(12); doi: 10.3390/plants9121796
12. **Kuhn N**, Serrano A, Abello C, Arce A, Espinoza C, Gouthu S, Deluc L, ArceJohnson P (2016) Regulation of polar auxin transport in grapevine

fruitlets (*Vitis vinifera* L.) and the proposed role of auxin homeostasis during fruit abscission. ***BMC Plant Biology*** 16; doi: 10.1186/s12870-016-0914-1

13. Figueroa R, Pacheco F, Echaiz C, Cordovez G, **Kuhn N** (2016) Effects of preemergence herbicides on bell pepper, crop injury and weed management in irrigated Chilean fields. ***Weed Technology*** 30(2); doi: 10.1614/WT-D-15-00124.1

II. EXPERIENCIA EN PROYECTOS DE INVESTIGACION (2015 – presente)

2022 – 2025 **Investigador principal. Proyecto Fondecyt de Iniciación 11221186.** "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"

2018 – 2021 **Investigador principal. Proyecto Fondecyt de Postdoctorado 3180138.** "Genetic factors underlying the role of gibberellin in sweet cherry fruit maturity delay".

2017 – 2021 **Co-Investigador. Proyecto Fondecyt 1171016.** Molecular genetic and epigenomic analyses of sweet cherry fruit ripening: Exploring the modulatory role of the plant growth regulator abscisic acid in this process.