

DOCTORADO EN CIENCIAS AGROALIMENTARIAS

Nathalie Kuhn Weber

Publicaciones (2017- 2021)

1. Time, A., Ponce, C., **Kuhn, N.**, Arellano, M., Sagredo, B., Donoso, J., Meisel, L. 2021. Canopy spraying of abscisic acid to improve fruit quality of different sweet cherry cultivars. *Agronomy*, 11, 1947.
2. **Kuhn, N.**, Ponce, C., Arellano, M., Time A., Multari, S., Martens, S., Carrera, E., Sagredo, B., Donoso, J.M., Meisel, L.A. 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.
3. 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, 140. Q1.
4. **Kuhn, N.**, Maldonado, J., Ponce, C., Arellano, M., Time, A., Multari, S., Martens, S., Carrera, E., Donoso, J.M., Sagredo, B., Meisel, L.A. 2021. RNAseq reveals different transcriptomic responses to GA3 in early and midseason varieties before ripening initiation in sweet cherry fruits. *Scientific Reports*, 11, 13075. Q1.
5. 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.
6. **Kuhn, N.**, Ponce, C., Arellano, M., Time, A., Donoso, J. M., Sagredo, B., Meisel, L.A. 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. 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
2. Molecular genetic and epigenomic analyses of sweet cherry fruit ripening: Exploring the modulatory role of the plant growth regulator abscisic acid in this process.

FACULTAD DE
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Financiamiento: Fondecyt Regular N° 1171016

Rol: Co-Investigador

Duración: 2017-2021

Año de adjudicación: 2017