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SUMMARY

I am a graduate student (Ph.D level) on Genetics and Breeding at Universidade Federal de Viçosa (UFV) and a collaborator researcher at the UFV Sugarcane Genetic Breeding Program. My research interests include quantitative genetics; plant breeding; biometrics; genomic prediction and statistical learning/machine learning.

EDUCATION

Universidade Federal de Viçosa, Minas Gerais, Viçosa Brazil

- B.S., Agronomist Engineer – August 2017

Universidade Federal de Viçosa, Minas Gerais, Viçosa Brazil

- M.S., Genetics and Plant Breeding – August 2019

PEER REVIEWED RESEARCH ARTICLES

- Ferreira, PHS; **Gonçalves MTV**; Teixeira, G; Ferreira, MP; OLIVEIRA, RL; BARBOSA, MHP; PETERNELLI, LA. 2022. Comparison of family selection methodologies used in the initial phase of sugarcane breeding. *Crop Science*, v. 62, p. 679-689.

doi: <https://doi.org/10.1002/csc2.20685>

- **Gonçalves MTV**, Morota G, Almeida Costa PM, Vidigal PMP, Barbosa MHP, and Peterlini LA. 2021. Near-infrared spectroscopy outperforms genomics for predicting sugarcane feedstock quality traits. *PLOS ONE*. 16(3).

doi: [10.1371/journal.pone.0236853](https://doi.org/10.1371/journal.pone.0236853)

- Tomaz AC, **Gonçalves MTV**, Resende MDV, Brasileiro BP, Barbosa MHP, Peterlini LA. and Barbosa MHP. 2021. Genetic parameters and selection of sugarcane for borer resistance in the advanced selection stage. *CBAB*. 20(1).

doi: [10.1590/1984-70332020v20n1a13](https://doi.org/10.1590/1984-70332020v20n1a13).

- Tomaz, AC; **Gonçalves MTV**; Wartha, CA; PAPINI, NF; DE BARROS, AF; BARBOSA, MHP. 2021. Genetic and silicon-induced resistance of sugarcane to *Diatraea saccharalis* (Lepidoptera: Crambidae) and silicon effect on nutrient accumulation. *Phytoparasitica*, v. 49, p. 1-10.

doi: [10.1007/s12600-021-00960-6](https://doi.org/10.1007/s12600-021-00960-6)

- Peternelli LP, **Gonçalves MTV**, Fernandes JG, Brasileiro BP, Teófilo RF. 2020. Selection of sugarcane clones via multivariate models using nearinfrared (NIR) spectroscopy data. *AJCS*. 14(06)

doi: [10.21475/ajcs.20.14.06.p2099](https://doi.org/10.21475/ajcs.20.14.06.p2099)