

2023 Western SARE Graduate Student Grant Proposal:  
Nematicide Development from *S. sisymbriifolium* for Sustainable Eradication of *G. Pallida* in Idaho

**Sources Cited**

- Contina, J. B., Dandurand, L. M., & Knudsen, G. R. (2019). A Predictive Risk Model Analysis of the Potato Cyst Nematode *Globodera pallida* in Idaho. *Plant Disease*, 103(12), 3117–3128.  
<https://doi.org/10.1094/PDIS-04-19-0717-RE>
- Dandurand, L. M., Zasada, I. A., & LaMondia, J. A. (2019). Effect of the trap crop, *Solanum sisymbriifolium*, on *Globodera pallida*, *Globodera tabacum*, and *Globodera ellingtonae*. In *Journal of Nematology* (Vol. 51, Issue 1). Exeley Inc. <https://doi.org/10.21307/jofnem-2019-030>
- Dandurand, L. M., Morra, M. J., Zasada, I. A., Phillips, W. S., Popova, I., & Harder, C. (2017). Control of *Globodera* spp. Using *Brassica juncea* Seed Meal and Seed Meal Extract. In *Journal of Nematology* (Vol. 49, Issue 4).
- Dandurand, L. M., Zasada, I. A., Wang, X., Mimee, B., de Jong, W., Novy, R., Whitworth, J., & Kuhl, J. C. (2019). *Current Status of Potato Cyst Nematodes in North America*.  
<https://doi.org/10.1146/annurev-phyto-082718>
- Hafez, S. L., Sundararaj, P., Handoo, Z. A., Skantar, A. M., Carta, L. K., & Chitwood, D. J. (2007). First Report of the Pale Cyst Nematode, (*Globodera pallida*) , in the United States. *Plant Disease*, 91(3). <https://doi.org/10.1094/PDIS-91-3-0325B>
- Koirala, S., Watson, P., McIntosh, C. S., & Dandurand, L. M. (2020). Economic Impact of *Globodera Pallida* on the Idaho Economy. *American Journal of Potato Research*, 97(2), 214–220.  
<https://doi.org/10.1007/s12230-020-09768-2>
- Lejambree, L. F., Crofton, H. D., & Whitlock, J. H. (1970). An Assay Technique for Nematode Egg Hatchability. In *Source: Transactions of the American Microscopical Society* (Vol. 89, Issue 3).
- Palomares-Rius, J. E., Jones, J. T., Cock, P. J., Castillo, P., & Blok, V. C. (2013). Activation of hatching in diapaused and quiescent *Globodera pallida*. *Parasitology*, 140(4), 445–454.  
<https://doi.org/10.1017/S0031182012001874>
- Pillai, S. S., & Dandurand, L.-M. (2019). Evaluation of Fluorescent Stains for Viability Assessment of the Potato Cyst Nematodes *Globodera pallida* and *G. ellingtonae*. *Advances in Bioscience and Biotechnology*, 10(08), 244–258. <https://doi.org/10.4236/abb.2019.108019>
- Sivasankara Pillai, S., & Dandurand, L.-M. (2021). Effect of steroidal glycoalkaloids on hatch and reproduction of potato cyst nematode *Globodera pallida*. *Plant Disease*.
- USDA. (2020). *2020 Idaho State Agriculture Overview*.  
[www.nass.usda.gov/Quick\\_Stats/Ag\\_Overview/stateOverview.php?state=IDAHO](http://www.nass.usda.gov/Quick_Stats/Ag_Overview/stateOverview.php?state=IDAHO)
- Whitworth, J. L., Novy, R. G., Zasada, I. A., Wang, X., Dandurand, L. M., & Kuhl, J. C. (2018). Resistance of Potato Breeding Clones and Cultivars to Three Species of Potato Cyst Nematode. *Plant Disease*, 102(11), 2120–2128. <https://doi.org/10.1094/pdis-12-17-1978-re>
- Williams, T. D. (1978). Cyst nematodes: biology of *Heterodera* and *Globodera*. *Technical Bulletin-Great Britain, Ministry of Agriculture, Fisheries and Food*.