

Two postdoctoral positions in functional genomics of *Tetranychus urticae* – plant interaction

Two postdoctoral fellow positions are available immediately for motivated scientists in the Grbics lab to work on the functional genomics of the *Tetranychus urticae* – plant interaction as a part of the 4-year Ontario Research Funded project that is carried out by a consortium of several laboratories and industrial partners in Canada and Europe. The goal of the project is to elucidate molecular mechanisms of plant (*Arabidopsis* and tomato) defenses and mite counter-adaptations to them. Candidates should have a Ph.D. in Plant Biology, Genetics, Entomology, Biochemistry or related areas with solid training in plant and/or arthropod biology, molecular biology and statistics. Applicants with experience with plant-herbivore interactions, arthropods or other invertebrate models, RNAi or bioinformatics are preferred. The successful candidate should be able to work independently, as well as to work collaboratively with other postdocs and graduate students in the lab. Salary is competitive with experience.

To apply: please, send a letter of interest, CV, list of publications, and the names of three references to mgrbic@uwo.ca and vgrbic@uwo.ca.

Pertinent literature:

1. Miodrag Grbic et al. (2011) The genome of *Tetranychus urticae* reveals herbivorous pest adaptations. *Nature* Vol. 479: 487- 492.
2. Zhurov V, Navarro M, Bruinsma KA, Arbona V, Santamaria ME, Cazaux M, Wybouw N, Osborne EJ, Ens C, Rioja C, Vermeirssen V, Rubio-Somoza I, Krishna P, Diaz I, Schmid M, Gómez-Cadenas A, Van de Peer Y, Grbic M, Clark RM, Van Leeuwen T, Grbic V (2014) Reciprocal responses in the interaction between *Arabidopsis* and the cell-content-feeding chelicerate herbivore spider mite. *Plant Physiol* 164(1):384-99.
3. Martel C, Zhurov V, Navarro M, Martinez M, Cazaux M, Auger P, Migeon A, Santamaria ME, Wybouw N, Diaz I, Van Leeuwen T, Navajas M, Grbic M, Grbic V (2015) Tomato whole genome transcriptional response to *Tetranychus urticae* identifies divergence of spider mite-induced responses between tomato and *Arabidopsis*, *Mol Plant Microbe Interact.* 28:343-61.
4. Wybouw N, Zhurov V, Martel C, Bruinsma KA, Hendrickx F, Grbić V, Van Leeuwen T. (2015) Adaptation of a polyphagous herbivore to a novel host plant extensively shapes the transcriptome of herbivore and host. *Mol Ecol.* 24(18):4647-63.
5. Bensoussan N, Santamaria ME, Zhurov V, Diaz I, Grbić M and Grbić V (2016) Plant-Herbivore Interaction: Dissection of the Cellular Pattern of *Tetranychus urticae* Feeding on the Host Plant. *Front. Plant Sci.* 7:1105.

Prof. Drs. Miodrag Grbic and Vojislava Grbic

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