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Science Services

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Science Publications & Technical Reports (as at 09 January 2015)

Science Publications

Glatz, R.V. (Editor). (2015). *The molecular basis of olfaction*, Volume 130, Progress in Molecular Biology and Translational Science. Academic Press, London. 131 pp. *In press*.

Kristensen, N.P., Hilton, D.J., Kallies, A., Milla, L., Rota, J., Wahlberg, N., Wilcox, S.A., **Glatz, R.V.**, Young, D.A., Cocking, G., Edwards, T., Gibbs, G. & Halsey, M. (2015.) A new extant family of primitive moths from Kangaroo Island, Australia and its significance for understanding early Lepidoptera evolution (Insecta). *Systematic Entomology* **40**: 5-16.

Yazdani, M., **Glatz, R.** & Keller, M. (2014). Host discrimination by the solitary endoparasitoid *Dolichogenidea tasmanica* (Hymenoptera: Braconidae). *Biocontrol Science and Technology* **25**(2): 155-162, DOI: 10.1080/09583157.2014.964663

Yazdani, M., Feng, Y., **Glatz, R.** & Keller, M. (2014). Host stage preference of *Dolichogenidea tasmanica* (Cameron, 1912) (Hymenoptera: Braconidae), a parasitoid of *Epiphyas postvittana* (Walker, 1863) (Lepidoptera: Tortricidae). *Austral Entomology* DOI: 10.1111/aen.12130

Glatz, R.V. (2014). The curious case of the Kangaroo Island honeybee *Apis mellifera* Linnaeus, 1758 (Hymenoptera: Apidae) sanctuary. *Austral Entomology* DOI: 10.1111/aen.12124.

Siddiqui, S., Filomeni, E., Francois, M., Collins, S.R., **Glatz, R.V.**, Taylor, P.W., Fenech, M. & Leifert, R. (2013). Exposure of insect cells to ionising radiation in vivo induces persistent phosphorylation of a H2AX homologue (H2AvB). *Mutagenesis* **28**(5), 531-541.

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- Glatz, R.V.** and Kent, J.K. (2011). Insect molecular biology: an Australian perspective. *Australian Journal of Entomology* **50**(3), 209-220 (**Invited Overview**).
- Cooper, T., Bailey-Hill, K., Leifert, W.R., McMurchie, E.J., Asgari, S. and **Glatz, R.V.** (2011). Identification of an *in vitro* interaction between an insect immune-suppressor protein (CrV2) and G α proteins. *The Journal of Biological Chemistry*, **286**, 10466-10475.
- Rahman, M., **Glatz, R.V.**, Roush, R. and Schmidt, O. (2011). Developmental penalties associated with inducible tolerance in *Helicoverpa armigera* to insecticidal toxins from *Bacillus thuringiensis*. *Applied and Environmental Microbiology* **77**(4), 1443-1448.
- Glatz, R.V.** and Bailey-Hill, K. (2011). Mimicking nature's noses: from receptor deorphaning to olfactory biosensing. *Progress in Neurobiology*, **93**, 270-296. (**Invited Review**)
- Kimber, W.R., **Glatz, R.V.**, Caon, G. and Roocke, D. (2010). *Diaeretus essigellae* Starý and Zuparko (Hymenoptera: Braconidae: Aphidiini), a biological control for Monterey Pine aphid, *Essigella californica* (Essig) (Hemiptera: Aphididae: Cinarini): host-specificity testing and historical context. *Australian Journal of Entomology*, **49**, 377-387.
- Schellhorn, N.A., **Glatz, R.V.** and Wood, G.M. (2010). The relative risk of exotic and endemic plants as hosts for four pest thrips (Thysanoptera: Thripinae). *Bulletin of Entomological Research* **100**, 501-510.
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- Cooper, T., Leifert, W. R., **Glatz, R. V.** and McMurchie, E. J. (2008). Expression and characterisation of functional lanthanide-binding tags fused to a G α -protein and muscarinic (M₂) receptor. *Journal of Bionanoscience*, **2**: 27-34.
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- Glatz, R. V., Leifert, W. R., Bailey, K., Cooper, T. H., Barton, C. S., Martin, A. S., Aloia, A., Bucco, O., Waniganayake, L., Wei, G., Raguse, B., Weiczorek, L. & McMurchie, E. J. (2006). Cell-free receptor-based biosensors. 4pp. *International Conference of Nanoscience and Nanotechnology Proceedings*. Brisbane, 3-7 July.
- Leifert, W. R., Bailey, K., Cooper, T. H., Aloia, A. L., Glatz, R. V. and McMurchie, E. J. (2006). Measurement of heterotrimeric G-protein and RGS interactions by homogeneous time resolved fluorescence resonance energy transfer. *Analytical Biochemistry* 355, 201-212.
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- Glatz, R. V. (2005). Investigation of immune-suppressive genes expressed by the *Cotesia rubecula* bracovirus (CrBV). *Australian Journal of Entomology* 44, 216-217.
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Technical Reports

- Glatz, R.V.**, Leijs, R. & Hogendoorn, K. (2014). Biology, distribution and conservation of Green carpenter bee (*Xylocopa aeratus*: Apidae) on Kangaroo Island, South Australia. Report to Foundation For National Parks & Wildlife, Sydney.
- Leifert, W.R., **Glatz, R.V.**, Siddiqui, M.S., Collins, S.R., Taylor, P.W. and Fenech, M. (2013). Development of a test to detect and quantify irradiation damage in fruit flies. Report for Horticulture Australia Limited. Project No VG09160.
- Hill, K., Stevenson, B., **Glatz, R.** & Anderson, A. (2012). Biosensor based detection of grain pests. Final Report for Cooperative Research Centre for National Plant Biosecurity. Project No 20081.
- Cooper, T., **Glatz, R.**, Asgari, S and Etebari, K. (2011). Investigation of immune-suppressors of Diamondback moth (DBM). Final Report for Horticulture Australia Limited. Project No VG08048.
- Kimber, W., **Glatz, R.**, Caon, G., Roocke, D. and Luke, N. (2010). Introduction of the wasp *Diaeretus essigellae* (Hymenoptera: Braconidae: Aphidiini) for biological control of Monterey Pine Aphid, *Essigella californica* (Hemiptera: Aphididae: Cinarini) in Australia. Interim report for Forest and Wood Products Australia, Project PNO63.0607
- Glatz, R.V.** and Bailey, K.B. (2009). A baculovirus-based system for assigning odorants to nematode odorant receptors. Final report to CSIRO Food Futures Flagship, Black Mountain, Canberra.
- Wood, G.M., **Glatz, R.V.**, DeGraaf, H., Siekmann, G. and Stephens, C. (2009) Revegetation by design - promoting the 'on farm' use of native vegetation as agents for 'natural pest control' A final report for the Rural Industries Research and Development Corporation. Project No SAR- 59A.
- Wood, G.M., **Glatz, R.V.**, DeGraaf, H., Siekmann, G. and Stephens, C. (2009) Revegetation at property scale - designing the 'right' biodiversity for sustainable vegetable production. A final report for Horticulture Australia Limited. Project No VG06014.