

## Past Research on Neonicotinoids- Reference List- Rei Scampavia

---

- Blacqui re, T., G. Smaghe, C. A. M. van Gestel, and V. Mommaerts. 2012.** Neonicotinoids in bees: a review on concentrations, side-effects and risk assessment. *Ecotoxicology* 21(4): 973–992.
- Cameron, S. A., J. D. Lozier, J. P. Strange, J. B. Koch, N. Cordes, L. F. Solter, and T. L. Griswold. 2011.** Patterns of widespread decline in North American bumble bees. *PNAS* 108(2): 662-667.
- Cresswell, J. E. 2011.** A meta-analysis of experiments testing the effects of a neonicotinoid insecticide (imidacloprid) on honey bees. *Ecotoxicology* 20(1):149–157.
- Decourtye, A., E. Lacassie, and M. –H Pham-Del gue. 2003.** Learning performances of honeybees (*Apis mellifera* L.) are differentially affected by imidacloprid according to the season. *Pest Management Science* 69:269-278.
- Decourtye, A., C. Armengaud, M. Renou, J. Devillers, S. Cluzeau, M. Gauthier, and M.-H. Pham-Del gue. 2004.** Imidacloprid impairs memory and brain metabolism in the honey bee (*Apis mellifera* L.). *Pesticide Biochemistry and Physiology* 78: 83-92.
- Di Prisco, G., V. Cavaliere, D. Annoscia, P. Varricchio, E. Caprio, F. Nazzi, G. Gargiulo, and F. Pennacchio. 2013.** Neonicotinoid clothianidin adversely affects insect immunity and promotes replication of a viral pathogen in honey bees. *PNAS* 110(46): 18466–18471.
- Douglas, M. R., and J. F. Tooker. 2015.** Large-scale deployment of seed treatments has driven rapid increase in use of neonicotinoid insecticides and preemptive pest management in U.S. field crops. *Environmental Science and Technology* 49: 5088-5097.
- Fairbrother, A., J. Purdy, T. Anderson, and R. Fell. 2014.** Risks of neonicotinoid insecticides to honeybees. *Environmental Toxicology and Chemistry* 33 (4): 719-731.
- Gill, R. J., O. Ramos-Rodriguez, and N. E. Raine. 2012.** Combined pesticide exposure severely affects individual- and colony-level traits in bees. *Nature* 491: 105-109.
- Girolami, V., L. Mazzon, A. Squartini., N. Mori, M. Marzaro, A. Di Bernardo, M. Greatti, C. Giorio, and A. Tapparo. 2009.** Translocation of neonicotinoid insecticides from coated seeds to seedling guttation drops: a novel way of intoxication for bees. *Journal of Economic Entomology* 102(5):1808-1815.
- Girolami, V., M. Marzaro, L. Vivian, L. Mazzon, C. Giorio, D. Marton, and A. Tapparo. 2013.** Aerial powdering of bees inside mobile cages and the extent of neonicotinoid cloud surrounding corn drillers. *Journal of Applied Entomology* 137: 35-44.
- Godfray, H. C. J., T. Blacqui re, L. M. Field, R. S. Hails, G. Petrokofsky, S. G. Potts, N. E. Raine, A. J. Vanbergen, and A. R. McLean. 2014.** A restatement of the

## Past Research on Neonicotinoids- Reference List- Rei Scampavia

---

natural science evidence base concerning neonicotinoid insecticides and insect pollinators. Proc. R. Soc. B 281(1786): 1-9.

**Goulson, D., G. C. Lye, and B. Darvill. 2008.** Decline and conservation of bumble bees. Annual Review of Entomology 53: 191-208.

**Guez, D., S. Suchail, M. Gauthier, R. Maleszka, and L. P. Belzunces. 2001.** Contrasting effects of imidacloprid on habituation in 7- and 8-day-old honeybees (*Apis mellifera*). *Neurobiology of Learning and Memory* 76: 183-191.

**Han, P., C. –Y. Niu, C. –L. Lei, J. –J. Cui, and N. Desneux. 2010.** Use of an innovative T-tube maze assay and the proboscis extension response assay to assess sublethal effects of GM products and pesticides on learning capacity of the honey bee *Apis mellifera* L. *Ecotoxicology* 19: 1612-1619.

**Henry, M., M. Béguin, F. Requier., O. Rollin, J. Odoux, P. Aupinel, J. Aptel, S. Tchamitchian, and A. Decourtye. 2012.** A common pesticide decreases foraging success and survival in honey bees. *Science* 336: 348-350.

**Hopwood, J., M. Vaughan, M. Shepherd, D. Biddinger, E. Mader, S. H. Black, and C. Mazzacano. 2012.** Are Neonicotinoids Killing Bees? A Review of Research into the Effects of Neonicotinoid Insecticides on Bees, with Recommendations for Action. The Xerces Society for Invertebrate Conservation. Portland, Oregon.

**Iwasa, T., N. Motoyama, J. T. Ambrose, and R. M. Roe. 2004.** Mechanism for the differential toxicity of neonicotinoid insecticides in the honey bee, *Apis mellifera*. *Crop Protection* 23: 371–378.

**Krupke, C. H., G. J. Hunt, B. D. Eitzer, G. Andino, and K. Given. 2012.** Multiple routes of pesticide exposure for honey bees living near agricultural fields. *PLoS One* 7(1): e29268.

**Lambin, M., C. Armengaud, S. Raymond, and M. Gauthier. 2001.** Imidacloprid-induced facilitation of the proboscis extension reflex habituation in the honeybee. *Archives of Insect Biochemistry and Physiology* 48: 129-134.

**Lee, K. V., N. Steinhauer, K. Rennich, M. E. Wilson, D. R. Tarpy, D. M. Caron, R. Rose, K. S. Delaplane, K. Baylis, E. J. Lengerich, J. Pettis, J. A. Skinner, J. T. Wilkes, R. Sagili, and D. vanEngelsdorp, for the Bee Informed Partnership. 2015.** A national survey of managed honey bee 2013-2014 annual colony losses in the USA. *Apidologie* 46: 292-305.

**Lu, C., K. M. Warchol, and R. A. Callahan. 2012.** *In situ* replication of honey bee colony collapse disorder. *Bulletin of Insectology* 65(1):99-106.

## Past Research on Neonicotinoids- Reference List- Rei Scampavia

---

**Lu, C., K. M. Warchol, and R. A. Callahan. 2014.** Sub-lethal exposure to neonicotinoids impaired honey bees winterization before proceeding to colony collapse disorder. *Bulletin of Insectology* 67 (1): 125-130.

**Lundin, O., M. Rundlöf, H. G. Smith, I. and R. Bommarco. 2015.** Neonicotinoid insecticides and their impacts on bees: a systematic review of research approaches and identification knowledge gaps. *PLoS ONE* 10(8): e1036928.

**Medrzycki, P., R. Montanari, L. Bortolotti, A. G. Sabatini, S. Maini, and C. Porrini. 2003.** Effects of imidacloprid administered in sub-lethal doses on honey bee behavior, laboratory tests. *Bulletin of Insectology* 56: 59-62.

**Potts, S. G., J. C. Biesmeijer, C. Kremen, P. Neumann, O. Schweiger, and W. E. Kunin. 2010.** Global pollinator declines: trends, impacts and drivers. *Trends Ecol. Evol.* 25(6): 345–353.

**Scott-Dupree, C. D., L. Conroy, and C. R. Harris. 2009.** Impact of currently used or potentially useful insecticides for canola agroecosystems on *Bombus impatiens* (Hymenoptera: Apidae), *Megachile rotundata* (Hymenoptera: Megachilidae), and *Osmia lignaria* (Hymenoptera: Megachilidae). *Journal of Economic Entomology* 102: 177-182.

**Steinhauer, N. A., K. Rennich, M. E. Wilson, D. M. Caron, E. J. Lengerich, J. S. Pettis, R. Rose, J. A. Skinner, D. R. Tarpy, J. T. Wilkes, and D. vanEngelsdorp, for the Bee Informed Partnership. 2014.** A national survey of managed honey bee 2012-2013 annual colony losses in the USA: results from the Bee Informed Partnership. *Journal of Apicultural Research* 53(1): 1-18.

**Tapparo, A., D. Marton, C. Giorio, A. Zanella, L. Soldà, M. Marzaro, L. Vivan, and V. Girolami. 2012.** Assessment of the environmental exposure of honeybees to particulate matter containing neonicotinoid insecticides coming from corn coated seeds. *Environ Sci Technol.* 46: 2592-2599.

**Whitehorn, P. R., S. O'Connor, F. L. Wackers, and D. Goulson. 2012.** Neonicotinoid pesticide reduces bumble bee colony growth and queen production. *Science* 336(6079): 351-352.

**Winfree, R., R. Aguilar, D. P. Vázquez, G. LeBuhn, and M. A. Aizen. 2009.** A meta-analysis of bees' responses to anthropogenic disturbance. *Ecology* 90(8): 2068-2076.