

Concurrentie en competitie tussen bijen

4. Ziekteverwekkers worden overgedragen, maar de betekenis daarvan is niet duidelijk

Henk van der Scheer en Ardine Korevaar

Literatuur

1. Aubert, M., Ball, B., Fries, I., Moritz, R, Milani, N. en Bernardinelli, I., 2008. Virology and the honey bee. European Commission, pp, 458, ISBN 92-79-00586-3.
2. Bailes, E.J., Deutsch, K.R., Bagi, J., Rondissone, L., Brown, M.J.F. en Lewis, O.T., 2018. First detection of bee viruses in hoverfly (syrphid) pollinators. Biology Letters 14:20180001.
3. Chen, Y.P. en Siede, R., 2007. Honey bee viruses. Advances in Virus Research 70:33-80.
4. de Souza, F.S., Kevill, J.L., Correia-Oliveira, M.E., de Carvalho, C.A.L. en Martin, S.J., 2019. Occurrence of deformed wing virus variants in the stingless bee *Melipona subnitida* and honey bee *Apis mellifera* populations in Brazil. Journal of General Virology 2019 ? DOI 10.1099/jgv.0.001206.
5. de Sousa Pereira, K., Meeus, I. en Smagghe, G., 2019. Honey bee-collected pollen is a potential source of *Ascospaera apis* infection in managed bumble bees. Scientific Reports 9:4241.
6. Evison, S.E.F., Roberts, K.E., Laurenson, L., Pietravalle, S., Hui, J., Biesmeijer, J.C., Smith, J.E., Budge, G. en Hughes, W.O.H., 2012. Pervasiveness of parasites in pollinators. PLoS ONE 7(1):e30641.
7. Forzan, M., Sagona, S., Mazzei, M. en Felicioli, A., 2017. Detection of deformed wing virus in *Vespa crabro*. Bulletin of Insectology 70(2):261-265.
8. Fürst, M.A., McMahon, D.P., Osborne, J.L., Paxton, R.J. en Brown, M.J.F., 2014. Disease associations between honeybees and bumblebees as a threat to wild pollinators. Nature 506:364-366.
9. Gamboa, V., Ravoet, J., Brunain, M., Smagghe, G., Meeus, I., Figueroa, J., Riaño, D. en de Graaf, D.C., 2015. Bee pathogens found in *Bombus atratus* from Colombia: A case study. Journal of Invertebrate Pathology 129:36-39.
10. Genersch, E., 2008. Viren im Bienenvolk. Deutsches Bienen-Journal16(2):52-53.
11. Grozinger, C.M. en Flenniken, M.L., 2019. Bee viruses: ecology, pathogenicity, and impacts. Annual Review of Entomology 64:205-226;2019
12. Gisder, S. en Genersch, E., 2017. Viruses of commercialized insect pollinators. Journal of Invertebrate Pathology 147:51-59.
13. Loope, K.J., Baty, J.W., Lester, P.J. en Wilson Rankin, E.E., 2019. Pathogen shifts in a honeybee predator following the arrival of the Varroa mite. Proceedings of the Royal Society B 286:20182499.
14. Mallinger, R.E., Gaines-Day, H.R en Gratton, C., 2017. Do managed bees have negative effects on wild bees?: A systematic review of the literature. PLoS ONE 12(12):e0189268.
15. Manley, R., Boots, M. en Wilfert, L., 2015. Emerging viral disease risk to pollinating insects: ecological, evolutionary and anthropogenic factors. Journal of Applied Ecology 52:331–340.
16. Martin, S.J. en Brettell, L.E., 2019. Deformed wing virus in honeybees and other insects. Annual Review of Virology 6:12.1-12.21.
17. Melathopoulou, A., Ovinge, L., Wolf Veigac, P., Castillo, C., Ostermann, D. en Hoover, S., 2017. Viruses of managed alfalfa leafcutting bees (*Megachile rotundata* Fabricius) and honey bees (*Apis mellifera* L.) in Western Canada: Incidence, impacts, and prospects of cross-species viral transmission. Journal of Invertebrate Pathology 146:24-30.
18. Murray, E.A., Burand, J., Trikoz, N., Schnabel, J., Grab, H. en Danforth, B.N., 2019. Viral transmission in honey bees and native bees, supported by a global black queen cell virus phylogeny. Environmental Microbiology doi:10.1111/1462-2920.14501

19. Otterstatter, M.C. en Thomson, J.D., 2008. Does pathogen spillover from commercially reared bumble bees threaten wild pollinators? PLoS ONE 3(7):e2771.
20. Parmentier, L., Smagghe, G., de Graaf, D.C. en Meeus, I., 2016. Varroa destructor Macula-like virus, Lake Sinai virus and other new RNA viruses in wild bumblebee hosts (*Bombus pascuorum*, *Bombus lapidarius* and *Bombus pratorum*). Journal of Invertebrate Pathology 134:6-11.
21. Radzeviciute, R., Theodorou, P., Husemann, M., Japoshvili, G., Kirkitadze , G., Zhusupbaeva, A. en Paxton, R.J., 2017. Replication of honey bee-associated RNA viruses across multiple bee species in apple orchards of Georgia, Germany and Kyrgyzstan. Journal of Invertebrate Pathology 146:14-23.
22. Ravoet, J., De Smet, L., Meeus, I., Smagghe, G., Wenseleers, T. en de Graaf, D.C., 2014. Widespread occurrence of honey bee pathogens in solitary bees. Journal of Invertebrate Pathology 122:55–58.
23. Remnant, E.J., Shi, M., Buchmann, G., Blacquière, T., Holmes, E.C., Beekman, M. en Ashed, A., 2017. A diverse range of novel RNA viruses in geographically distinct honey bee populations. Journal of Virology 91(16):e00158-17.
24. Sebastien, A., Lester, P.J., Hall, R.J., Wang, J., Moore, N.E. en Gruber, M.A.M., 2015. Invasive ants carry novel viruses in their new range and form reservoirs for a honeybee pathogen. Biology Letters 11: 20150610.
25. Singh, R., Levitt, A.L., Rajotte, E.G., Holmes, E.C., Ostiguy, N., vanEngelsdorp, O., Lipkin, W.I., dePamphilis, C.W., Toth, A.L. en Cox-Foster, D.L., 2010. RNA Viruses in Hymenopteran pollinators: evidence of inter-taxa virus transmission via pollen and potential impact on non-*Apis* Hymenopteran species. PLoS ONE 5(12): e14357.
26. Ward, L., Waite, R., Boonhem, N., Fisher, T., Pescod, K., Thompson, H., Chantawannakul, P. en Brown, M., 2007. First detection of Kashmir bee virus in the UK using real-time PCR. Apidologie 38:181-190.