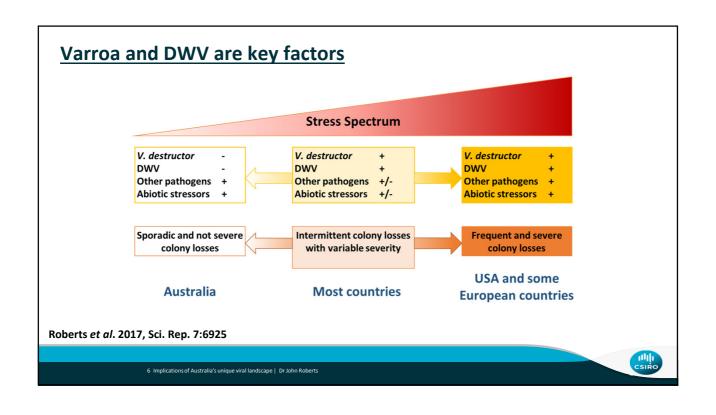


Diverse viral landscape Deformed wing virus-A Deformed wing virus-B Five bee viruses detected Antheraea pernyi iflavirus - Lymantria dispar iflavirus-1 Slow bee paralysis virus Dinocampus coccinellae paralysis virus DWV, SBPV and ABPV not detected Nilaparvata lugens honeydew virus-1 - Spodoptera exigua iflavirus-1 Infectious flacherie virus Found 40+ insect virus genomes 100 VN2-2 73 VN2-6 Ectropis obliqua virus **DWV-like viruses** Perina nuda virus - Spodoptera exigua virus-2 • NT-12 was 52% similar Lygus lineolaris virus-1 • QLD-14 was 69% similar QI D-11 - QLD-13 Sacbrood virus ⊢ NT-6 Roberts et al. 2018, J. Gen. Virol. 99:818-826



Implications on trade

USA stopped importing Australian bees because of SBPV

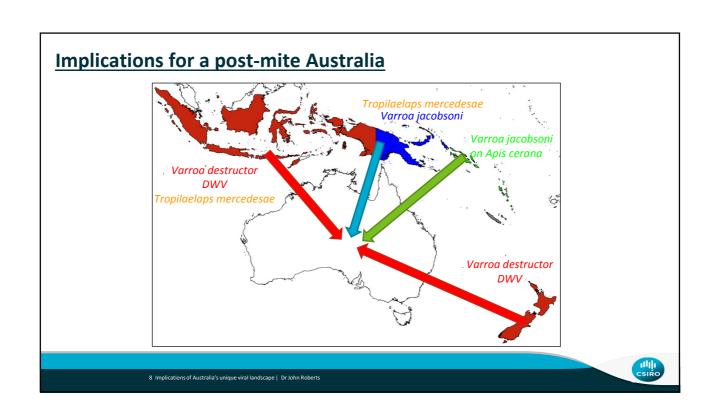
Risk of viruses from imported queen bees and drone semen





7 Implications of Australia's unique viral landscape | Dr John Robert





Papua New Guinea – Varroa without DWV



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Thanks for listening

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