Table S3. Routes of transmission for the eight most common RNA viruses of *Apis mellifera* with references. Virus abbreviations: DWV - Deformed wing virus, BQCV - Black queen cell virus, ABPV - Acute bee paralysis virus, SBPV - Slow bee paralysis virus, KBV - Kashmir bee virus, CBPV - Chronic bee paralysis virus, SBV - Sacbrood virus, IAPV - Israeli acute paralysis virus. Key: ✓ evidence suggestive, ☑ solid evidence (note: evidence was considered ‘solid’ if a transmission route was directly tested and proven to occur without the possibility of alternative transmission routes occurring simultaneously; evidence was considered ‘suggestive’ if transmission was shown indirectly (i.e. virus presence in pollen does not prove faecal-oral transmission occurs), was not the main focus of the study, or alternative routes of transmission were not ruled out).

<table>
<thead>
<tr>
<th>Viruses</th>
<th>Food</th>
<th>Faecal</th>
<th>Vector (V.destructor)</th>
<th>Contact</th>
<th>Sexual</th>
<th>Transovarial</th>
</tr>
</thead>
<tbody>
<tr>
<td>DWV</td>
<td>✓</td>
<td>✓ 1,15</td>
<td>✓ 10</td>
<td>✓ 3,11,12,14</td>
<td>✓ 7,16,19</td>
<td>✓ 10,17,19</td>
</tr>
<tr>
<td>BQCV</td>
<td>✓</td>
<td>✓ 1,15</td>
<td>✓ 10</td>
<td>✓ 10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ABPV</td>
<td>✓ 1</td>
<td>✓ 11,18</td>
<td>✓ 5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SBPV</td>
<td>✓ 1</td>
<td>✓ 6</td>
<td>✓ 2,9,11</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KBV</td>
<td>✓ 1,2</td>
<td>✓ 4</td>
<td>✓ 10,2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CBPV</td>
<td>✓ 1</td>
<td>✓ 8</td>
<td>✓ 10</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>SBV</td>
<td>✓ 1,2,15</td>
<td>✓ 11</td>
<td>✓ 10,2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IAPV</td>
<td>✓ 13</td>
<td></td>
<td></td>
<td></td>
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</tr>
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</table>

2. Shen et al. (2005)  
5. Bailey, Gibbs and Woods (1963)  
6. Ribiére et al. (2007)  
7. Yañez et al. (2012)  
10. Chen et al. (2006)  
12. Yue and Genersch (2005)  
13. Di Prisco et al. (2011)  
15. Singh et al. (2010)  
16. Yue et al. (2006)  
17. Yue et al. (2007)  
18. Genersch et al. (2010)  
19. de Miranda and Fries (2008)  
20. Santillán-Galicia et al. (2014)

References


