**S2 Table. Transmission trials of FD-related phytoplasmas by *O. alni*, *Allygus spp.* and *O. ishidae* collected on alder and subsequent transmission by *E. variegatus* and *S. titanus***

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Insect gender species** | **Region** | **Nb of insects** | **% of infected insects** | **Nb of infected plants/nb inoculated1** | **Phytoplasma isolate** | ***Map* genotype*/ vmpA* cluster** | ***E. variegatus* / *S. titanus* transmission2** |
| ***Oncopsis alni*** | Palatinate/Rhineland | 790 | 19 | 7/18 beans0/7 alders | FG-09-2FG-09-5FG-09-6FG-09-7FG-09-9FG-14-5FG-15-101 | M52/IM78/IM52/IM120/IM43/IM53/ ndM14/I | -/nd-/nd-/nd-/nd-/nd-/--/- |
| Alsace | 317 | 17 | 2/6 beans0/7 alders | FF-10-8FF-13-2 | M41/IM46/I | -/--/- |
| Aquitaine | 142 | 17 | 3/3 beans1/1 alder | FF-09-13FF-10-2FF-10-5AF-15-29 | M45/IM53/IM21/IM48/nd | -/nd-/--/-nd/nd |
| Burgundy | 109 | 45 | 1/2 beans0/2 alders | FF-13-1 | M52/I | -/- |
| ***Allygus mixtus or modestus*** | Palatinate/Rhineland | 178 | 66 | 2/9 beans1/5 alders | FG-15-124FG-15-125AG-15-120 | M38/IIM38/IIM38/II | +/++/+ nd/nd |
| Alsace | 11 | 63 | 0/1 alder |  |  |  |
| Aquitaine | 28 | 36 | 0/1 bean |  |  |  |
| Burgundy | 32 | 44 | 0/3 beans0/1 alder |  |  |  |
| ***Orientus ishidae*** | Palatinate/Rhineland | 23 | 61 | 1/2 beans1/1 alder | FG-15-126 AG15-115 | M38/IIM38/II | +/+ nd/nd |
| Alsace | 11 | 55 | 1/1 alder |  |  |  |
| Aquitaine | 104 | 49 | 5/5 alders | AF-15-31AF-15-32AF-15-33AF-15-34AF-15-38 | M50/ndM50/IIIM50-M38/ndM50-M38/ndM38/III | nd/ndnd/ndnd/ndnd/nd |
| Burgundy | 16 | 56 | 0/3 beans0/1 alder |  |  |  |

1. Transmission assay on one broad bean or alder plant
2. Acquisition on one infected broad bean plant followed by transmission on 5 to 10 broad bean plants.