**1. Basic info of the new species.**

Four new species

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| Strain | Species | Source | Geographical location |

1) *Nicolia spurrieriana*, SGEP1\_A5 = LMG 32134 = NBRC 114992, isolated from honey, the geographical location is Austria, CP093360–CP093361. GCA\_023380205.1 (**downloaded**).

2) *Aprilactobacillus apisilvae*, SG5\_A10 = LMG 32133 = NBRC 114991, isolated from whole bee homogenate, the geographical location is Austria, CP093362–CP093364.

3) *Bombilactobacillus thymidiniphilus*, SG4\_A1 = LMG 32125 = NBRC 114984, isolated from whole bee homogenate, the geographical location is Austria, CP093365.

4) *Bombilactobacillus folatiphilus*, SG4\_D2 = LMG 32126 = NBRC 115004, isolated from whole bee homogenate, the geographical location is Austria, CP093366-CP093367.

**2. Method**

Add the genome to the *Periweissella* tree to see where the new genus sits.