**Supplementary Table 1S**. Summary of gall sampling and parasitoid emergence for each site.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Site name** | **Cynipid species** | **Generation** | **Gall sample size** | **Parasitoid species** | **Parasitoid sample size** |
| **Female (♀)** | **Male****(♂)** | **Total** |
| **Bouzizi** | *Andricus coriarius* | Asexual | 9 | *Aulogymnus trilineatus* | 1 | / | 1 |
| *Bootanomyia stigmatizans* | 1 | / | 1 |
| *Cecidostiba fungosa* | 2 | / | 2 |
| *Eurytoma brunniventris* | 1 | 1 | 2 |
| *Eurytoma setigera* | 2 | / | 2 |
| *Mesopolobus amaenus* | / | 2 | 2 |
| *Sycophila biguttata* | 2 | / | 2 |
| *Andricus grossulariae* | Asexual | 9 | *Eurytoma brunniventris* | 1 | / | 1 |
| *Cecidostiba fungosa* | 3 | / | 3 |
| *Cecidostiba semifascia* | 1 | / | 1 |
| *Ormyrus pomaceus* | 2 | 1 | 3 |
| *Andricus hispanicus* | Asexual | 10 | *Sycophila iracemae* | 2 | 1 | 3 |
| *Andricus pictus* | Asexual | 22 | *Bootanomyia stigmatizans* | 1 | / | 1 |
| *Sycophila biguttata* | 1 | / | 1 |
| *Andricus quercustozae* | Asexual | 43 | *Aulogymnus trilineatus* | 1 | 1 | 2 |
| *Bootanomyia dorsalis*  | 1 | 1 | 2 |
| *Bootanomyia stigmatizans* | 1 | / | 1 |
| *Cecidostiba fungosa* | 1 | 1 | 2 |
| *Ormyrus nitidulus* | 1 | / | 1 |
| *Ormyrus pomaceus* | 3 | 1 | 4 |
| **Dar Smair** | Andricus grossulariae | Asexual | 9 | Cecidostiba fungosa | 2 | / | 2 |
| Ormyrus pomaceus | 1 | 1 | 2 |
| Andricus hispanicus | Asexual | 10 | Bootanomyia stigmatizans | 1 | / | 1 |
| *Andricus pictus* | Asexual | 11 | *Eupelmus azureus* | 1 | / | 1 |
| *Andricus quercustozae* | Asexual | 29 | *Eurytoma brunniventris* | 1 | 2 | 3 |
| *Sycophila biguttata* | 2 | / | 2 |
| *Sycophila iracemae* | 1 | 2 | 3 |
| *Biorhiza pallida* | Sexual | 21 | *Torymus affinis* | 2 | 1 | 3 |
| **Djebel El-Ghorra** | *Andricus coriarius* | Asexual | 30 | *Sycophila variegata* | 1 | / | 1 |
| *Andricus grossulariae* | Asexual | 14 | *Eurytoma brunniventris* | / | 1 | 1 |
| *Sycophila iracemae* | 1 | 1 | 2 |
| *Andricus hispanicus* | Asexual | 25 | *Bootanomyia stigmatizans* | 2 | 1 | 3 |
| *Eurytoma brunniventris* | 1 | / | 1 |
| *Eurytoma setigera* | 1 | / | 1 |
| *Ormyrus pomaceus* | 5 | / | 5 |
| *Torymus auratus* | 1 | / | 1 |
| *Andricus pictus* | Asexual | 22 | *Cecidostiba semifascia* | 1 | / | 1 |
| *Eurytoma brunniventris* | 1 | / | 1 |
| *Andricus quercustozae* | Asexual | 50 | Cecidostiba fungosa | 1 | 1 | 2 |
| Eupelmus azureus | 1 | / | 1 |
| Eurytoma brunniventris | 1 | / | 1 |
| Ormyrus nitidulus | 1 | / | 1 |
| Ormyrus pomaceus | 2 | / | 2 |
| Sycophila biguttata | 1 | / | 1 |
| Sycophila iracemae | 1 | 1 | 2 |
| *Cynips quercus* | Asexual | 20 | *Eurytoma brunniventris* | / | 1 | 1 |
| **Edough** | *Andricus grossulariae* | Sexual | 40 | *Eurytoma brunniventris* | 2 | / | 2 |
| *Sycophila variegata* | 2 | / | 2 |
| *Neuroterus quercusbaccarum* | Asexual | 141 | *Eurytoma brunniventris* | 2 | / | 2 |
| *Synophrus olivieri* | / | 76 | *Bootanomyia dorsalis* | 1 | / | 1 |
| *Eupelmus cerris* | 15 | 5 | 20 |
| *Sycophila biguttata* | 3 | / | 3 |
| *Sycophila variegata* | 2 | 2 | 4 |
| *Torymus cerri* | 15 | 12 | 27 |
| **Gliaa** | *Andricus coriarius* | Asexual | 4 | *Cecidostiba fungosa* | 1 | 1 | 2 |
| *Mesopolobus amaenus* | 1 | / | 1 |
| *Andricus grossulariae* | Asexual | 9 | *Aulogymnus trilineatus* | 1 | / | 1 |
| *Cecidostiba fungosa* | 2 | / | 2 |
| *Ormyrus pomaceus* | 3 | / | 3 |
| *Andricus hispanicus* | Asexual | 5 | *Cecidostiba semifascia* | 1 | / | 1 |
| *Ormyrus nitidulus* | 1 | / | 1 |
| *Andricus pictus* | Asexual | 11 | *Bootanomyia stigmatizans* | 1 | / | 1 |
| *Andricus quercustozae* | Asexual | 21 | *Bootanomyia dorsalis*  | 1 | / | 1 |
| *Bootanomyia stigmatizans* | / | 1 | 1 |
| *Eupelmus azureus* | 2 | 1 | 3 |
| *Mesopolobus lichtensteini* | / | 1 | 1 |
| *Sycophila iracemae* | 2 | / | 2 |
| *Biorhiza pallida* | Sexual | 11 | *Torymus affinis* | 2 | 1 | 3 |
| **Mechta Ain Chaara** | *Andricus grossulariae* | Sexual | 20 | *Sycophila variegata* | 2 | / | 2 |
| *Plagiotrochus amenti* | Asexual | 6 | *Ormyrus pomaceus* | 1 | / | 1 |
| *Synophrus olivieri* | / | 60 | *Eupelmus cerris* | 3 | 1 | 4 |
| *Sycophila biguttata* | 1 | / | 1 |
| *Sycophila variegata* | 2 | 1 | 3 |
| *Torymus cerri* | 10 | 5 | 15 |
| **Mellah Lake** | *Synophrus olivieri* | / | 30 | *Eupelmus cerris* | 4 | 2 | 6 |
| *Torymus cerri* | 7 | 3 | 10 |
| *Synophrus hispanicus* | / | 20 | *Bootanomyia stigmatizans* | 1 | / | 1 |
| **Mghassel** | *Andricus grossulariae* | Sexual | 60 | *Eurytoma brunniventris* | 2 | 2 | 4 |
| *Sycophila biguttata* | 3 | / | 3 |
| *Sycophila variegata* | 1 | / | 1 |
| *Pseudoneuroterus saliens* | Sexual | 70 | *Eurytoma brunniventris* | 1 | 1 | 2 |
| *Synophrus olivieri* | / | 76 | *Bootanomyia dorsalis*  | 1 | 1 | 2 |
| *Eupelmus cerris* | 3 | 2 | 5 |
| *Eurytoma setigera* | 2 | / | 2 |
| *Sycophila variegata* | 2 | / | 2 |
| *Torymus cerri* | 8 | 4 | 12 |
| **Total** |  |  | **999** |  | **175** | **67** | **242** |