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▲ Scanning electron micrographs of *Grimmia curviseta* showing lack of peristome (top) and protonemata with young gametophores produced in culture (bottom). A. Rodríguez.

### **Ex situ conservation of the Macaronesian endemic *Grimmia curviseta*.**

Most Macaronesian endemic bryophytes are threatened. One of them, *Grimmia curviseta*, is restricted to the high mountain habitats of the Canary Islands. A diagnostic character of *G. curviseta* is the absence of a peristome.

*Ex situ* conservation techniques are being developed for *G. curviseta* at the *in vitro* culturing facilities of the NHM. I was able to establish, for the first time, *in vitro* axenic cultures of this species on parent substrate 'rock cultures'. Rather unexpectedly, *G. curviseta* readily produced gametophores in culture. I am now developing weaning protocols in preparation for reintroduction trials.