**INTEGRATIVE TAXONOMY OF THE PSORACEAE**

**Ann Evankow1\*; Mika Bendiksby1,2; James D. M. Speed2; Einar Timdal1**

**1 University of Oslo, Norway; 2 NTNU Department of Natural History, Norwegian University of Science and Technology, Norway; \*E-mail:** **Ann.evankow@nhm.uio.no**

In this study, we evaluate the current uncertain taxonomic circumscription of the lichenized family Psoraceae. The Psoraceae have roughly 65 species in the order Lecanorales, sister to the Ramalinaceae. Currently, there are several genera (*Glyphopeltis,* *Protomicarea*, *Psorula*) with uncertain placement in the family, and one genus that was recently moved to another family (*Eremastrella*). We test the existing family hypothesis using an integrative systematics approach combining molecular DNA markers, morphological features, and chemotype characters, to evaluate the placement of genera within the family. We additionally focus on the type genus *Psora,* investigating several poorly understood species complexes. We present preliminary results based on a subset of samples and data.