**Population genomics of crab apple (*Malus sylvestris*) in Norway with special emphasis on the hybridization with domesticated apple (*Malus pumila*).**

Crab apple is a relatively rare species in Norway that is mainly found in small patchy populations along the coast. It is threatened by changes in the landscape and hybridization with the domesticated apple. Previous studies have found that a relatively large proportion of the sampled individuals were hybrids, but it is still unknown how this hybridization will affect the long term survival of crab apple.

The Norwegian Genetic Resource Centre and NIBIO have an ongoing study on crap apple in Norway that focus on the preservation of the genetic diversity of the species. In this master project we will study how hybridization may change crab apple by using RADseq. The sampling area will be mainly a relatively large population of crab apple at Jomfruland in southern Norway. You will be involved in the whole process from sampling of trees to the DNA analyses and population genetic analyses.

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