



**M.Sc. thesis/Examens arbete project “Adaptive divergence of the moor frog (*Rana arvalis*) along an acidification gradient: embryonic survival, larval life-history traits and the agents of selection in the wild”**

Our laboratory studies on the moorfrog (*åkergröda*) in Västra-Götaland/Halland area show strong adaptive divergence among populations from acid versus neutral environments. We are now looking for a M.Sc. student to quantify phenotypic divergence (embryonic survival, larval life-history traits) and selective environment in these populations in nature. This aim of this project is to estimate phenotypic divergence in the wild compared to that observed under controlled conditions in the lab, and to quantify agents of natural selection in the study populations.

The data collection involves extensive field surveys and processing of material in the lab (for example, image analyses for tadpole size measurements). The results of this work will complement other ongoing research on this topic (experimental and molecular genetic work).

The work will be supervised by Anssi Laurila (Dept. of Population and Conservation Biology, EBC) and Katja Räsänen (Dept. of Aquatic Ecology, ETH-Zürich/Eawag, Switzerland)

We are looking for a highly motivated and independent student, with good fieldwork, English language and teamwork skills. Drivers license and Swedish skills are mandatory. Starting date 1<sup>st</sup>-15<sup>th</sup> March, 2009. For detailed questions on the project contact Katja Räsänen [katja.rasanen@eawag.ch](mailto:katja.rasanen@eawag.ch)

**Interested? Contact Anssi Laurila ([anssi.laurila@ebc.uu.se](mailto:anssi.laurila@ebc.uu.se)) or Katja Räsänen ([katja.rasanen@eawag.ch](mailto:katja.rasanen@eawag.ch)) preferably by February 15, 2009.**

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