

From: [Eva Hedmark](#)
To: [Grizzle, Betty](#)
Subject: RE: Wolverine genetics questions
Date: Thursday, January 26, 2017 2:20:34 AM

Dear Betty,

As far as I know there has not been any recent publication directly comparing Scandinavian and North American wolverines genetically to answer your question. There is however one study that might be interesting:

Väli U, Einarsson A, Waits L, **Ellegren H**. To what extent do microsatellite markers reflect genome-wide genetic diversity in natural populations? *Molecular Ecology*. 17: 3808-17. PMID [18647238](#) DOI: [10.1111/j.1365-294X.2008.03876.x](#).

Best regards,
Eva Hedmark

From: Grizzle, Betty [mailto:betty_grizzle@fws.gov]
Sent: den 25 januari 2017 19:18
To: Eva Hedmark
Subject: Wolverine genetics questions

Hello Dr. Hedmark - I am a biologist with the U.S. Fish and Wildlife Service in our Carlsbad, California office. I am currently preparing a status review of the wolverine as part of our agency's listing determination process. Dr. Bob Inman provided your name as someone who might be able to help answer a few questions.

Can you provide me with any recent information (studies, reports, etc.) as to the taxonomic status of the wolverine? Specifically, are there studies that clarify whether the North American and Eurasian populations are the same species, or two subspecies? I understand there has been some debate about this and early studies using morphometric measurements (Kurten and Rausch 1959; Rausch 1953) considered the two populations as comprising two subspecies. Results from various genetic studies for the North American populations (primarily from Canada) published in the past 10 years have not completely clarified this subspecies issue. Are there more recent published genetic analyses from Sweden (or elsewhere)?

Thank you for your time,
Betty

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