

## CURRICULUM VITAE

Jacob Höglund, born 3 January 1958

Departmental address:

Dept. Ecology and Genetics, Uppsala University

Norbyvägen 18D

SE-752 36 Uppsala

tel. +46-18-182671 (office) or 4716473 (lab.)

fax. +46-4716424

e-mail. [jacob.hoglund@ebc.uu.se](mailto:jacob.hoglund@ebc.uu.se)

[www.ebc.uu.se/popbio](http://www.ebc.uu.se/popbio)

Home address:

Övreslottsgatan 14A

SE-75310 Uppsala

tel. +46-18-100865

married to Eva Boo Höglund

four children (born 87, 90, 94, 96)

Research areas:

Animal Ecology, Population Biology, Ecological Genetics, Conservation Biology

Present position:

Professor of Animal Conservation Biology, Uppsala University

### **I. Academic exams/titles:**

Professor of Animal Conservation Biology, Dept. of Ecology and Genetics, Uppsala University, since February 2000.

Docent (Dr. Sci), Animal Ecology, Dept. of Zoology, Uppsala University, 26 May 1992.

Fil. dr. (Ph.D), Animal Ecology, Dept. of Zoology, Uppsala University, 21 April 1989.

Fil. kand. (B.Sc), Biology/Chemistry, Uppsala University 1983.

### **II. Positions:**

Professor, Animal Conservation Biology, Dept. Ecology and Genetics, 2006-to the present

Head of Dept. (programansvarig professor), Div. of Population Biology and Conservation Biology, Dept. Ecology and Evolution, Uppsala University, 1999-2005.

Senior lecturer/Associate Professor (universitetslektor) in Evolutionary Biology, Dept. of Zoology, Uppsala University, 1993 - 1998.

Assistant Professor (forskarassistent). Dept. of Zoology, Uppsala University/Swedish Natural Sciences Research Council (NFR), 1989-1993.

Post-doc, School of Biological Sciences, Univ. East Anglia, Prof. WJ Sutherland. (Royal Society of Sciences-Sweden/Royal Society-Britain). 1989.

Assistant teacher (20%). Zoology, Dept. Biol. Education, Uppsala University, 1985-1986.

Ph.D student. Dept. of Zoology, Uppsala University, 1984-1989.

### **III. Major grants (amounts in SEK):**

- “The threat of the newly discovered Chytrid fungus for population persistence of Swedish amphibians: occurrence, immunogenetic variation and resistance” Formas 2015-2017 (5 000 000)
- “Evolutionary Genomics of Sexual Selection in Lekking Birds” Swedish Research Council (VR) 2014-2016 (2 100 000)
- “A bird’s eye view of host-parasite interactions” –pilot study SciLife- Uppsala. 2011-2012 (200 000)
- “Adaptive genetic diversity in natural populations: evolution and conservation biology.” Swedish Research Council (VR) 2009-2011 (2 600 000).
- “Genetic variation and conservation biology: studying adaptive genetic variation in grouse and snipe” VR 2005-2008 (1 600 000).
- “Genetic variation and conservation biology: studying adaptive genetic variation in Swedish natterjack toad populations” Swedish Research Council for Agriculture and Development (Formas) 2005-2008 (2 200 000)
- “Hunting, genetic variation and population structure in willow grouse”. Swedish EPA (SNV) 2004-2006 (900 000).
- “Spatial and phylogenetic population structure” VR 2003-2005 (1 800 000).
- “Conservation Biology of Grouse.” Carl Trygger Foundation and Engqvist's Found. 2001
- “Cumulative impact assessment of local landscape change on habitat connectivity for black and hazel grouse” Formas 2002-2005 (1 350 000)
- “Phylogenetic Ecology” Swedish Natural Sciences Research Council (NFR) 2000-2002
- “Phylogenetic ecology- causes and consequences of social variation in forest grouse (Tetraoninae) and waders (Charadriiformes)” NFR, 1997-1999
- “Ecology and evolution of mating aggregations” EU Human Capital and Mobility Network (with RV Alatalo Jyväskylä, WJ Sutherland UEA, M Petrie Oxford, F Trillmich Bielefeld M Apollonio Pisa) 1995-1996.
- “Evolutionary stable distributions of animal populations with special reference to mating aggregations” NFR, 1993 - 1996.
- “Game theory, alternative reproductive strategies and the evolution of animal mating systems”. NFR, 1989 - 1993.
- ”Breeding biology of the great snipe”. Nordic Council for Ecology (with J-A Kålås and L. Løfaldli, NINA, Trondheim, Norway) 1987-1988.
- “Great snipe”, World Wide Fund for Nature 1987-1990.

### **IV. Supervision:**

Bachelor level:

Aspgren R, Uppsala University, December 2012

Wallace-Ricker M, Uppsala University 2011

Bate, E. Erasmus student exchange. October 1994

Rodén, A. Lindholm, A. Uppsala University, October 1989

Masters:

Patrik Rodin-Mörch, Uppsala University 2014

Martin Svedberg Uppsala University 2014,

Mulder K, Uppsala University December 2012

Pavlovska, M. Uppsala University May 2012  
Wengström Å, Uppsala University May 2012  
Rosza, J. Uppsala University, May 2011  
Johansson, M. Uppsala University, March 2010  
Morandin, C. Uppsala University, January 2010  
Xiao, L. Uppsala University, January 2010  
Kempe, V. Uppsala University, September 2009  
Svensson, E. Uppsala University, January 2009  
Liu, Y. Uppsala University, November 2007  
Hoffman, M. Uppsala University, December 2007  
Wikström, F. Uppsala University, December 2006  
Thörngren, H. Uppsala University, December 2006  
Halvarsson, P. Uppsala University, January 2005  
Rudh, A. Uppsala University, October 2005  
Kölsch, A. Univ. Greifswald, November 2005  
Flygare, E. Uppsala University, December 2005  
Åkerlind, M. Uppsala University, November 2004  
Rogell, B. Uppsala University, December 2004  
Gustavsson, H. Uppsala University, December 2002  
Jones, K. Uppsala University, June 2001  
Sahlman, T. Uppsala University, November 2001  
Svensson, M. Uppsala University, September 2000  
Hannersjö, D. Uppsala University, September 2000  
Lindell, J. Uppsala University. May 1998  
Vouti, J. Uppsala University. October 1998  
Björklund, N. Uppsala University. October 1998  
Lindwall, J. Uppsala University. November 1998  
Thuman, C. Uppsala University, November 1998  
Poijkeljärvi, N. Uppsala University. May 1996  
Dahlblom, S. Uppsala University. December 1996  
Larsson Jobs K. Uppsala University December 1996  
Sedin, J. Uppsala University. November 1997  
Berg, L. Uppsala University. October 1994  
Johansson, T. Stockholm University. Sept. 1993  
Nordenfors, H. Uppsala University. November 1993  
Norin, O. Uppsala University. October 1993  
Eriksson, M. Uppsala University, September 1988  
Lindell, L. E. Uppsala University, September 1988

Licentiate:

Fornbacke, M. Uppsala University, March 2010  
Halvarsson, P, Uppsala University, September 2013

PhD-level:

Gowri Shankar, Uppsala University/North Orissa Univ., started in August 2014  
Maria Cortazar Chinarro, Uppsala University, started May 2014  
Radoslav Kozma, Uppsala University, started February 2012  
Wang Biao, Uppsala University, December 2012

Development of Genomic Resources in Non-model Bird Species

- Andreas Rudh, Uppsala University, September 2012 (second supervisor)  
Aposematism, crypsis and population differentiation in the strawberry poison frog
- Tanja Strand (nee Viio), Uppsala University, November 2011  
European Black grouse: MHC diversity and population structure
- Carolina Corrales, Uppsala University, May 2011  
Population genetic structure of black grouse (*Tetrao tetrix*): From a large to a fine scale perspective
- Björn Rogell, Uppsala University, September 2009  
Genetic variation and local adaptation in peripheral populations of toads
- Lars Forsberg, Södertörn University College, May 2008 (second supervisor)  
MHC variation in Salmonid fish
- Tobias Sahlman, Uppsala University, December 2007 (shared supervision)  
Population genetic analyses of dispersal and substructure in three bird species
- Jonas Sahlsten, Uppsala University, June 2007  
Impact of geographical structures on habitat choice, metapopulation dynamics and genetic structure for hazel grouse (*Bonasa bonasia*)
- Jobs Karl Larsson, Uppsala University, October 2005  
Genetic variability of grouse populations
- Robert Ekblom, Uppsala University, November 2004.  
Immunoecology of the great snipe (*Gallinago media*).
- Dannewitz, J. Uppsala University, December 2003.  
Genetic and ecological consequences of fish releases.
- Shorey, L. Uppsala University, September 2002  
Genetic structuring and the evolution of lekking behaviour in the white-bearded manakin, *Manacus manacus*.
- Johansson, T. Uppsala University, March 2001  
Habitat selection, nest predation and conservation biology in a black -tailed godwit (*Limosa limosa*) population.
- Stenström, D. Uppsala University, December 1998  
Mating behaviour and sexual selection in non-lekking fallow deer (*Dama dama*).
- Jones-Fur, C. Uppsala University, March 1998  
Ecology, sexual selection and variable mating tactics in fallow deer (*Dama dama*)
- Widemo, F. Uppsala University, April 1995  
Distribution models and the evolution of lekking: with empirical tests on the ruff (*Philomachus pugnax*)
- Forsgren, E. Uppsala University, April 1995 (shared supervision)  
Sexual selection in the sand goby, *Pomatoschistus minutus*

#### **V. Post-doctoral Visitors/Visiting Reseachers.**

- Dr. Yvonne Meyer-Lucht, Univ. Potsdam, 2011-2014
- Dr. Eleanor Jones, University of York, 2010-2011
- Dr. Gernot Segelbacher, University of Freiburg, 2009
- Dr. Maria Quintela Sánchez, Universidade da Coruna, 2006-2009
- Dr. Stein-Are Sæther, NTNU, Trondheim, 2000-2001, 2005
- Dr. Pekka Rintamäki, Univ. Jyväskylä, Finland, 1996
- Dr. Sabine Stöhr, Univ. Hamburg, FRG, 1996
- Dr. Peder Fiske, NVH Trondheim, Norway, 1996

Cand Sci. Stein-Are Sæther, NVH Trondheim, Norway, 1995  
Dr. Trond Amundsen, NVH Trondheim, Norway, 1995  
Dr. Petr. Komers, Univ. Cambridge, UK, 1995  
Dr. Christophe Pelabon, Univ. Lyon, France, 1995  
Dr. Lee A. Dugatkin, Univ. Kentucky, USA, 1994  
Dr. Robert Gibson, UCLA, USA, 1993

**VI. Invited speaker to:**

University of Veterinary Medicine Vienna, Austria, January 2015  
ESEB Congress-Conservation Genetics Symposium, Lisbon Portugal, August 2013  
University Oslo, February 2013  
ESF-ConGenOmics workshop, Turku Finland, October 2012  
Linnaeus University Kalmar, September 2012  
Contemporary molecular-genetic approaches in zoology and conservation genetics.  
Workshop. Masaryk University, Czech republic, December 2011  
Masaryk University, Brno Czech republic, December 2011  
Evolutionary Genetics and Environmental Change. Workshop, Stockholm University  
June 2011  
Lund University, November 2010  
University Fribourg, Switzerland, November 2010  
Naturvårdsverket (Swedish EPA) Conservation Genetics workshop May 2009  
Centre for Theoretical Biology, Gothenburg Univ. (CTBio) April 2009  
UKPopNet Genetics in Conservation Working Group, October 2008  
University Oslo, November 2007  
University of Groningen, February 2007  
Swedish Veterinary Institute, November 2006  
University Oslo, February 2006  
SLU Umeå, December 2005  
UCD Dublin, October 2005  
University of Jyväskylä, March 2004  
Univ. Joensuu, March 2002  
Beijing Normal University, P.R. China, April 2001  
Inst. Zoology, Chinese Academy of Sciences, Beijing, P.R. China, April 2001  
University of Gothenburg, Sept. 2000  
Galileo Galilei Foundation. Int. School of Ethology. 14<sup>th</sup> Workshop. Erice, Sicily. Dec.  
1998  
EU TMR Network: Social Evolution. Workshop Genetic Methods. Uppsala, Sweden,  
Oct. 1998  
22nd International Ornithological Congress, Symposium: Sexual Selection, Durban,  
RSA, Aug 1998  
Uppsala Univ. Faculty of Science, Feb. 1998  
Univ. Jyväskylä, April 1997  
Stockholm University, Faculty of Science, Nov. 1996  
Univ. Bristol, workshop: Future of Game Theory in Behavioural Ecology, Jan. 1996  
Univ. Lund, Dec. 1995  
Uppsala Univ., Dept. of Systematic Botany, Nov. 1995  
Univ. Toronto, Nov. 1995  
Queen's University, Kingston, Ontario, Nov. 1995  
Société Québécoise pour l'Etude Biologique du Comportement, Montreal, Nov. 1995

McGill University, Montreal, Nov. 1995  
University of Hamburg, Jan. 1995  
University of Helsinki, Mar. 1994  
University of Stockholm, Sept. 1993  
23:rd International Ethological Congress, Torremolinos, Plenary address. Aug. 1993  
Uppsala University, Faculty of Science, Nov. 1992  
9th Int. Waterfowl Ecology Symposium, Hajduszoboszlo, Sept. 1992  
University of Copenhagen, May 1992  
The Association for the Study of Animal Behaviour, workshop: The adaptive basis of female sexual behaviour, Glasgow, Sept. 1991  
The Association for the Study of Animal Behaviour, symposium: Evolutionary aspects of behaviour, Stockholm, July 1991  
Cambridge University, Nov. 1990  
University of Oxford, Oct. 1990  
The Association for the Study of Animal Behaviour, symposium: Sexual selection, London, Dec. 1989  
University of Leicester, Dec. 1989  
University of Helsinki, Sept. 1989  
XXI:st International Ethological Congress, Utrecht, Aug. 1989  
University of Stockholm, Nov. 1988  
University of Jyväskylä, May 1988  
University of Trondheim. Symposium on Behavioural Ecology, Oct. 1986

## **VII. Reviews:**

American Naturalist, Animal Behaviour, Auk, Behaviour, Behavioural Ecology, Behavioural Ecology and Sociobiology, Conservation Biology, Conservation Genetics, Ecography, Ecological Applications, Ethology, Evolution, Heredity, Immunogenetics, J. Biogeography, J. Evol. Biology, J. Mol. Evol., J. Ornithol., J. Field Orn., Molecular Ecology, Naturwissenschaften, Proceedings of the Royal Soc. (London) ser. B, Ornis Scandinavica/J. Avian Biology, Oikos, Ornis Fennica, Oecologia, EEE (Ecology Ethology and Evolution), Trends in Ecology and Evolution, Trends in Genetics, Wildlife Biol, Nature

Associate Editor, Behavioral Ecology and Sociobiology, from March 1997-August 2000  
Associate Editor, Conservation Genetics, May 2010-  
Associate Editor, Animal Biodiversity and Conservation, November 2014-

Johan G. van Rhijn, "The ruff", Poyser, London, 1991, for Wader Study Group Bull. 65 (1992)

External PhD examiner (opponent):

Alina Niskanen, Univ. Oulu, 2014  
Ines Sanchez Donoso, Univ. Barcelona, 2014  
Krijn Trimbos, Univ. Leiden, 2013  
Silje Hogner, Univ. Oslo, 2013  
Jan Axtner, Univ Potsdam, 2013  
Jenny Johansson, Linnaeus University, 2012  
Aines del Carmen Castro Prieto, University of Potsdam, 2011  
Marcus Ljungqvist, Lund University, 2010

Natalina Signorell, Univ. Bern, 2008  
Gunnhild Marthinsen, Univ. Oslo, 2007  
Björn Källström, Gothenburg University, 2006  
Brad Fedy, Univ. of British Columbia, 2006  
Gwenaél Jacob, Univ. Zurich, 2006  
Petra Nielsen, Lic thesis, Stockholm University, 2005  
Malin Ah-King, Lic thesis, Stockholm University, 2002  
Niklas Kolm, Lic thesis, Uppsala University, 2001  
Janne Kotiaho, University of Jyväskylä, April 1997  
Torggrim Breihagen, University of Trondheim, February 1992

Docent qualification:

Linda Laikre, Stockholm Univ, 2009  
Staffan Andersson, Gothenburg Univ, 2000  
Veijo Jormalainen, Univ. Turku, Oct. 1997

Promotion to Senior Lecturer

Barry McMahon, Univ College Dublin 2013  
Stuart Piertney, Aberdeen Univ. 2006

Promotion to Professor

Jonas Waldenström, Linnaeus Univ Kalmar 2014  
Stuart Piertney, Univ Aberdeen 2012  
Lars Edenius, SLU Umeå,  
Jon Slate, Sheffield Univ. 2011  
Carl André, Gothenburg Univ 2010  
Ian Jamieson, Univ Otago 2007  
Josephine Pemberton, Edinburgh Univ 2004.

Job search committees:

Professorship, University of Jyväskylä. 2007  
Professorship, University Oldenburg 2006  
Associate professor, Umeå University. 2006  
Professorship, University of Jyväskylä. 2005

External examiner, MSc in Wildlife & Conservation Management, Univ. College Dublin, 2012-2014.

Uppsala University's reply on Swedish Environmental Protection Agencies' report on National management plans for bears, wolverine, lynx and golden eagles, November 2012

Uppsala University's reply on Swedish Environmental Protection Agencies' report on Status of the four big mammalian predator populations, July 2011

Uppsala University's reply on Swedish Board of Gene Technology report on Risks of GMO, Dec 2009

Uppsala University's reply on Foreign Office report on Swedish Aid Research, Oct 1994

Research applications:

FCT, Portugal 2012-2013

European Research Council, Start-up Grants, 2011-

Consolider, Spain, 2010

FWF, Austria 2005

Finnish Academy, December 2003

NFR, Norway, September 2003

NSF, USA, January 2003

Finnish Academy, February 2001

NFR, Norway, November 2000

NSF, USA, March 2000

NSF, USA, Sept. 1998

NSERC, Canada, Jan 1999

NERC, UK, Sept. 1998

NERC, UK, Dec. 1997

NERC, UK, Dec. 1996

National Geographic Society, January 1990.

### **VIII. Board Membership**

European Society for Evolutionary Biology, Council. 2011-2015

External evaluator, National Centre for Biosystematics, Univ. Oslo, 2008-2011

Gene Technology Advisory Board, Swedish Parliament, 2007-2010

Environmental Protection Agency (SNV), reference group on genetic diversity, 2007

Advisory Board for the Institute for Ornithology Seewiesen and Radolfzell, Max Planck Society. 2005-2008, chairman.2008

Science Foundation Ireland Research Frontiers EEEOB 2005-2009, 2010

Committee on Biodiversity, Vetenskapsrådet. 2004-2007.

Dept. of Ecology and Evolution, Uppsala University. 2003-2006.

Dept. of Evolutionary Biology. Uppsala University. 2000-2003.

Dept. of Biological Education. Uppsala University. Deputy. 1998-2001.

Permanent referee Ecology-Swedish Natural Sciences Research Council (Extra sakkunring i Programutskottet för Biologi/Ekologi, NFR). 1996-98, 2000.

Electorial Board (Elektorsförsamlingen), Faculty of Science, Uppsala University, 1996-1999

Section of Animal Ecology, Uppsala University, 1996-1998.

Chairman of the Steering Committee for the Centre for Evolutionary Biology. Faculty of Science, Uppsala University. 1995-1996

Senior scientist/Head of Unit, Molecular Genetics Lab. Dept. of Zoology, Uppsala University. 1995-1998

The Committee for Scientific Evaluations at the Swedish Environmental Protection Agency (SNV), Terrestrial Environments (landmiljö) 1993-1996

Dept. of Zoology, Uppsala University, 1986-1989.

### **IX. Conference organiser**

6:th International Black Grouse Conference, Gysinge, 2012

ESF-workshop, Ecological Genomics, Tällberg, Leksand, 2008,



ESEB XI, biannual congress of the European Society for Evolutionary Biology, Uppsala 2008

#### **X. Teaching experience**

Coordinator and Uppsala University representative in the MEME an Erasmus Mundus programme in Evolutionary Biology. Cooperation between Uppsala, Montpellier2, LMU Munich, Groningen and Harvard (associated member). 2010-onwards.

Lecturer, Evolutionary Processes, Uppsala University, 2006-onwards, Head teacher 2006-2008, 2011-.

Coordinator and lecturer, Master's programme in Evolutionary Biology, Uppsala University, 2006-2009.

Lecturer, Conservation Biology, Uppsala University, 2000-onwards

Lecturer, Population Biology, Uppsala University, 1998-2005.

Co-organiser of three NCE-workshops for Nordic graduate students (Alternative Reproductive Behaviours; Ideal Free Distribution Theory; Behavioural Ecology and Conservation Biology).

Lecturer, University of Jyväskylä summer university, Comparative Methods, 1995

Lecturer, Animal Ecology MN2, Uppsala University, 1996-98.

Lecturer, Biology MN3, Uppsala University, 1989 and onwards

Assistant, Ecology MN1, Uppsala University, 1986-1987

Assistant, Taxonomy MN1, Uppsala University, 1986-1987

#### **XI. Outreaching activities**

Articles in daily newspapers (see publication list), interviews in national radio (last April 2009), participation in TV-show "Jorden med Anna-Charlotta" (UR)

## Publications:

Reviewed Scientific Journals or Books:

1. Höglund J 1985 Foraging success of rooks, *Corvus frugilegus*, in mixed species flocks of different sizes. *Ornis Fennica* 62: 19-22
2. Nilsson SG Björkman C Forslund P Höglund J 1985 Egg predation in forest bird communities on islands and mainland. *Oecologia* 66: 511-516
3. Nilsson SG Björkman C Forslund P Höglund J 1985 Nesting holes and food supply in relation to forest bird densities on islands and mainland. *Oecologia* 66: 516-521
4. Höglund J Robertson J 1986 Species isolating mechanisms in a population of sympatric toads. In: Rocek Z (ed.) *Studies in Herpetology*. pp. 553-556 Charles University, Prague
5. Höglund J Robertson JGM 1987 Random mating by size in a population of common toads (*Bufo bufo*). *Amphibia Reptilia* 8: 321-330
6. Höglund J Lundberg A 1987 Sexual selection in a monomorphic lek-breeding bird: correlates of male mating success in the great snipe *Gallinago media*. *Behav Ecol Sociobiol.* 21: 211-216
7. Alatalo RV Höglund J Lundberg A 1988 Patterns of variation in tail ornaments in birds. *Biol J Linn Soc* 34: 363-374
8. Höglund J Robertson JGM 1988 Chorusing behaviour, a density dependent alternative mating strategy in male common toads. *Ethology* 79: 324-332
9. Höglund J 1989 Pairing and spawning in *Bufo bufo*: The effects of sex ratios and time available for male-male competition. *Anim Behav* 38: 423-429
10. Höglund J 1989 Size and plumage dimorphism in lek-breeding birds: A comparative analysis. *Am Nat* 134: 72-87
11. Höglund J Lundberg A 1989 Plumage color is correlated with body size in the Ruff, *Philomachus pugnax*. *Auk* 106: 336-338
12. Höglund J Säterberg L 1989 Sexual selection in common toads: correlates with age and body size. *J Evol Biol* 2: 367-372
13. Höglund J 1989 Sexual selection and the evolution of leks. *Acta Universitatis Upsaliensis. Comprehensive Summaries of Uppsala Dissertations from the Faculty of Science* 184.
14. Höglund J Kålås JA Løfaldli L 1990 Sexual dimorphism in the lekking great snipe. *Ornis Scand* 21: 1-6

15. Höglund J Robertson JGM 1990 Spacing of leks in relation to female home ranges, habitat requirements and male attractiveness in the great snipe (*Gallinago media*). Behav Ecol Sociobiol 26:173-180
16. Höglund J Robertson JGM 1990 Female preferences, male decision rules and the evolution of leks in the Great snipe. Anim Behav 40: 15-22
17. Höglund J Eriksson M Lindell LE 1990 Females of the lek-breeding Great snipe (*Gallinago media*), prefer males with white tails. Anim Behav 40: 23-32
18. Höglund J Alatalo RV Lundberg A 1990 Copying the mate choice of others? Observations on female black grouse. Behaviour 114: 221-231
19. Schlyter F Höglund J Strömberg G 1991 Hybridization and low numbers in isolated populations of the natterjack *Bufo calamita* and the Green toad *B. viridis* in southern Sweden: possible conservation problems. Amphibia Reptilia 12: 267-281
20. Møller AP Höglund J 1991 Patterns of fluctuating asymmetry in avian feather ornaments: Implications for models of sexual selection. Proc Roy Soc Lond (B): 245: 1-5
21. Alatalo R Höglund J Lundberg A 1991 Lekking in black grouse- a test of male viability. Nature (London) 352: 155-156
22. Alatalo RV Höglund J Lundberg A Sutherland WJ 1992. Evolution of Black grouse leks- Female preferences benefits males in larger leks. Behav Ecol 3: 53-59
23. Höglund J Alatalo RV Lundberg A 1992. The effects of parasites on male ornaments and female choice in the lek-breeding black grouse (*Tetrao tetrix*). Behav Ecol Sociobiol 30: 71-76
24. Höglund J Kålås JA Fiske P 1992. The costs of secondary sexual characters in the lekking great snipe (*Gallinago media*). Behav Ecol Sociobiol 30: 309-315
25. Suhonen J Alatalo RV Carlsson A Höglund J 1992. Food resource distribution and the organization of the *Parus* guild in spruce forest. Ornis Scand 23: 467-474
26. Gibson R Höglund J 1992. Copying and sexual selection TREE 7: 229-232
27. Höglund J Montgomerie RD Widemo F 1993. Costs and consequences of variation in the size of ruff leks. Behav Ecol Sociobiol 32: 31-39
28. Höglund J 1993. Costs of mate advertisement. Etologia 3: 143-150
29. Höglund J Sillén-Tullberg B 1994 Does lekking promote the evolution of male biased size dimorphism in birds? On the use of comparative approaches. Am Nat 144: 881-889
30. Höglund J Alatalo RV Lundberg A Rätti O 1994. Context-dependent effects of tail-ornament damage on mating success in black grouse. Behav Ecol 5: 182-187

31. Hovi M Alatalo RV Höglund J Lundberg A Rintamäki PT 1994. Lek centre attracts black grouse females. *Proc Roy Soc Lond B* 258: 303-305
32. Rintamäki PT Alatalo RV Höglund J Lundberg A 1995 Male territoriality and female choice on black grouse leks. *Anim Behav* 49: 759-767
33. Höglund J Alatalo RV Gibson RM Lundberg A 1995 Mate choice copying in black grouse. *Anim Behav* 49: 1627-1633
34. Dugatkin LA Höglund J 1995 Delayed breeding and the evolution of mate choice copying in lekking species. *J theor Biol* 174: 261-267
35. Rintamäki PT Alatalo RV Höglund J Lundberg A 1995 Mate sampling behaviour of black grouse females. *Behav Ecol Sociobiol* 37:209-215
36. Alatalo RV Burke T Dann J Hannote O Höglund J Lundberg A Moss R Rintamäki P 1996 Paternity, copulation disturbance and female choice in lekking black grouse. *Anim Behav* 52: 861-873
37. Höglund J 1996 Can mating system affect local extinction risks? Two examples of lek breeding waders. *Oikos* 77: 184-188
38. Alatalo RV Höglund J Lundberg A Rintamäki P Silverin B 1996. Testosterone and male mating success on the black grouse leks. *Proc Roy Soc Lond (B)*: 263: 1697-1702
39. Hovi M Alatalo RV Höglund J Lundberg A 1996. Traditionality of Black Grouse *Tetrao tetrix* leks. *Ornis Fenn* 73: 119-123
40. Höglund J 1997 Arenabalz des Birkhuhns: Sind die Männchen mit größerem Fortzplantungserfolg überlebensfähiger? In Franck, D. *Verhaltensbiologie*, 3. Auflage.
41. Kålås JA Fiske P Höglund J 1997 Food supply and breeding occurrences: the West-European population of the lekking great snipe. *J Biogeography* 24:213-221
42. Höglund J Johansson T Pelabon C 1997 Behavioural differences between successful and unsuccessful lekking black grouse. *Anim Behav* 54: 255-264
43. Höglund J Stöhr S 1997. A non-lekking population of black grouse *Tetrao tetrix*. *J Avian Biol* 28: 184-187
44. Rintamäki P Alatalo RV Höglund J Lundberg A 1997 Fluctuating asymmetry in lekking black grouse. *Anim Behav* 54: 265-269
45. Höglund J Widemo F Sutherland WJ Nordenfors H 1998 Ruffs (*Philomachus pugnax*) and ideal free distribution models: can leks be regarded as patches? *Oikos* 82: 370-376
46. Höglund J Sheldon BC 1998 The cost of reproduction and sexual selection. *Oikos* 83: 478-483

47. Rintamäki PT Lundberg A Alatalo RV Höglund J 1998 Black grouse females mated with attractive males lay more eggs. *Anim Behav* 56: 1399-1403
48. Höglund J 1999 Ecology, life-history and sexual selection in forest grouse (Tetraoninae): a phylogenetic perspective. In: Adams, N Slotow, R. (eds.), *Proc. 22 Int Ornithol Congr Durban, Univ Natal*: 1126-1140
49. Höglund J Alatalo RV Lundberg A Lindell J 1999 Microsatellite markers reveal the potential for kin selection on male black grouse leks. *Proc Roy Soc Lond B* 266: 813-816
50. Pelabon C Komers PE Höglund J 1999 Breeding synchrony, density and leks in fallow deer. *Can J Zool* 77: 667-670
51. Kokko H Rintamäki PT Alatalo RV Höglund J Karvonen E Lundberg A 1999. Female choice selects for lifetime lekking performance in black grouse males. *Proc Roy Soc Lond B* 266: 2109-2115
52. Höglund, J 2000 Mating systems and morphology: what can phylogenies tell us about the evolution of sexual dimorphism in lekking birds? In: M. Appolonio, M. Festa Bianchet D Mainardi (eds.). *Vertebrate Mating Systems*. World Scientific Printers, Singapore. pp 66-79.
53. Stenström D Dahlblom S Jones Fur C Höglund J 2000. Rutting pit distribution and the significance of fallow deer *Dama dama* scrapes during the rut. *Wildlife Biol* 6: 23-29
54. Rintamäki PT Höglund J Karvonen E Alatalo RV Björklund N Lundberg A Rätti O Vouti J. 2000. Combs and sexual selection in black grouse *Tetrao tetrix*. *Behav Ecol* 11: 465-471
55. Shorey L Piertney S Stone J Höglund J 2000 Fine-scale genetic structuring on *Manacus manacus* leks. *Nature (Lond)* 408: 352-353
56. Segelbacher G Höglund J. 2000 Using microsatellites to study the conservation of black grouse. *Cahiers d'Ethologie* 20: 411-420
57. Rintamäki PT Höglund J Alatalo RV Lundberg A 2001 Correlates of male mating success on black grouse (*Tetrao tetrix L*) leks. *Ann Zool Fennici* 38: 99-109
58. Lucchini V Höglund J Klaus S Swenson J Randi E 2001 Historical biogeography and a mitochondrial DNA phylogeny of grouse and ptarmigan. *Mol Phyl Evol* 20: 149-162
59. Piertney SB Höglund J 2001 Polymorphic microsatellite DNA markers in black grouse (*Tetrao tetrix*). *Mol Ecol Notes* 1: 303-304
60. Höglund J Piertney SB Alatalo RV Lindell J Lundberg A Rintamäki PT 2002 Inbreeding depression and male fitness in black grouse. *Proc Roy Soc (Lond) B* 269: 711-715
61. Rintamäki PT Håstad O Ödéén A Alatalo RV Höglund J Lundberg A 2002 Sexual selection, colour perception and coloured leg rings in grouse (Tetraonidae) *Avian Science* 2: 145-152.

62. Piertney S Shorey L Höglund J 2002 Characterization of microsatellite DNA markers in the white-bearded manakin (*Manacus manacus*). Mol Ecol Notes 2: 504-505
63. Ekblom R Grahn M Höglund J 2003 Patterns of polymorphism in the MHC class II of a non-passerine bird, the great snipe (*Gallinago media*). Immunogenetics 54: 734-741
64. Höglund J 2003 Lek-kin in birds – provoking theory and surprising new results. Ann Zool Fennici 40: 249-253
65. Segelbacher G Höglund J Storch I 2003 From connectivity to isolation: genetic consequences of population fragmentation in capercaillie across Europe. Mol Ecol 12: 1773-1780
66. Höglund J Shorey L 2003 Local genetic structure in a white-bearded manakin population. Mol Ecol 12: 2457-2463
67. Larsson JK Sun YH Fang Y Segelbacher G Höglund J 2003 Microsatellite variation in a Chinese grouse *Bonasa sewerzowi* population: signs of genetic impoverishment? Wildl Biol 9: 261-266
68. Höglund J Shorey L 2004 Genetic divergence in the superspecies *Manacus*. Biol J Linn Soc 81: 439-447.
69. Höglund J Baines D Larsson JK Segelbacher G 2004 Population fragmentation and genetic variability in European black grouse: a progress report. Sylvia 39: 17-23.
70. Ekblom R, Saether SA, Grahn M, Fiske J, Kålås JA, Höglund J. 2004. Major histocompatibility complex variation and mate choice in a lekking bird, the great snipe (*Gallinago media*). Mol Ecol 13: 3821-3828.
71. Ekblom R Saether SA Hasselquist D Hannersjö D Fiske P Kålås JA Höglund J 2005 Female choice and male humoral immune response in the lekking great snipe (*Gallinago media*). Behav Ecol 16: 346-351.
72. Ottvall R Höglund J Bensch S Larsson K 2005 Population differentiation in the redshank (*Tringa totanus*) as revealed by mitochondrial DNA and amplified fragment length polymorphism markers Conservation Genetics 6: 321-331
73. Rogell B Gyllenstrand N Höglund J 2005 Six polymorphic loci in the natterjack toad, *Bufo calamita*. Mol Ecol Notes 5: 639-640
74. Seather SA Baglo R Fiske P Ekblom R Höglund J Kålås JA 2005 Direct and indirect mate choice on leks. Am Nat 166: 145-157
75. Florin AB Höglund J 2007 Absence of population structure of turbot (*Psetta maxima*) in the Baltic Sea. Mol Ecol 16: 115-126

76. Segelbacher G Wegge P Höglund J 2007 Kin groups in closely spaced capercaillie leks? *J Ornithol* 148: 79-84
77. Höglund J Larsson JK Jansman HAH Segelbacher G 2007 Genetic variability in European black grouse (*Tetrao tetrix*). *Cons Gen* 8: 239-243
78. Ekblom R Saether SA Jacobsson P Fiske P Sahlman T Grahn M Kålås JA Höglund J 2007 Spatial pattern of Mhc Class II variation in the great snipe (*Gallinago media*). *Mol Ecol* 16:1439-1451
79. Saether SA Fiske P Kålås JA Kuresoo A Luigujoe L Piertney SB Sahlman T Höglund J 2007 Inferring local adaptation from Qst-Fst comparisons: neutral genetic and quantitative trait variation in European populations of great snipe. *J Evol Biol*: 20: 1563-1576
80. Kölzsch A Sæther SA Gustafsson H Fiske P Höglund J Kålås 2007 Population fluctuations and regulation in great snipe: a time series analysis. *J Anim Ecol* 76: 740-749
81. Strand T Westerdahl H Höglund J Alalatalo R Siitari H 2007 Diversity and variable expression of *Mhc* class II B and Y genes in Black grouse (*Tetrao tetrix*). *Immunogenetics* 59: 725-734
82. Rudh A Rogell B Höglund J 2007 Non-gradual variation in colour morphs of the strawberry poison frog *Dendrobates pumilio*: genetic and geographic isolation suggest a role for selection in maintaining polymorphism. *Mol Ecol* 16: 4284-4294
83. Florin AB Höglund J 2008 Population structure of flounder (*Platichthys flesus*) in the Baltic Sea: differences among demersal and pelagic spawners. *Heredity* 101: 27-38
84. Larsson JK Jansman HAH Segelbacher G Höglund J Koelewijn HP 2008 Genetic impoverishment of the last Black grouse (*Tetrao tetrix*) population in the Netherlands: detectable only with a reference from the past. *Mol Ecol* 17: 1897-1904
85. Sahlsten J Thörngren H Höglund J 2008 Landscape genetics of hazel grouse. *Heredity* 101: 475-482
86. Höglund J Johansson T Beintema A Schekkerman H 2008 Phylogeography of the Black-tailed godwit *Limosa limosa*: substructuring revealed by mtDNA control region sequences. *J Ornithol* 150: 45-53
87. Berlin S, Quintela M, Höglund J 2008 A multilocus assay reveals high nucleotide diversity and limited differentiation among Scandinavian willow grouse (*Lagopus lagopus*). *BMC Genetics* 9: 89 doi:10.1186/1471-2156-9-89
88. Höglund J 2009 Genetic studies of black grouse with special reference to conservation biology: a review. *Folia Zoologica* 58: 135-149
89. Segelbacher G Höglund 2009 Ecological genomics and conservation where do we stand? *Genetica* 136: 387-390.

90. Ekblom R Sæther SA Fiske P Kålås JA Höglund J 2009 Balancing selection, sexual selection and geographic structure in MHC genes of Great Snipe. *Genetica* 138:453–461
91. Sahlman T Segelbacher G Höglund J 2009 91. Sahlman T Segelbacher G Höglund J 2009 Islands in the ice: colonisation routes for rock ptarmigan to the Svalbard archipelago. *Ecography* 22: 2267-2277
92. Rogell B, Hofman M, Laurila A, Höglund J 2009 The interaction of multiple environmental stressors affects adaptation to a novel habitat in the natterjack toad *Bufo calamita*. *J Evol Biol* 22: 2267-2277.
93. Sahlsten J Wickström F Höglund J 2010 Hazel grouse population dynamics in a fragmented landscape: a metapopulation approach. *Wildl Biol* 16: 35-46
94. Rogell B, Thörngren H Laurila A Höglund J 2010 Genetic structure in peripheral populations of the natterjack toad, *Bufo calamita*, as revealed by AFLP. *Cons Gen* 11: 173-181
95. Quintela M Thulin CG Höglund J 2010 Detecting hybridization between willow grouse (*Lagopus lagopus*) and rock ptarmigan (*L. muta*) in Central Sweden through Bayesian admixture analyses. *Cons Gen* 11:557–569
96. Rogell B, Thörngren H Laurila A Höglund J 2010 Fitness costs associated with low genetic variation are reduced in a harsher environment in amphibian island populations. *Cons Gen* 11:489–496
97. Skoglund P Höglund J 2010 Sequence Polymorphism in candidate genes for differences in winter plumage between Scottish and Scandinavian willow grouse (*Lagopus lagopus*). *PLoS ONE* 5: e10334
98. Rogell B Eklund M Thörngren H Laurila A Höglund J 2010 The effect of selection, drift and genetic variation on life history trait divergence among insular populations. *Mol Ecol* 19: 2229–2240
99. Quintela M Berlin S Wang B Höglund J 2010 Genetic diversity and differentiation among *Lagopus lagopus* populations in Scandinavia and Scotland: Evolutionary significant units determined by SNP markers. *Mol Ecol* 19: 2380-2393
100. Svobodova J Segelbacher G Höglund J 2011 Genetic variation in black grouse populations with different lekking type in the Czech Republic. *J Ornithol* 152: 37-44
101. Rogell B Berglund A Laurila A Höglund J 2011 Population divergence of life history traits in the endangered green toad: implications for a support release programme. *J Zool* 285: 46-55
102. Höglund J Larsson JK Baines D Corrales C Santafe G Segelbacher G 2011 Genetic structure among black grouse in Britain: implications for designing conservation units. *Anim Conserv* 14: 400-408
103. Strand T Höglund J 2011 Genotyping of black grouse MHC class II B using Reference Strand-Mediated Conformational Analysis (RSCA). *BMC Res Notes* 4: e183



104. Corrales C Höglund J 2012 Maintenance of gene flow by female biased dispersal of black grouse *Tetrao tetrix* in northern Sweden. *J. Ornithol* 153: 1127-1139
105. McMahon BS Johansson M Piertney S Buckley K Höglund J 2012 Genetic variation among endangered Irish red grouse (*Lagopus lagopus hibernicus*) populations: implications for conservation and management. *Cons Gen* 13: 639-647
106. Johansson M Höglund J Johansson M Segelbacher G McMahon BS 2012 Amplification success of multilocus genotypes from feathers left for varying times in the field. *Ibis* 154: 15-20
107. Tsuboi M Gonzalez-Voyer A Höglund J Kolm N 2012 Ecology and mating competition influence sexual dimorphism in Tanganyikan cichlids. *Evol Ecol* 26: 171-185
108. Wang B Ekblom R Pollock D Bongcam-Rudloff E Höglund J 2012 Transcriptome sequencing of black grouse (*Tetrao tetrix*) for immune gene discovery and microsatellite development. *Open Biology* 2: e120054.
109. Strand T Segelbacher G Quintela M Xiao L Axelsson T and Höglund J 2012 Can balancing selection on MHC loci counteract genetic drift in small fragmented populations of black grouse? *Ecol Evol* 2: 341–353
110. Höglund J Wang B Axelsson T Quintela M 2013 Phylogeography of willow grouse *Lagopus lagopus* in the arctic: taxonomic discordance as inferred from molecular data. *Biol J Linn Soc* 110: 77-90
111. Wang B Strand T Portelo-Bens S Ekblom R Höglund J 2012 The minimal essential MHC of Black Grouse (*Tetrao tetrix*): gene organization, expression and evolution. *BMC Genomics*, 13: 53
112. Hartman G Koelsch A Larsson JK Höglund J 2013 Trends and population dynamics of a Velvet scoter population (*Melanitta fusca*) - influence of density dependence and winter climate. *J Ornithol* 154: 837-847
113. Höglund J Thulin C-G Jarnemo A 2013 Genetic variation and structure in Scandinavian red deer (*Cervus elaphus*): influence of ancestry, past hunting, and restoration management. *Biol J Linn Soc* 109: 43–53
114. Strand T Wang B Meyer-Lucht Y Höglund J 2013 Evolutionary history of black grouse major histocompatibility complex class IIB genes revealed through single locus sequence-based genotyping. *BMC Genetics* 14: e29
115. Corrales C Pavlovska M Höglund J 2014 Phylogeography and subspecies status of black grouse. *J Ornithol* 155: 13-25
116. Segelbacher G Strand T Quintela M Axelsson T Jansman HAH Koelewijn P Höglund J 2014 Historical and current populations of black grouse in Central Europe – evidence for rapid loss of genetic diversity. *Cons Gen* 15: 1183-1195

117. Wang B Ekblom R Bunikis I Siitari H Höglund J 2014 Whole genome sequencing of the black grouse (*Tetrao tetrix*): reference guided assembly suggests faster-Z and MHC evolution. *BMC Genomics* 15: e180
118. Morandin C Loveridge A Segelbacher G Elliot N Madzikanda H Macdonald DW Höglund J 2014 Gene flow and immigration: Genetic diversity and population structure of lions (*Panthera leo*) in Hwange National Park, Zimbabwe. *Cons Gen* 15: 697-706
119. McMahon BJ Teeling EC Höglund J 2014 How and why should we implement genomics in conservation? *Evol Appl* 7: 999-1007
120. Lebigre C, Alatalo RV, Soulsbury C, Höglund J, Siitari H 2014 Limited indirect fitness benefits of male group membership in a lekking species. *Mol Ecol* 23: 5356–5365
121. Shafer ABA Wolf JBW Alves PC Bergström L Bruford MW Brännström I Colling G Dalén L De Meester L Ekblom Fawcett KD Fior S Hajibabaei M Hill JA Hoebel AR Höglund J Jensen EL Krause J Kristensen TN Krützen M McKay JK Norman AJ Ogden R Österling EM Ouborg NJ Piccolo J Popovic D Primmer CR Reed FA Roumet M Salmons J Schenker T Schwartz MK Segelbacher G Senn H Thaulow J Valtonen M Veale A Vergeer P Vijay N Vilà C Weissensteiner M Wennerström L Wheat CW Zieliński P 2015 Conservation genomics: difficult transition from academic forefront to uptake in the conservation frontline. *TREE*, published on-line
122. Höglund J Saether SA Fiske P Wheatcroft D Kålås JA A hybrid snipe *Gallinago gallinago* × *G. media* found in the wild. *J Ornithol*, accepted for publication
123. Pavlovska M Höglund J Ukrainian Black grouse (*Tetrao tetrix*): genetic diversity and population structure. *Wildl Biol*, accepted for publication
124. Höglund J Wengström Å Rogell B Meyer-Lucht Y Low MHC variation in isolated island populations of the Natterjack toad (*Bufo calamita*) *Cons Gen*, accepted for publication

Books:

1. Höglund J Alatalo RV 1995 *Leks*. Princeton Univ. Press. Monographs in Behavior and Ecology, Princeton Univ. Press, Princeton, NJ. Pp. 248
2. Höglund J 2009 *Evolutionary Conservation Genetics*. Oxford University Press, Oxford. Pp. 189

Publications in Scandinavian languages (English summary):

1. Höglund J 1984 Kleptoparasitism hos råka. *Fåglar i Uppland* 11: 96-98
2. Höglund J Lundberg A 1985 Lekbeteende hos dubbelbeckasin. *Ringinform* 8: 11-12
3. Höglund J 1988 Våra beckasiner. *Fåglar i Uppland* 15: 43-50

4. Løfaldli L Höglund J Kålås JA Fiske P 1989 Dobbeltbekkasinens tilbakegang i Skandinavia et historisk tilbakeblikk (The decline of the great snipe in Scandinavia, a historic view). Vår fuglefauna 39: 39-43
5. Höglund J 1990 Fågelinventering av Uppländska myrar. Utförd av Upplands Ornitologiska Förenings Våtmarksgrupp. Länsstyrelsen i Uppsala län.
7. Höglund J 1992 Fågellivet på uppländska myrar. (The bird fauna on myres in Uppland). Fåglar i Uppland 19: 125-133
8. Höglund J 1997 Varför bildas fågellekar? In: Ekman J Lundberg, A (red.). Fågelekologi. SOF: Stockholm.
9. Höglund, J. 2001. Kreationismen- en ohållbar teori Uppsala Nya Tidning 010607
10. Höglund J 2004. Christersson och fladdermössen Uppsala Nya Tidning 040313
11. Höglund J 2007. Vad är priset på en utdöd art? Uppsala Nya Tidning 070607
12. Thulin CG Höglund J Quintela M 2010 Fjällripan – En zoologisk relik? Svensk Jakt
13. Jarnemo A Thulin CG Höglund J 2013 Varifrån kommer kronviltet i Sverige. Svensk Jakt