

Curriculum vitae

Name: Lotte Kathrine Hauge Madsen
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Date of birth: April 4, 1962.
Marital status: De Facto (Jens Erik Jensen).
Children: Ebbe born May 24, 1995
Ole born February 11, 1999.

Educational training:

1981 Graduated from high school (gymnasium).
1981 Law student at University of Copenhagen.
1983 Student of agriculture at the Royal Veterinary and Agricultural University of Denmark (RVAU).
1988 Master degree in plant sciences from the RVAU.
1991 Ph.D.-student at the RVAU, Section of Weed Science.
1994 Graduated as Ph.D. in February. Thesis entitled "Weed management and impact on ecology of growing glyphosate tolerant sugarbeets (*Beta vulgaris* L.)".
1997-1998 Completed the one-year study programme in educational studies for assistant professors at KVL.

Employments:

1987 Temporary position for six month as agricultural adviser at "Familiebruget Region Syd", a farmer organization.
1988 Permanent position as agricultural adviser at Gørlev Sugar Factory, DANISCO A/S.
1991 Ph.D.-student at Weed Science and Maribo Seed, DANISCO A/S.
1993 Research fellow at the RVAU, Section of Weed Science. Project entitled "Genetically modified herbicide resistant plants - herbicide use and environmental consequences". September to December 1993.
1994 Temporary position as agricultural adviser at Gørlev Sugar Factory, DANISCO A/S. February to July 1994.

- 1994 Temporary position as scientific technician at the Danish Environmental Protection Agency. August 1994 to December 1994.
- 1995 Research fellow at the RVAU, Section of Weed Science on the project "Modelling of herbicide use in Genetically modified herbicide resistant plants. 1. Content and input for models". January to May 1995.
- 1995 Maternal leave until October 1995.
- 1995 Research fellow at RVAU, Section of Weed Science on a continuation of the project "Modelling of herbicide use in Genetically modified herbicide resistant plants. 2. Model description and predictions". October 1995 to July 1997.
- 1997 Research fellow at RVAU, Section of Weed Science on the project: Collaborative research for the development of integrated weed management in maize and rice.
- 1998 Temporary position as associate professor in Crop Science
- 1999 Maternal leave until August.
- 1999 Associate Research professor at RVAU, Centre for Bioethics and Risk Assessment on the project: "Ethical perspectives on food biotechnology".

Teaching experiences:

- 1997-2001 Participated in teachings in Weed Science, Crop Science and Ethics in Agriculture at RVAU
- 1998-02 Supervisor of four graduate students.
- 1998 Training course organized by FAO "Meeting and training on risk analysis of HRCs and exotic plants". Brazil 19-22 May 1998.

Study visits:

- 1993 Southern Weed Science Laboratory i Stoneville Mississippi, USA (3 months).
- 1995 Visiting scientist at University of Western Australia, Perth, Australia, Department of Plant Sciences (5 months).

Publications:

A. Peer-reviewed journals:

- MADSEN KH AND JENSEN JE (1995) Weed control in glyphosate tolerant sugarbeets (*Beta vulgaris* L.): A comparison between glyphosate and currently used herbicides. *Weed Research* 35, 105-111.
- MADSEN KH, HEITHOLT JJ, DUKE SO, SMEDA R AND STREIBIG JC (1995) Photosynthetic parameters in glyphosate-treated sugarbeets (*Beta vulgaris* L.). *Weed Research* 35, 81-88.
- MADSEN KH, POULSEN GS, FREDSHAVN JR, JENSEN JE, STEEN P & STREIBIG JC (1998) A method to study competitive ability of hybrids between seabed (*Beta vulgaris* ssp. *maritima*) and transgenic glyphosate tolerant sugarbeet (*Beta vulgaris* ssp. *vulgaris*). *Acta Agriculturae Scandinavica, Section B, Soil and Plant Science* 48, 170-74.
- MADSEN KH, BLACKLOW WM, JENSEN JE & STREIBIG JC (1999) Simulation of herbicide use in transgenic herbicide tolerant oilseed rape. *Weed Research* 39, 95-106.
- MADSEN KH & STREIBIG JC (2000) Simulating weed management in glyphosate tolerant crops: Greenhouse and field studies. *Pesticide Management Science* 56, 340-344.
- OLOFDOTTER M, VALVERDE BE & MADSEN KH (2000) Herbicide resistant rice (*Oryza sativa* L.) in a global perspective: Implications for weed management. *Annals of Applied Biology* 137, 279-295.
- MADSEN KH & SANDØE P (2001) Herbicide resistant sugar beets - What is the problem? *Journal of Agricultural and Environmental Ethics*, 14 (2), 161-168.
- LASSEN J, MADSEN KH & SANDØE P (2002). Ethics and genetic engineering - lessons to be learned from GM foods. *Bioprocess Biosystems Engineering* 24 (5), Springer Verlag, 263-271.
- MADSEN KH, VALVERDE BE & JENSEN JE (2002) Risk assessment of herbicide resistant crops: A Latin American perspective using rice (*Oryza sativa*) as a model. *Weed Technology* 16 (1), 215-223.
- MADSEN KH, HOLM PB, LASSEN J & SANDØE P (2002) Ranking of genetically modified plants after familiarity. *Journal of Agricultural and Environmental Ethics* 15, 267-278.

B. Book chapters:

- MADSEN KH & POULSEN (1997) Inserted traits. In: G Kjellsson, V Simonsen and C Ammann eds. *Methods for Risk Assessment of Transgenic Plants . II. Pollination, GeneTransfer and Population Impacts*, Birkhäuser Verlag AG, Basel Schweiz, pp 203-219.
- JENSEN JE & MADSEN KH (1998) Herbicide resistance in weeds and crops. Chapter 14 in *Weed Science Compendium 1998 edition*. JE Jensen, JC Streibig & C Andreasen (eds) pp. 255-280.
- MADSEN KH, OLESEN A & SANDØE P (1999) Genetisk modificerede afgrøder (Genetically modified crops). In: KK Jensen and S Andersen, eds. *Bioetik (Bioethics)*. Rosinate Forlag A/S, København K, Denmark, pp. 169-76 (in Danish).
- MADSEN KH & SANDØE P (2002) Ethical aspects of biotechnology. *Encyclopedia of Pest Management*, Marcel Dekker Inc., pp. 250-53.
- GAMBORG C, MADSEN KH & SANDØE P (2002) Bæredygtighed – Den værdimæssige dagsorden for jordbrugets udvikling. In: (Jensen ES, Vejre H, Bügel SH og Emanuelsson J eds) *Visioner for fremtidens jordbrug*. Center for Økologi og Miljø, KVL, Gads Forlag, pp.13-32 (in Danish).

C. Proceedings:

- MADSEN KH, FREDSHAVN J, POULSEN GS AND BUCHTER-LARSEN A (1992) A risk assessment case study of glyphosate tolerant sugar beet (*Beta vulgaris* L.). In *Proceedings BRIDGE, First Sectoral Meeting on Biosafety, Wageningen Dec. 1992*. Abstracts, p. 37.
- MADSEN KH (1993) Weed control in glyphosate-tolerant sugarbeets (*Beta vulgaris* L.). In *WSSA abstracts, 1993 meeting of the Weed Science Society of America*, p. 16.
- MADSEN KH AND STREIBIG JC (1993) Screening of glyphosate tolerant sugar beets (*Beta vulgaris* L.).

- In: *Proceedings 8th EWRS (European Weed Research Society) Symposium Braunschweig 1993*, pp. 373-377.
- JENSEN JE, MADSEN KH, NIELSEN SØ AND STREIBIG JC (1994) Klorofyl-fluorescens - en hurtig metode til måling af herbicidens virkning. Nye resultater med aminosyrehæmmere (Chlorophyll fluorescence - a rapid method for quantification of herbicide effects. New results with amino acid inhibitors). *SP Rapport nr. 6 - 1994:11. Danske Planteværnskonference - Ukrudt* (11th Danish Plant Protection Conference), pp. 251-260.
- MADSEN KH, STREIBIG JC & JENSEN JE (1995) Herbicidresistente afgrøder - indflydelse på herbicidforbrug og miljømæssige konsekvenser (Herbicide resistant crops - Impact on herbicide use and environment). *SP Rapport nr. 3 - 1995, 12. Danske Planteværnskonference - Ukrudt* (12th Danish Plant Protection Conference - Weeds). Statens Planteavlsvforsøg, Lyngby Danmark. pp. 221-230.
- ANDREASEN C, JENSEN JE, MADSEN KH, POULSEN GS (1995) Herbicide resistance in weeds and crops in Denmark. *International Symposium on Weed and Crop Resistance to Herbicides*, Cordoba Spain 3-6 April 1995, p. 157.
- STREIBIG JC, MADSEN KH & POULSEN GS (1995) Herbicidresistente afgrøder - myter og/eller realiteter. In: Gensplejsede planter - regulering og anvendelse. Rapport fra et ekspertseminar marts 1995. *Teknologirådets rapporter 1996/1*, pp 81-87
- MADSEN KH, BLACKLOW WM & JENSEN JE (1996) Simulation of herbicide-use in a crop rotation with transgenic herbicide resistant sugarbeet. *Proceedings of the Second International Weed Control Congress*, 1387-1391.
- MADSEN KH & BLACKLOW WM (1996) Modelling of herbicide use in genetically modified herbicide resistant crops. In: JE Jensen ed. Short abstracts of papers presented at the workshop on "Computer Modelling in Weed Science" June 1996, p. 4.
- MADSEN KH & BLACKLOW WM (1997) Modelling of herbicide use in genetically modified herbicide resistant crops. In: JE Jensen ed. Dina workshop on "Computer Modelling in Weed Science" 29 June and 1 July 1996: Extended Abstracts, Dina Notat No. 62, 1997. Dina, pp. 10-11.
- MADSEN KH, JENSEN JE & STREIBIG JC (1997) Stiger pesticidforbruget ved dyrkning af herbicidresistente planter? Efterårskonference 1997 "Genteknologi i planteproduktion - muligheder og risici". Landbrugets Rådgivningscenter og Danmarks Jordbrugsforskning, pp. 8-9.
- OLOFSDOTTER M & MADSEN KH (1998) Can Herbicide resistant rice pose a threat to Asia? Conference on biodiversity and development, 2nd October 1998. Research Council for Development Research & Centre for Tropical Ecosystems Research (cenTER Aarhus), 95-96.
- MADSEN KH (1999) Socio-economic effects of herbicide resistant crops. Proceeding of Technical meeting on benefits and risks of transgenic herbicide resistant crops (abstract). Rome 16-18 November 1998.
- MADSEN KH, VALVERDE B & JE JENSEN (2000) Risk analysis of herbicide resistant crops: A Latin American perspective. In WSSA abstracts, 2000 meeting of the Weed Science Society of America Vol. 40, p. 86.
- SANDØE P, MADSEN KH & LASSEN J (2000) Praktisk håndtering af etiske kriterier. Hvordan kan forbrugernes etiske krav inddrages i godkendelsesprocedurer. Teknologirådet: Gensplejsede fødevarer - problemer og perspektiver. Udskrift af oplægsholderens manuskripter ved konferencen på Christiansborg d. 4. april 2000, 106-118 (in Danish).
- MADSEN KH & SANDØE P (2000) Herbicide resistant sugar beets - What is the problem? Book of preprints at EURSafe 2000 conference on agricultural and food ethics, August 2000. 193-197.
- MADSEN KH, HALDRUP C, JENSEN LS, KUDSK P & JENSEN PE (2001) Danske Erfaringer med genetisk modificerede herbicidresistente afgrøder. 18. Danske Planterværnskonference II, 145-155.
- SANDØE P, LASSEN J & MADSEN KH (2001) Etisk vurdering af genetisk modificerede afgrøder 18. Danske Planterværnskonference II, 107-119.
- SANDØE P, MADSEN KH & LASSEN J (2001) Ethics and Risk Perception – Whose Perspective? In: Programme abstracts from the conference: Food Chain 2001, Safe, sustainable, ethical, 14-16 March 2001 Uppsala, Sweden, 15-19.

- VALVERDE BE, MADSEN KH, STREIBIG JC & LABRADA R (2001) Assessment of Environmental hazards of Herbicide and Insect Resistant Crops - Preparation of Guidelines. Proceedings VALDOR Symposiet 10-14 juni, 2001 i Stockholm ed. K. Andersson, 132-141.
- SANDØE P, MADSEN KH & LASSEN J (2001) The ethical framework for risk assessment – the case of genetically modified crops. Proceedings VALDOR Symposiet 10-14 juni, 2001 i Stockholm ed. K. Andersson, 200-207.
- MADSEN KH, HOLM PB, LASSEN J & SANDØE P (2001) Ranking of genetically modified plants after familiarity. Preprints Eursafe 2001 congress 3-5 October 2001 in Florence, Italy, 299-302.

D. Journals without scientific review:

- MADSEN KH (1989) Tørken på Vestsjælland. Dyrker Nyt, Nr. 65 september 1989.
- MADSEN KH & OLESEN A (1997) Gensplejsede planter - Hvad skal vi med dem? Kronik i Berlingske Tidende den 9. januar 1997.
- OLESEN A & MADSEN KH (1998) Gensplejsning af planter - en omdiskuteret teknologi i hastig udvikling. MiljøKronikken, MiljøDanmark 12 (1). Miljøstyrelsen, 17-19.

E. Reports:

- MADSEN KH (1992) Prediktion af sukkerudbytte i Danmark. Skriftlig opgave i Statistik for Ph.D.studerende ved den Kgl. Veterinær og Landbohøjskole. 60 pp.
- MADSEN KH (1994) Weed management and impact on ecology of growing glyphosate tolerant sugarbeets (*Beta vulgaris* L.). Ph.D.-thesis from the Royal Veterinary and Agricultural University, Denmark, 62 pp.
- MADSEN KH, STREIBIG JC (1994) Genetisk modificerede herbicidtolerante planter - forbrug og miljømæssige konsekvenser. Miljøprojekt nr. 270. Rapport fra Miljøstyrelsen, 48 pp.
- MADSEN KH, POULSEN ER & STREIBIG JC (1997) Modelling of herbicide use in genetically modified herbicide resistant crops - 1. Content and Input for models. Environmental project No. 346, Ministry of Environment and Energy, Denmark, Danish Environmental Protection Agency, 65 pp.
- BJERREGAARD B, MADSEN KH & STREIBIG JC (1997) Herbicide-resistant crops and impact of their use. Environmental project No. 363, Ministry of Environment and Energy, Denmark, Danish Environmental Protection Agency, 49 pp.
- MADSEN KH & JENSEN JE (1998) Meeting and training on risk analysis of HRCs and exotic plants. Course material for UN Food and Agricultural Organization (FAO) in Piracicaba, Brazil 19-22 May 1998.
- MADSEN KH & STREIBIG JC (1999) Modelling of herbicide use in genetically modified herbicide resistant crops - 2. Environmental project No. 450 1999. Ministry of Environment and Energy, Danish Environmental Protection Agency, 59 pp.
- ANONYMOUS (2001) Draft of guidelines for assessment of ecological hazards of herbicide- and insect-resistant crops. Food and Agriculture Organization of the United Nations. Plant Protection Division, Rome (Udarbejdet i samarbejde mellem Kathrine H. Madsen Bernal E. Valverde and Jens C. Streibig), 18 pp.

E. Other publications:

- MADSEN KH (1999) Landbrugets Plantekultur, analyse af status og fremtidige behov. Den Kgl. Veterinær- og Landbohøjskole, Frederiksberg, Danmark. 34 pp.
- KJELLSSON G & MADSEN KH (1999) Sammenskrivning af kendte miljøeffekter ved pesticidanvendelsen: Effekter på floraen i dyrkede og udyrkede økosystemer. Udvalgsarbejde til vurdering af de samlede konsekvenser af en hel eller delvis afvikling af pesticidanvendelse, ”Bichel-udvalget”. Rapport til underudvalget om Miljø og sundhed.

- KJELLSSON G & MADSEN KH (1999) Bistand til udvalgsarbejde til vurdering af de samlede konsekvenser af en afvikling af pesticidforbruget: Vurdering af scenarier for pesticidanvendelsen. Udvalgsarbejde til vurdering af de samlede konsekvenser af en hel eller delvis afvikling af pesticidanvendelse "Bichel-udvalget". Rapport til underudvalget om Miljø og sundhed.
- HOLM PB, MADSEN KH, JØRGENSEN B & ULVSKOV P (1999) Sammenskrivning af eksisterende viden om mulighederne for at anvende genmodificerede afgrøder i jordbrugserhvervet. Udvalgsarbejde til vurdering af de samlede konsekvenser af en hel eller delvis afvikling af pesticidanvendelse "Bichel-udvalget". Rapport til underudvalget om Landbrug.

Publications in preparation:

Peer-reviewed journals:

- MADSEN KH, SANDØE P & LASSEN J (2001) Genetically modified crops: A US farmer's versus an EU citizen's point of view. *Acta Agriculturae Scandinavica*, in press.
- JENSEN JE, PEDERSEN J, VIDEBAEK T & MADSEN KH (2002) Assessment of sensitivity to glufosinate in weeds and volunteers. Under revision.
- JENSEN, KK, GAMBORG C, MADSEN KH, JØRGENSEN RB, VON KRAUSS MK, VOLKER AP & SANDØE P (2002) The normative foundation for risk assessment of GMOs: Making the "risk window" transparent. Will be submitted to *Environmental Biotech Research*.

B. Other:

- MADSEN KH & STREIBIG JC (2002) Benefits and risks of the use of herbicide-resistant crops. In: Ricardo Labrada (ed.) Addendum to Weed Management for Developing Countries. Food and Agricultural Organisation, United Nations, submitted.