

CURRICULUM VITAE

(Revised 28 July 2025)

Bo Melander

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- Education:** October 1987, M.Sc. Agr. at the Royal Veterinary and Agricultural University, Copenhagen (Appendix c)
- Date of Employment at the Danish Institute of Agricultural Sciences (DIAS):** 1st March 1988
- Previous and present employments:** 1988-94: Research assistant (DIAS)
1994-98: Researcher (DIAS)
1997-98: Head of Research Unit, *Non-chemical Weed Control* (DIAS)
1998-00: Senior scientist (DIAS)
2000-03: Head of Research Unit, *Weed Ecology* (DIAS)
2003-2010: Senior scientist (from 2007 Aarhus University (AU))
2011-2023: Associate Professor (AU)
2023 - : Full Professor (AU)
- Key Qualifications:** Expertise encompasses:
- Weed biology, particularly of annual and perennial grass weeds
 - Non-chemical weed control in conventional and organic field crops
 - The mechanisms and effects of mechanical and thermal weed control methods
 - Integrated solutions where direct physical methods are combined with preventive and cultural weed control tactics
 - Weed problems associated with non-inversion tillage systems, especially focussing on the control of annual and perennial grass weeds
 - Weed problems on hard surfaces in amenity areas
 - Botany and identification of plant species
 - Extensive knowledge of the Danish Flora of vascular plants in all terrestrial habitats
 - Data analyses
 - Project management
 - Supervision of PhD, master and bachelor students
 - Teaching

International societies and networks:

- a) European Weed Research Society (EWRS).
 - 1) EWRS working groups:
 - i. *Physical and Cultural Weed Control*, chairman from March 2002 – March 2014.
 - ii. *Weed Management Systems in Vegetables*, member
 - 2) Scientific Committee of EWRS from March 2002 – March 2014.
- b) International Weed Science society (IWSS)
- c) ENDURE (the European Network for the Durable Exploitation of Crop Protection) (<http://www.endure-network.eu/>), duration 2007-2010
- d) EU-Concerted Action (No AIR 3 - CT 93-1464) – Experience with the applicability of no-tillage crop production in the West-European countries, duration 1994-98

Editorial work:

Subject editor for *Weed Research*, Jan. 2004 – Jun. 2009

Reviewing:

Journal of Agricultural Engineering Research; Weed Research; Biological Agriculture and Horticulture; Crop Protection; Weed Science; Weed Technology; Journal of Agricultural Science; Agronomy; European Journal of Agronomy; Agriculture, Ecosystems and Environment; Pest Management Science

Invited speaker:

1. Keynote speaker (co-author) at the 12th EWRS Symposium, June 2002, Wageningen, the Netherlands
2. Invited speaker at 16 seminars in Australia and New Zealand Sep./Oct. 2002. Topics were: 1) The Danish Pesticide Policy; 2) The Development in Organic Farming in Denmark; 3) Physical Weed Control in Vegetables; and 4) Physical Weed Control in Cereals and Pulses
3. Invited keynote speaker at the North Central Weed Science Society Annual Meeting, 1-4 Dec. 2003, Louisville, Kentucky, USA
4. Invited speaker at the session on “Minor Crops” at the 4th International Weed Science Congress, 20-24 June 2004, Durban, South Africa
5. Keynote speaker at AFPP 3rd International conference on non-chemical weed control, 13-15 March 2006, Lille, France
6. Invited speaker at the CHANNEL conference, 5-7 April 2006, Budapest, Hungary
7. Invited keynote speaker at the 1st Conference on Novel and Sustainable Weed Management in Arid and Semi-Arid Agro-Ecosystems, 7-12 October 2007, Rehovot, Israel
8. Invited speaker at the Weed Science Society of America’s Annual Meeting, 6-9 February 2012, Hawaii, USA
9. Invited speaker at a seminar for growers, researchers and consultants at Neve Ya'ar Research Center, 9th April 2013, Ramat Yishay, Israel
10. Invited speaker at the ORC 2014 Organic Producers' Conference in Birmingham, 22-23 January, 2014

11. Invited speaker at the XXIX Brazilian Weed Science Conference, 1-4 September, 2014, Gramado, Brazil
12. Invited speaker at Northeast Mechanical Weed Control Expo, University of Maine Rogers Research Farm, USA, Thursday 12 September, 2019
13. Invited keynote speaker at the Symposium – Weed Management Innovations for Organic Systems. The 2019 ASA, CSSA and SSSA Annual Meeting in San Antonio, TX, USA, 12 November, 2019
14. Invited speaker at The 2019 EU Agricultural Outlook Conference – Sustainability from Farm to Fork, Bruxelles, Belgium, 10th December 2019
15. Invited speaker at the course *Advances in weed management for sustainable agriculture* coordinated by Centre for Advanced Mediterranean Agronomic Studies (CIHEAM) in Zaragoza, Spain, 30th March, 2022
16. Keynote speaker at 19th EWRS symposium, *Lighting the future of weed science*, Athens, Greece, 20-23 June, 2022.
17. Invited speaker at the Iowa State University Organic Ag Program, WEBINAR, 20 April 2023
18. Invited speaker at 23rd Annual Iowa Organic Conference, Memorial Union, University of Iowa, 27 November 2023

**Scientific
organiser of
international
meetings:**

- 1) The 4th workshop of the EWRS working group, Physical and Cultural Weed Control, March 2000, Elspeet, the Netherlands
- 2) The 12th EWRS Symposium Jun. 2002, Wageningen, the Netherlands
- 3) The 4th International Weed Science Congress, Durban 20-24 June 2004, South Africa
- 4) The 13th EWRS Symposium Jun. 2005, Bari, Italy
- 5) The 7th Workshop of the EWRS working group: *Physical and Cultural Weed Control* 12-14 March 2007, Salem, Germany
- 6) Session 3 at the 14th EWRS Symposium, 17-21 June 2007, Hamar, Norway
- 7) Session 5 at the International Conference: Novel and Sustainable Weed Management in Arid and Semi-Arid Agro Ecosystems 2007, Rehovot, Israel
- 8) Session 2, Integrated Weed Management, at the 5th International Weed Science Congress, 23-27 June 2008, Vancouver, Canada
- 9) The 8th Workshop of the EWRS working group: *Physical and Cultural Weed Control*, 9-11 March 2009, Zaragoza, Spain
- 10) Session 6, Non chemical tactics and strategies, at the 15th EWRS Symposium, 12-15 July 2010, Kaposvar, Hungary
- 11) The 9th Workshop of the EWRS working group: *Physical and Cultural Weed Control*, 28-30 March 2011, Samsun, Turkey
- 12) Session 11, Weed Management in Organic Farming, at the 6th International Weed Science Congress, 18-22 June 2012, Hangzhou, China
- 13) Session IV, Non-chemical Weed Management, at the 16th EWRS

- Symposium, 24-27 June 2013, Samsun, Turkey
- 14) Organising committee of NJF seminar 471, Uppsala 27-29 January 2014, Sweden
- 15) The 10th Workshop of the EWRS working group: *Physical and Cultural Weed Control*, 17-19 March 2014, SLU-Alnarp, Sweden

- Publications:**
- a) 62 papers published in peer-reviewed journals, 25 as first author (one currently as a submission).
 - b) 4 peer-reviewed book chapters, 3 as first author.
 - c) 98 international conference papers, abstracts and articles
 - d) 24 national conference papers and reports
 - e) 142 extension articles
 - f) 27 policy reports

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Citations and h-indexes: Source: Scopus, accessed 14 November 2025
Total no. of items: 63
Sum of citations: 2664
h-index: 29

Source: Web of Science, accessed 14 November 2025
Total no. of items: 64
Sum of citations: 2686
h-index: 28

Source: Google Scholar, accessed 14 November 2025
Total no. of items: 472
Sum of citations: 5242
h-index: 35
i10-index: 74

- Externally funded research projects since 2000**
- ¹2000-2004. Project leader of *Management of perennial weed species in organic farming* (MPW). DARCOF II No I.8 funded by the Danish Research Centre for Organic Farming. Budget 2,35 mill. DKK
 - ²2000-2004 Project partner of *Band heating for intra-row weed control*. DARCOF II No I.9 funded by the Danish Research Centre for Organic Farming. Budget 4,7 mill. DKK
 - ³2001-2003 Project partner of *Identification and destruction of intra-row weeds in row crops* funded by the Danish Ministry of Food, Agriculture and Fisheries (J. nr. 93S-2465-Å00-01147). Budget 0.25 mill. DKK for my part.
 - ⁴2002-2004. Project staff of *Crop dynamics, nitrogen management and*

economics of non-inversion tillage system funded by the Danish Ministry of Food, Agriculture and Fisheries for research (J. nr. 3412-07-01904). Budget 6 mill. DKK.

⁵2005-2007. Coordinator and project leader of *CleanRegion - Regional Collaboration for Minimising Pesticide Emissions in the Environment* funded by EU-INTERREG IIIC North (<http://www.interreg3c.net>). Budget 1,289,081 €

⁶2007-2010. Project leader of *Organic carrot production, better cropping with band steaming activating biological compounds* funded by the The Danish Food Industry Agency (J. nr. 3412-07-01904). Budget 3.8 mill. DKK

⁷2007-2010. Sub-activity leader of two case studies in the ENDURE Network of Excellence funded by the European Commission's Sixth Framework Programme (www.endure-network.eu). Project no. 031499

⁸2007-2011. Project leader of *Effective control of perennial weeds and intra-row weeds in organic cropping through novel technology and new management strategies* (WEEDS) funded by The Danish Research Centre for Organic Food and Farming (J. nr. 3304-FOJO-05-21). Budget 12 mill. DKK.

⁹2010-2012. Work package leader of *Integrated weed management in arable crops*. Miljøstyrelsens program for Bekæmpelsesmiddelforskning. Tilskud til forskningsprojekter 2010 – 2012. Total budget 3.55 mill. DKK

¹⁰2010-2012. Work package leader in *Integrated control of pests in outdoor vegetables*. Miljøstyrelsens program for Bekæmpelsesmiddelforskning. Tilskud til forskningsprojekter 2010 – 2012. Total budget 3.3 mill. DKK

¹¹2011-2015. Leader of task 4.2 in WP4 *IPM-solutions for important field vegetable crops*. Pesticide Use-and-risk Reduction in European farming systems with Integrated Pest Management (PURE) funded by the European Commission's Seventh Framework Programme. Grant agreement no: 265865. Total budget 12.4 mill. €.

¹²2011-2013. Project staff in *Higher productivity in Danish arable crop production* (HighCrop). Organic RDD 2011-2013 under GUDP (J.nr.: 3405-10-OP-00155). Total budget 18.2 mill. DKK.

¹³2012-2015. Project partner in *Effektiv kornproduksjon på husdyrløse økobruk gjennom bedre næringsforsyning og ugrasbekjempelse* (ØKOKORN). FFL (Fondet for forskningsavgift på



landbruksprodukter) og JAs (Forskningsmidler over jordbruksavtalen) FoU-midler for 2012 og utover. 0.2 mill. NOK received. Contact person Lars Olav Brandsæter NIBIO.

- ¹⁴2014-2017. Work package leader of WP1 in *Row cropping in organic arable farming for increased productivity and sustainability* (RowCrop). Organic RDD-2 under GUDP (J.nr.: 34009-13-0685). Total budget 20.3 mill. DKK.
- ¹⁵2014-2017. Project leader of *Nye værktøjer til mekanisk ukrudtsbekæmpelse* (New tool designs for mechanical weed control) (NEWCUT). In collaboration with Agro Intelligence. GUDP Center for Innovation (J.nr.: 34009-14-0789). Total budget 6.2 mill. DKK.
- ¹⁶2015-2018. Project leader of *Crop diversification and weeds* (PRODIVA). Six international partners. CORE Organic Plus / GUDP Center for Erhverv (J.nr.: 34009-14-0902). Total budget 0.89 mill €..
- ¹⁷2016-2018. Project partner of *Nyt intelligent lugeredskab til berøringsfri bekæmpelse af ukrudt i rækkeafgrøder* (A new intelligent tool for contactless control of weeds in row crops) (LUGEROBOT). In collaboration with Frank Poulsen Engineering. GUDP Center for Innovation (J.nr.: 34009-15-1013). Total budget 6.0 mill. DKK.
- ¹⁸2017-2022. Work package leader of WP2 the Innovation hub in IWMPRAISE (Horizon2020) grant agreement No 727321. Total budget 7.2 mill €.
- ¹⁹2017-2020. Project staff in *VINDERFRØ2025 Styrket konkurrenceevne i produktionen af kvalitetsfrø i græs og spinat* (Improved production of grass and spinach seeds). GUDP (J.nr.: 34009-16-1167). Total budget 15 mill. DKK.
- ²⁰2016-2020. Project partner of *New application method for slurry in growing crops* (NUGA). GUDP Center for Innovation (J.nr. 34009-16-1112). Total budget 7.6 mill. DKK.
- ²¹2020-2021. Project leader of *Nye løsninger til mekanisk ukrudtsbekæmpelse i kartofler* (New solutions for mechanical weed control in potatoes). Kartoffelafgiftsfonden. Total budget 0.57 mill. DKK.
- ²²2018-2021. Project partner in *Organic cropping of sugar beets*. GUDP Center for Innovation (J.nr. 34009-17-1294). Total budget 4.2 mill. DKK.

- ²³2020-2022. Project leader of *Øget dyrkningssikkerhed af quinoa* (Improved cropping of quinoa) (QUISACU). GUDP (J.nr.: 34009-19-1601). Total budget 2.4 mill. DKK.
- ²⁴2020-2023. Project partner in *Optimising climate and production services of cover crops in organic arable rotations* (CCRotate). Organic RDD5 under GUDP (J.nr.: 34009-19-1559). Total budget 6 mill. DKK.
- ²⁵2021-2022. Project leader of *Automated weeding in close proximity of crop plants*. Miljøstyrelsen (MST sagsnummer: 2021 - 3926). Total budget 0.370 mill. DKK.
- ²⁶2022-2024. Work package leader of WP1 in *Vækststandsning i kartofler* (Termination of potato growth) (TERMINATOR). GUDP (J.nr.: 34009-21-1924). Total budget 7.5 mill. DKK.
- ²⁷2022-2027. Project leader of *Automated adjustment of fodder and sugar beet stands* (CROPCUT). Organic RDD7 under GUDP (J.nr.: 34009-21-1885). Total budget 6.7 mill. DKK.
- ²⁸2022-2026. Project leader of the Danish contribution to *Building resilient organic weed management systems with precision smart sprayer technologies*. Overall project leader Steven Mirsky USDA, USDA-NIFA, GRANT13005541. The Danish budget is 0.346 mill. US\$ ~ 2.6 mill. DKK. (Funding orally confirmed but official papers are still pending).
- ²⁹2024-2027. Project leader of *Termisk ukrudtsbekæmpelse med damp, osmoseffekt og mikrobølger* - TERMOSE (Thermal weed control using steam, osmotic pressure and microwaves). GUDP (J.nr.: 34009-23-2134). Total budget 3.9 mill. DKK.
- ³⁰2025-2028. Work package leader of WP3 in *Grain Legume and Oilseed Rape integration in robust organic cropping systems* (GLORY). Organic RDD10 under GUDP (J.nr.: 34009-24-2292). Total budget 10.7 mill. DKK.
- ³¹2025-2028 (31/3). Work package leader of WP2 in *Vækststandsning af kartofler uden brug af pesticider* (Termination of potato growth) (GROWTHSTOP+). GUDP (J.nr.: 34009-24-2322). Total budget 15.7 mill. DKK.

Teaching and supervision

1. Courses

- a. Agrobotany (bachelor course), Aarhus University, 10 ECTS, 2009-12
- b. Organic farming (bachelor course), Aarhus University, 5 ECTS, 2010-
- c. Field crops (bachelor course), Aarhus University, 10 ECTS, 2010-
- d. Crop pests – biology and control (master course), Aarhus University, 15 ECTS, 2009-

- e. Organic production of fruits, berries and vegetables in a temperate climate (master course), Aarhus University, 10 ECTS, 2014-
- f. Eucaryotes | Algae, fungi and terrestrial plants (bachelor course), Aarhus University, 10 ECTS, 2014-
- g. Weed Science (master course), Royal Veterinary and Agricultural University, 2000-2002 Reference Prof. Jens C. Streibig.

2. Course and programme development

Powerpoint-slides and additional materials for exercises have been produced for the courses mentioned under point 1. Excursion sites have been selected and organised for course f.

3. Development of teaching materials

- a. Plant materials for plant identification were produced for every exercise in course a. Agrobotany
- b. Ascard J., Hatcher P.E., **Melander B.** & Upadhyaya M.K. (2007). *10 Thermal Weed Control*. Non-Chemical Weed Management: Principles, Concepts and Technology, (Editors: M.K. Upadhyaya & R. E. Blackshaw). CAB International (www.cabi.org), Wallingford (UK), 155-175.
- c. **Melander B.**, Liebman M., Davis A.S., Gallandt E.R., Bàrberi P., Moonen A.C., Rasmussen J., von der Weide R. & Vidotto F. (2017). *9 Non-Chemical Weed Management*. In: Weed Research. Expanding Horizons, (Editors: P.E. Hatcher & R. Froud-Williams). John Wiley & Sons Ltd, West Sussex (UK), 245-270.
- d. **Melander B.** & McCollough M.R. (2021). CH-11 *Advances in mechanical weed control technologies*. In: Advances in integrated weed management (edited by Per Kudsk). Burleigh Dodds Science Publishing (<https://bdspublishing.com/open-access/>), pp. 27; <http://dx.doi.org/10.19103/AS.2021.0098.11>
- e. Substantial contributions to editions 1, 2, 3, 4 and 5 of the Danish textbook *Ukrudtsbogen*. In the latest editions 4 and 5: first author of chapters 3 and 4 and co-author of chapter 2.

4. Supervision experience

- a. PhD theses
 - Rikke K. Jensen. Strategies for exhausting and controlling *Cirsium arvense* in organic farming. Royal Veterinary and Agricultural University. Co-supervisor, 2000-2002. Not completed
 - Marco Fontanelli. Soil steaming in combination with activating compounds for weed suppression in vegetables. Pisa University, Italy. Co-supervision, May 2008 – Aug 2008. Completed
 - Stephan Deike. Long-term productivity and environmental effects of arable farming as affected by crop rotation, soil tillage intensity and strategy of pesticide use: A case-study of two long-term field experiments in Germany and Denmark. Martin-Luther-University Halle-Wittenberg, Germany. Associate supervisor, Aug 2007- Sep 2007. Completed
 - Ananda Scherner. Weed seed germination in winter cereals under contrasting tillage systems. CAPES-grant from Brazil. Principal supervisor, 2014-2016. Completed
 - Khawar Jabran. Crop and weed growth in organic spring barley and spring wheat treated with an inter-row cultivator for weed control.

Eramus+ mobility traineeship. Completed
Muhammed Javaid Akhtar. Ecology, biology and management of *Vulpia myuros*. Co-supervisor, 2017-2020. Completed
Hossein Hazrati. Integrating targeted and untargeted mass spectrometry based metabolomics to elucidate the belowground plant-plant interactions. Co-supervisor, 2018-2021. Completed
Margaret R. McCollough. Intra-row weed management in wide-row organic crops. Principal supervisor, 2018-2022. Completed

b. Master & bachelor theses

Ebbo Dam. Weed control strategies in seeded onions (*Allium cepa* L.). Wageningen University, the Netherlands. Co-supervisor. Apr 2000 – Aug 2000.

Claus Østergaard. Distribution, biology and control of *Apera spica-venti* (L.) Beauv. Royal Veterinary and Agricultural University. Co-supervisor 1994.

Boris Lattanzi. Mechanical weed control. University of Perugia, Italy. Co-supervising Mar 2014 – August 2014.

Malene Theilgaard. Betydningen af afgrødediversitet for forekomsten af ukrudt i økologiske vårsædmarker. Hovedvejleder, Aarhus Universitet, februar 2016.

Andreas Bonnevie Andersen. Inter-row Hoeing with a new L-share in Winter Wheat - Effect of Share Size and Driving Speed on Selectivity. Medvejleder, Københavns Universitet, februar 2017.

Magdalena Lewandowska. Future development of weed management in Brazilian soya and maize production. Hovedvejleder, Aarhus Universitet, juni 2017.

Rikke Munksgaard Pedersen. Growth of perennial weeds in a long-term organic crop rotation experiment, Aarhus Universitet, juni 2019.

Anne Kirstine Heilskov Rasmussen. Mulighed for reduceret herbicidforbrug i CA-dyrkning. Aarhus Universitet, juni 2021.

Kristine Sofie Frese. Agroøkologisk ukrudtshåndtering under conservation agriculture (CA). Aarhus Universitet, juni 2022.

Leif Matzen. Diversified Crop Rotations for Weed Management. Ecological Impacts, Farmer Perspectives, and adoption Challenges in Northern Europe. Aarhus Universitet, juni 2025.

Katrin Bára Baatrup. Prospects for weed management in organic crop production systems with non-inversion. Aarhus Universitet, juni 2025.

5. Evaluation experience (examination)

- a. Agrobotany. Four hour written exam, Aarhus University, Jun 2009.
- b. PhD thesis, Daniel Hansson. Hot water weed control on hard surface areas. Swedish University of Agricultural Sciences, Sweden, May 2002.
- c. PhD thesis, Muhammad Yasin. Effect of reduced light, low oxygen and seed dormancy on germination and growth of some plants. University of Copenhagen, Department of Plant and Environmental Sciences, February 2017.
- d. Numerous essays in courses d. and e. and one report in course d. under point 3
- e. Examination in Crop pests – biology and control January 2022
- f. Evaluation of report (The role and dynamics of weed seed banks) by Asra Jamil in the course Environmental Management at Farm Level, June 2022

- Other scientific contributions:**
- a) Weed specialist consultant on a Danida-financed project in Eritrea
 - b) > 150 lectures at international and external national meetings, conferences, workshops, symposia and seminars
- Courses:**
- a) Universitetspædagogisk og Didaktisk Grundkursus for undervisere ved de nye uddannelser ved DJF (course in university pedagogics and didactics). See Appendix a.
 - b) Course in PhD supervision, 19-20 November 2014. See Appendix b.
 - c) Several internal statistical courses
- Patents**
- One patent application EP2213150A1 (Appendix d.)
- Committees**
- a) Representing The Danish Association of Botany in ‘Brugerrådet’ ‘Naturstyrelsen Storstrøm’
 - b) Adviser on the responsible conduct of research and freedom of research, representing Faculty of Technical Sciences, Aarhus University

LIST OF PUBLICATIONS

International papers in peer-reviewed journals and books

- ¹**Melander B.** (1994). Modelling the effects of *Elymus repens* (L.) Gould competition on yield of cereals, peas and oilseed rape. *Weed Research* 34, 99-108.
- ²**Melander B.** (1995). Impact of drilling date on *Apera spica-venti* L. and *Alopecurus myosuroides* Huds. in winter cereals. *Weed Research* 35, 157-166.
- ³**Melander B.** (1995). Pre-harvest assessments of *Elymus repens* (L.) Gould interference in five arable crops. *Acta Agriculturae Scandinavica, section B: Soil and Plant Science* 45, 188-196.
- ⁴**Melander B.** (1997). Optimization of the Adjustment of a Vertical Axis Rotary Brush Weeder for Intra-Row Weed Control in Row Crops. *Journal of Agricultural Engineering Research* 68, 39-50.
- ⁵**Melander B.** (1998). Interactions between soil cultivation in darkness, flaming, and brush weeding when used for in-row weed control in vegetables. *Biological Horticulture and Agriculture* 16, 1-14.
- ⁶**Melander B.** (2004). Non-Chemical Weed Control: New Directions in. In: *Encyclopedia of*

Plant and Crop Science (ed. Robert M. Goodman, University of Wisconsin), Marcel Dekker, Inc., New York USA, 3 pp. (www.dekker.com).

- ⁷**Melander B.** & Hartvig P. (1997). Yield responses of weed-free seeded onions [*Allium cepa* (L.)] to hoeing close to the row. *Crop Protection* 16, 687-691.
- ⁸**Melander B.** & Rasmussen K. (2000). Reducing intrarow weed numbers in row crops by means of a biennial cultivation system. *Weed Research* 40, 205-218.
- ⁹**Melander B.** & Rasmussen G. (2001). Effects of cultural methods and physical weed control on intrarow weed numbers, manual weeding and marketable yield in direct-sown leek and bulb onion. *Weed Research* 41, 491-508.
- ¹⁰**Melander B.**, Cirujeda A. & Jørgensen M.H. (2003). Effects of inter-row hoeing and fertiliser placement on weed growth and yield of winter wheat. *Weed Research* 43, 428-438.
- ¹¹**Melander B.** & Jørgensen M.H. (2005). Soil steaming to reduce intra-row weed seedling emergence. *Weed Research* 45, 202-211.
- ¹²**Melander B.**, Rasmussen I.A. & Barberi P. (2005). Integrating Physical and Cultural Methods of Weed Control – Examples from European Research. *Weed Science* 53, 369-381.
- ¹³**Melander B.**, Holst N., Jensen P.K., Hansen E.M. & Olesen J.E. (2008). *Apera spica-venti* population dynamics and impact on crop yield as affected by tillage, crop rotation, location and herbicide programmes. *Weed Research* 48, 48-57.
- ¹⁴**Melander B.**, Holst N., Grundy A.C., Kempenaar C, Riemens M.M., Verschwele A. & Hansson D. (2009). Weed occurrence on pavements in five North European towns. *Weed Research* 49, 516-525.
- ¹⁵**Melander B.** & Kristensen J.K (2011). Soil steaming effects on weed seedling emergence under the influence of soil type, soil moisture, soil structure and heat duration. *Annals of Applied Biology* 158, 194-203.
- ¹⁶**Melander B.**, Mathiassen S.K., Nørremark M., Kristensen E.F., Kristensen J.K. & Kristensen K. (2011). Physical destruction of the sprouting ability of *Elytrigia repens* rhizome buds. *Weed Research* 51, 469-477.
- ¹⁷**Melander B.**, Holst N., Rasmussen I.A. & Hansen P.K. (2012). Direct control of perennial weeds between crops – Implications for organic farming. *Crop Protection* 40, 36-42.
- ¹⁸**Melander B.**, Munier-Jolain N., Charles R., Wirth J., Schwarz J., van der Weide R., Bonin L., Jensen P.K. & Kudsk P. (2013). European Perspectives on the Adoption of Non-Chemical Weed Management in Reduced Tillage Systems for Arable Crops. *Weed Technology* 27, 231-240.

- ¹⁹**Melander B.**, Nørremark M. & Kristensen E.F. (2013). Combining mechanical rhizome removal and cover crops for *Elytrigia repens* control in organic barley systems. *Weed Research* 53, 461-469.
- ²⁰**Melander B.**, Lattanzi B. & Pannacci E. (2015). Intelligent versus non-intelligent mechanical intra-row weed control in transplanted onion and cabbage. *Crop Protection* 72, 1-8.
- ²¹**Melander B.**, Rasmussen I.A. & Olesen J.E. (2016). Incompatibility between fertility building measures and the management of perennial weeds in organic cropping systems. *Agriculture, Ecosystems and Environment* 220, 184-192.
- ²²**Melander B.**, Liebman M., Davis A.S., Gallandt E.R., Bàrberi P., Moonen A.C., Rasmussen J., von der Weide R. & Vidotto F. (2017). *9 Non-Chemical Weed Management*. In: *Weed Research. Expanding Horizons*, (Editors: P.E. Hatcher & R. Froud-Williams). John Wiley & Sons Ltd, West Sussex (UK), 245-270.
- ²³**Melander B.**, Jabran K., De Notaris C., Znova L., Green O. & Olesen J.E. (2018). Inter-row hoeing for weed control in organic spring cereals – influence of inter-row spacing and nitrogen rate. *European Journal of Agronomy* 101, 49-56.
- ²⁴**Melander B.**, Rasmussen I.A. & Olesen J.E. (2020). Legacy effects of leguminous green manure crops on the weed seed bank in organic crop rotations. *Agriculture, Ecosystems and Environment* 302, article number 107078.
- ²⁵**Melander B.** & McCollough M.R. (2020). Influence of intra-row cruciferous surrogate weed growth on crop yield in organic spring cereals. *Weed Research* 60, 464-474; doi: 10.1111/wre.12452
- ²⁶**Melander B.** & McCollough M.R. (2021). CH-11 *Advances in mechanical weed control technologies*. In: *Advances in integrated weed management* (edited by Per Kudsk). Burleigh Dodds Science Publishing (<https://bdspublishing.com/open-access/>), pp. 27; <http://dx.doi.org/10.19103/AS.2021.0098.11>
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