Curriculum Vitae Maj Jura Margareta Rundlöf

Born/person number: 19790504-2748
Nationality: Swedish citizen
Civil status: married, 2 children
Affiliation: Lund University, Department of Biology, Biodiversity, Lund, Sweden
Current address: University of California Davis, Department of Entomology and Nematology, Davis, CA 95616, USA
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Higher education qualification(s): December 2002, MSc in Environmental Science, Lund University.

Degree of Doctor: February 2011, PhD in Animal Ecology/Conservation Biology, Lund University, thesis title: "Biodiversity in agricultural landscapes: landscape and scale-dependent effects of organic farming", supervisor: Prof. Henrik G. Smith.

Postdoctoral positions: April 2008 - September 2010, with Prof. Riccardo Bommarco, Department of Ecology, Swedish University of Agricultural Sciences (SLU), in the CLOVER project, on pollination and biological control in clover seed production.

Qualification required for appointment as a docent: docent course completed in March 2014.

Present position: Since April 2012, position as researcher at Department of Biology, Lund University, 95 % research. Since September 2016, visiting International Career Grant (INCA) fellow at University of California Davis, Department of Entomology and Nematology, Davis, CA, USA

Previous positions and periods of appointment: December 2015 - May 2016, visiting INCA fellow at Department of Ecology, Evolution, and Behavior, University of Minnesota, Saint Paul, MN, USA. October 2010 - March 2012, position as researcher at Department of Ecology, Swedish University of Agricultural Sciences (SLU) in Uppsala, in the STEP project, on status and trends of European pollinators.

Deductible time: Twelve months of parental leave 2011-2012 and 2016 (children born September 2011 and May 2016).

Supervision: Completed PhD theses: Co-supervisor for Georg Andersson (2012) and Ola Lundin (2013). Ongoing PhD studies: Co-supervisor for Veronica Hederström, Lina Herbertsson and Sandra Lindström. Completed master and bachelor theses (17 during 2005-2016), most recent:

Andersson, A. 2016. Does clothianidin affect solitary bee foraging time and reproduction?
Wintermantel, D. 2015. The effect of field-level clothianidin exposure on the prevalence and loads of pathogenic and non-pathogenic microbes in bumblebees (*B. terrestris*).
Chen, S. 2015. Impacts of a neonicotinoid insecticide on bumble bee foraging behaviour and efficiency.
Bolin, V. 2014. Hur påverkas de vilda växternas pollination av närhet till permanenta betesmarker och komplexiteten i landskapet?
Eikestam, J. 2014. No effect from flower strips on early-season wild plant pollination.
Hallström, J. 2014. Effekten av blomremsor och landskapskomplexitet på solitära bin och getingar.
Hederström, V. 2014. Impacts of neonicotinoids on pollinators.
Jansson, J. 2014. Scanian bumble bee trends - positive, negative or neutral?
Seibel, K. 2014. Is pollination of wild plants affected by conservation measures for pollinators?
Yourstone, J. 2014. Does clothianidin affect cavity nesting solitary bees and wasps?
Bergström, L. 2010. Pollinator identity and pollination efficiency - red clover as a model system.

Teaching: Teaches at courses in environmental science, nature conservation and conservation biology, both in Swedish and English, at basic and advanced levels, predominantly at Lund University (LU) and SLU Uppsala. Teaches at and has organized a few PhD student courses, e.g. together with Klaus Birkhofer within the ClimBEco Research School, November 2012 and April 2015.

Management experience: PI in the VR-funded project DELETE (2015-2018). Project manager and coordinator in the national research projects Impacts of neonicotinoids on bees (2013-2014) and Clover (2008-2010) and in the EU-funded project STEP (2010-2014). Course assistant at the basic course in Environmental Science (2007).

Assignments: Review editor for Frontiers in Agroecology and Land Use Systems. Review assignments for: Agriculture, Ecosystem & Environment, Basic & Applied Ecology, Biological Conservation, Current Biology, Ecography, Ecology Letters, European Journal of Entomology, Journal of Applied Ecology, Nature, Nature Communications, Oikos, Proceedings B. PhD student representative in the Ecology Department Board (2006-2007). Member of the assessment committee for Casper I. Henriksen's PhD thesis, Department of Plant and Environmental Science, University of Copenhagen (August 2013). Expert collaborator in PolliClover, led by L. Havstad, BioForsk, Norway (2013-2017). Organiser of the Friday Biology Seminar series at Department of Biology, Lund University (2014-2015). Expert reviewer of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) Deliverable 3(a) *Thematic assessment of pollinators, pollination and food production* (2015). Member of the scientific group responsible for the EviEM systematic review on biodiversity and road verge management, led by R. Lindborg, Stockholm University (2015-2017).

Awards, grants and funding (>20 000 SEK)**:**

Swedish Research Council (Formas), project grant "Ensuring a sustainable supply of clover seeds - a fundamental issue for organic farming", 6.0 MSEK, 2015-2018 (co-applicant, PI: M. Larsson).

Swedish Research Council (VR), International Career Grant (INCA), grant for internationalisation and leadership development and the research project "DEveloping Landscape Ecotoxicology in Terrestrial Ecosystems (DELETE): Pesticide Exposure and Effects on Bees", 5.6 MSEK, 2015-2018.

BiodivERsA funded project ECODEAL "Enhancing biodiversity-based ecosystem services to crops through optimized densities of green infrastructure in agricultural landscapes", 2.5 MSEK (team part), 2015-2017 (team member, coordinator: Y. Clough).

Swedish Farmers' Foundation for Agricultural Research (SLF), project grant for continuing "Control of pest insects in clover seed production using biological methods", 1.8 MSEK, 2014-2016 (co-applicant, PI: O. Anderbrant).

Plant Link, collaboration grant between SLU Alnarp and Lund university for "Pollinators - how attractive is the colour, odour and shape of clover flowers?", 400 000 SEK, September 2013 (co-applicant, PI: A. Balkenius).

Carl Tryggers Foundation, project grant for "Do the new nicotine like pesticides impact the foraging ability of bumble bees?", 444 000 SEK, November 2012.

Royal Physiographic Society in Lund, grant for chemical analyses and travel costs, 144 808 SEK, November 2012.

Awarded a stipend from H.M. the King's 50 years fund, 85 000 SEK, May 2011.

SLU EkoForsk, project grant "Development of odor-based strategies to control seed-eating weevils in clover seed production", 1.5 MSEK, 2011-2013 (co-applicant, PI: Å. Lankinen).

Swedish Farmers' Foundation for Agricultural Research (SLF), project grant "Control of pest insects in clover seed production using biological methods", 1.5 MSEK, 2010-2013 (co-applicant, PI: O. Anderbrant).

Swedish Farmers' Foundation for Agricultural Research (SLF), project grant "Crop pollination", 2.1 MSEK, 2010-2014 (co-applicant, PI: R. Bommarco).

Royal Physiographic Society in Lund Grant, equipment, 25 000 SEK, November 2004.

Presentations at international conferences:

- Oral presentation (invited) "*Flowering crops – a tricky treat for bees*", the Royal Entomological Society International Symposium & National Science meeting, Ento '15, 2-4 September 2015, Trinity College, Dublin, Ireland.
- Poster "*A replicated landscape scale field study of effects on wild and managed bees of coating seeds with the neonicotinoid clothianidin in oilseed rape*", SETAC Europe 25th Annual Meeting, 3-7 May 2015, Barcelona, Spain.
- Oral presentation (invited) "*Agricultural landscapes for bee diversity and pollination services*", Entomological Society of America 62nd Annual Meeting, 16-19 November 2014, Portland, Oregon, USA.
- Oral presentation "*A replicated landscape scale field study of impacts of clothianidin seed dressing in oilseed rape on wild and managed bees*", joint meeting of the British Ecological Society, Biochemical Society and the Society for Experimental Biology on The impact of pesticides on bee health, 22-24 January 2014, London, UK.
- Oral presentation "*Pollination and seed predation in a landscape perspective: the red clover system*", EURECO – GfÖ, 15-19 September 2008, Leipzig, Germany.
- Poster "*Butterflies in agricultural landscapes: landscape and scale-dependent effects of organic farming*", Future of Butterflies in Europe II, 17-19 April 2008, Wageningen, The Netherlands.
- Oral presentation "*Organic farming and landscape context – scale-dependent effects on plants*", ECCB 1st European Congress of Conservation Biology, 23-26 August 2006, Eger, Hungary.
- Poster "*Meadows and pastures – grassland management and landscape effects on butterfly diversity*", 17th Annual Meeting of the Society for Conservation Biology, 28 June-2 July 2003, Duluth, USA.

Popular science activities (selected):

Electronic press release for Rundlöf et al. (2015) published online for *Nature* 22 April 2015, watch at: https://youtu.be/PPI-R43_B3k (English version) or https://youtu.be/GtrydjKgPCw (Swedish version).

Participated in "Debatt i Lund", an academic talk show where scientists debate hot topics with other experts and stakeholders, 9 April 2015, Lund.

Contributing to the Swedish film Bieffekten, on the multiple pressures affecting bees, which aired on national Swedish television Chanel 1 on 29 May 2014.

Presentation in the Lund university advent calendar, 7 December 2013, watch at: http://youtu.be/vJyRT4tsuS0

"Från humla till jordgubbe: om naturens mångfald och ekosystemets tjänster", inspiration day in natural sciences for teachers 29 October 2013, Lund.

Naturmorgon, Swedish National Radio, about "Humlor som tjuvar", 13 July 2013.

Ekosystemtjänster och pollinerarnas roll. Naturskyddsföreningens Biologisk mångfaldsträff på Getterön, 25-26 September 2010, Varberg.

Research station during the Carl von Linné 300 year anniversary, May 2007, Råshult & Stenbrohult.

Publications

Web of Science: 36 article and review publications, 1474 citations (1384 without self-citations), h-index 19; Google Scholar: 2571 citations, h-index 23 (2016-09-20).

Peer-reviewed journal articles:

42 Holzschuh, A., Dainese, M., González-Varo, J., Mudri-Stojnić, S., Riedinger, V., **Rundlöf, M.**, Scheper, J., Wickens, J., Wickens, V., Bommarco, R., Kleijn, D., Potts, S., Roberts, S., Smith, H.G., Vila, M., Vujić, A., Steffan-Dewenter, I. 2016. Mass-flowering crops dilute pollinator abundance in agricultural landscapes across Europe. Ecology Letters (accepted).

41 Sahlin, U., **Rundlöf, M.** 2016. Differences in the strengths of evidence matters in risk-risk trade-offs. Journal of Risk Research (accepted).

40 Woodcock, B., Heard, M., Jitlal, M., **Rundlöf, M.**, Bullock, J., Shore, R., Pywell, R. 2016. Replication, effect sizes and identifying the biological impacts of pesticides on bees under field conditions. Journal of Applied Ecology (accepted).

39 Ekroos, J., Ödman, A.M., Andersson, G.K.S., Birkhofer, K., Herbertsson, L., Klatt, B.K., Olsson, O., Olsson, P.A., Persson, A.S., Prentice, H., **Rundlöf, M.**, Smith, H.G. 2016. Sparing land for biodiversity at multiple spatial scales. Frontiers in Ecology and Evolution 3: 145.

38 Klatt, B.K., **Rundlöf, M.**, Smith, H.G. 2016. Maintaining the restriction on neonicotinoids in the European Union–benefits and risks to bees and pollination services. Frontiers in Ecology and Evolution 4: 4.

37 Lindström, S., Herbertsson, L., **Rundlöf, M.**, Smith, H.G., Bommarco, R. 2016. Large-scale pollination experiment demonstrates the importance of insect pollination in winter oilseed rape. Oecologia 180: 759-769.

36 Rader, R., Bartomeus, I., Garibaldi, L.A., Garratt, M.P.D., Howlett, B.G., Winfree, R., Cunningham, S.A., Mayfield, M.M., Arthur, A.D., Andersson, G.K.S., Bommarco, R., Brittain, C., Carvalheiro, L.G., Chacoff, N.P., Entling, M.H., Foully, B., Freitas, B.M., Gemmill-Herren, B., Chazoul, J., Griffin, S.R., Gross, C.L., Herbertsson, L., Herzog, F., Hipólito, J., Jaggar, S., Jauker, F., Klein, A.-M., Kleijn, D., Krishnan, S., Lemos, C.Q., Lindström, S.A.M., Mandelik, Y., Monteiro, V.M., Nelson, W., Nilsson, L., Pattemore, D.E., Pereira, N.O., Pisanty, G., Potts, S.G., Reemer, M., **Rundlöf, M.**, Sheffield, C.S., Scheper, J., Schüepp, C., Smith, H.G., Stanley, D.A., Stout, J.C., Szentgyörgyi, H., Taki, H., Vergara, C.H., Viana, B.F., Woyciechowski, M. 2016. Non-bee insects are important contributors to global crop pollination. Proceedings of the National Academy of Sciences 113: 146-151.

35 Birkhofer, K., Diehl, E., Andersson, J., Ekroos, J., Früh-Müller, A., Machnikowski, F., Mader, V.L., Nilsson, L., Sasaki, K., **Rundlöf, M.**, Wolters, V. & Smith, H.G. 2015. Ecosystem services - current challenges and opportunities for ecological research. Frontiers in Ecology and Evolution 2: 87.

34 Ekroos, J., Jakobsson, A., Wideen, J., Herbertsson, L., **Rundlöf, M.**, Smith, H.G. 2015. Effects of landscape composition and configuration on pollination in a native herb: a field experiment. Oecologia 179: 509-518.

33 Garibaldi, L.A., Bartomeus, I., Bommarco, R., Klein, A.M., Cunningham, S.A., Aizen, M.A., Boreux, V., Garratt, M.P.D., Carvalheiro, L.G., Kremen, C., Morales, C.L., Schüepp, C., Chacoff, N.P., Freitas, B.M., Gagic, V., Holzschuh, A., Klatt, B.K., Krewenka, K.M., Krishnan, S., Mayfield, M.M., Motzke, I., Otieno, M., Petersen, J., Potts, S.G., Ricketts, T.H., **Rundlöf, M.**, Sciligo, A., Sinu, P.A., Steffan_Dewenter, I., Taki, H., Tscharntke, T., Vergara, C.H., Viana, B.F., Woyciechowski, M. 2015. Trait matching of flower visitors and crops predicts fruit set better than trait diversity. Journal of Applied Ecology 52: 1436-1444.

32 Kleijn, D., Winfree, R., Bartomeus, I., Carvalheiro, L.G., Henry, M., Isaacs, R., Klein, A.-M., Kremen, C., M'Gonigle, L.K., Rader, R., Ricketts, T.H.-, Williams, N.M., Adamson, N.L., Ascher, J.S., Báldi, A., Batáry, P., Benjamin, F., Biesmeijer, J.C., Blitzer, E.J., Bommarco, R., Brand, M.R., Bretanolle, V., Button, L., Cariveau, D.P., Chifflet, R., Colville, J.F., Danforth, B.N., Elle, E., Garratt, M.P.D., Herzog, F., Holzschuh, A., Howlett, B.G., Jauker, F., Jha, S., Knop, E., Krewenka, K.M., La Féon, V., Mandelik, Y.,

May, E.A., Park, M.G., Pisanty, G., Reemer, M., Riedinger, V., Rollin, O., **Rundlöf, M.**, Sardiñas, H.S., Scheper, J., Sciligo, A.R., Smith, H.G., Steffan-Dewenter, I., Thorp, R., Tscharntke, T., Verhulst, J., Viana, B.F., Vaissière, B.E., Veldtman, R., Westphal, C., Potts, S.G. 2015. Delivery of crop pollination services is an insufficient argument for wild pollinator conservation. Nature Communications 6: 7414.

31 Lundin, O., **Rundlöf, M.**, Smith, H.G., Fries, I., Bommarco, R. 2015. Neonicotinoid insecticides and their impacts on bees: a systematic review of research approaches and identification of knowledge gaps. PLoS ONE 10(8): e0136928.

30 Nyabuga, F.N., Carrasco, D., Ranåker, L., Andersson, M.N., Birgersson, G., Larsson, M.C., Lundin, O., **Rundlöf, M.**, Svensson, G.P., Anderbrant, O., Lankinen, Å. 2015. Field abundance patterns and odor-mediated host choice by clover seed weevils, *Apion fulvipes* and *Apion trifolii* (Coleoptera: Apionidae). Journal of Economic Entomology 108: 492-503.

29 Persson, A.S., **Rundlöf, M.**, Clough, Y., Smith, H.G. 2015. Bumble bees show trait-dependent vunerability to landscape simplification. Biodiversity and Conservation 24: 3469-3489.

28 **Rundlöf, M.**, Andersson, G.K.S., Bommarco, R., Fries, I., Hederström, V., Herbertsson, L., Jonsson, O., Klatt, B.K., Pedersen, T.R., Yourstone, J. & Smith, H.G. 2015. Seed coating with a neonicotinoid insecticide negatively affects wild bees. Nature 521: 77-80.

27 Scheper, J., Bommarco, R., Holzschuh, A., Potts, S.G., Riedinger, V., Roberts, S.P.M., **Rundlöf, M.**, Smith, H.G., Steffan-Dewenter, I., Wickens, J.B., Wickens, V.J., Kleijn, D. 2015. Local and landscape-level floral resources explain effects of wildflower strips on wild bees across four European countries. Journal of Applied Ecology 52: 1165-1175.

26 Andersson, G.K.S., Ekroos, J., Stjernman, M., **Rundlöf, M.**, Smith, H.G. 2014. Effects of farming intensity, crop rotation and landscape heterogeneity on field bean pollination. Agriculture, Ecosystems & Environment 184:145-148.

25 Carvalheiro, LG, Biesmeijer, JC, Benadi, G, Fruend, J, Stang, M, Bartomeus, I, Kaiser-Bunbury, C, Baude, M, Gomes, S, Merckx, V, Baldock, K, Bennett, A, Boada, R, Bommarco, R, Cartar, R, Chacoff, N, Danhardt, J, Dicks, L, Ekroos, J, Henson, K, Holzschuh, A, Junker, R, Lopezaraiza-Mikel, M, Memmott, J, Montero-Castaño, A, Nelson, I, Petanidou, T, Power, E, **Rundlöf, M**, Smith, H, Stout, J, Temitope, K, Tscharntke, T, Tscheulin, T, Vila, M & Kunin, WE. 2014. The potential for indirect effects between co-flowering plants via shared pollinators depends on resource abundance, accessibility and relatedness. Ecology Letters 17: 1389-1399.

24 Ekroos, J., Olsson, O., **Rundlöf, M.**, Wätzold, F., Smith, H.G. 2014. Optimizing agri-environment schemes for biodiversity, ecosystem services or both? Biological Conservation 172:65-71.

23 Riedinger, V., Renner, M., **Rundlöf, M.**, Steffan-Dewenter, I., Holzschuh, A. 2014. Early mass-flowering crops mitigate pollinator dilution in late-flowering crops. Landscape Ecology 29:425-435.

22 **Rundlöf, M.**, Persson, A.S., Smith, H.G. & Bommarco, R. 2014. Late-season mass-flowering red clover increases bumble bee queen and male densities. Biological Conservation 172:138-145.

21 Andersson, G.K.S., Birkhofer, K., **Rundlöf, M.**, Smith, H.G. 2013. Landscape heterogeneity and farming practice alter the species composition and taxonomic breadth of pollinator communities. Basic and Applied Ecology 14:540-546.

20 Ekroos, J., **Rundlöf, M.**, Smith, H.G. 2013. Trait-dependent responses of flower-visiting insects to distance to semi-natural grasslands and landscape heterogeneity. Landscape Ecology 28:1283-1292.

19 Garibaldi, L.A., Steffan-Dewenter, I., Winfree, R., Aizen, M.A., Bommarco, R., Cunningham, S.A., Kremen, C., Carvalheiro, L.G., Harder, L.D., Afik, O., Bartomeus, I., Benjamin, F., Boreux, V., Cariveau, D., Chacoff, N.P., Dudenhöffer, J.H., Freitas, B.M., Chazoul, J., Greenleaf, S., Hipólito, J., Holzschuh, A., Howlett, B., Isaacs, R., Javorek, S.K., Kennedy, C.M., Krewenka, K., Krishnan, S., Mandelik, Y., Mayfield, M.M., Motzke, I., Munyuli, T., Nault, B.A., Otieno, M., Petersen, J., Pisanty, G., Potts, S.G., Rader, R., Ricketts, T.H., **Rundlöf, M.**, Seymour, C.L., Schüepp, C., Szentgyörgyi, H., Taki, H., Tscharntke, T., Vergara, C.H., Viana, B.F., Wanger, T.C., Westphal, C., Williams, N., Klein, A.M. 2013. Wild pollinators enhance fruit set of crops regardless of honey-bee abundance. Science 339:1608-1611.

18 Kennedy, C.M., Lonsdorf, E., Neel, M.C., Williams, N.M., Ricketts, T.H., Winfree, R., Bommarco, R., Brittain, C., Burley, A.L., Cariveau, D., Carvalheiro, L.G., Chacoff, N.P., Cunningham, S.A., Danforth, B.N., Dudenhöffer, J.-H., Elle, E., Gaines, H.R., Gratton, C., Garibaldi, L.A., Holzschuh, A., Isaacs, R., Javorek, S.K., Jha, S., Klein, A.M., Krewenka, K., Mandelik, Y., Mayfield, M.M., Morandin, L., Neame, L.A., Otieno, M., Park, M., Potts, S.G., **Rundlöf, M.**, Saez, A., Steffan-Dewenter, I., Taki, H., Felipe Viana, B., Veldtman, R., Westphal, C., Wilson, J.K., Greenleaf, S.S., Kremen, C. 2013. A global quantitative synthesis of local and landscape effects on native bee pollinators in agroecosystems. Ecology Letters 16:584-599.

17 Lundin, O., Smith, H.G., **Rundlöf, M.**, Bommarco, R. 2013. When ecosystem services interact: crop pollination benefits depend on the level of pest control. Proceedings of the Royal Society B. Biological Sciences 280: 20122243.

16 Scheper, J., Holzschuh, A., Kuusaari, M., Potts, S.G., **Rundlöf, M.**, Smith, H.G., Kleijn, D. 2013. Environmental factors driving effectiveness of European agri-environmental measures in mitigating pollinator loss - a meta-analysis. Ecology Letters 16:912-920.

15 Andersson, G.K.S., **Rundlöf, M.,** Smith, H.G. 2012. Organic farming improves pollination success in strawberries. PLoS ONE 7:e31599.

14 Andersson, M.N., Larsson, M.C., Svensson, G.P., Birgersson, G., **Rundlöf, M.**, Lundin, O., Lankinen, Å., Anderbrant, O. 2012. Characterization of olfactory sensory neurons in the white clover seed weevil, *Apion fulvipes* (Coleoptera: Apionidae). Journal of Insect Physiology 58:1325-1333.

13 Bommarco, R., Lundin, O., Smith, H.G., **Rundlöf, M.** 2012. Drastic historic shifts in bumble bee community composition in Sweden. Proceedings of the Royal Society B. Biological Sciences 279:309-315.

12 Caballero-Lopéz, B., Bommarco, R., Blanco-Morenao, J.M., Sans, F.X., Pujade-Villar, J., **Rundlöf, M.**, Smith, H.G. 2013. Aphids and their natural enemies are differently affected by habitat factors at local and landscape scales. Biological Control 63:222-229.

11 Lundin, O., **Rundlöf, M.**, Smith, H.G., Bommarco, R. 2012. Towards integrated pest management in red clover seed production. Journal of Economic Entomology 105:1620-1628.

10 Jonason, D., Andersson, G.K.S., Öckinger, E., **Rundlöf, M.**, Smith, H.G., Bengtsson, J. 2011. Assessing the effect of the time since transition to organic farming on plants and butterflies. Journal of Applied Ecology 48:543-550.

9 Kleijn, D., **Rundlöf, M.**, Scheper, J., Smith, H.G., Tscharntke, T. 2011. Does conservation on farmland contribute to halting the biodiversity decline? Trends in Ecology and Evolution 26:474-481.

8 **Rundlöf, M.**, Edlund, M., Smith, H.G. 2010. Organic farming at local and landscape scales benefits plant diversity. Ecography 33:514-522.

7 Dänhardt, J., Green, M., Lindström, Å., **Rundlöf, M.**, Smith, H.G. 2010. Farmland as stopover habitat for migrating birds – effects of organic farming and landscape structure. Oikos 119:1114-1125.

6 Persson, A.S., Olsson, O., **Rundlöf, M.**, Smith, H.G. 2010. Land use intensity and landscape complexity - Analysis of landscape characteristics in an agricultural region in Southern Sweden. Agriculture, Ecosystems and Environment 136:169-176.

5 Smith, H.G., Dänhardt, J., Lindström, Å., **Rundlöf, M.** 2010. Consequences of organic farming and landscape heterogeneity for species richness and abundance of farmland birds. Oecologia 162:1071-1079.

4 Öckinger, E., Franzén, M., **Rundlöf, M.**, Smith, H.G. 2009. Mobility-dependent effects on species richness in fragmented landscapes. Basic and Applied Ecology 10:573-578.

3 **Rundlöf, M.**, Nilsson, H., Smith, H.G. 2008. Interacting effects of farming practice and landscape context on bumble bees. Biological Conservation 141:417-426.

2 **Rundlöf, M.**, Bengtsson, J., Smith, H.G. 2008. Local and landscape effects of organic farming on butterfly species richness and abundance. Journal of Applied Ecology 45:813-820.

1 **Rundlöf, M.**, Smith, H.G. 2006. The effect of organic farming on butterfly diversity depends on landscape context. Journal of Applied Ecology 43:1121-1127.

Peer-reviewed conference contributions:

Andersson, G.K.S., **Rundlöf, M.**, Smith, H.G. 2010. Time lags in biodiversity response to farming practices. Aspects of Applied Biology 100:381-384.

Smith, H.G., Öckinger, E. **Rundlöf, M.** 2010. Biodiversity and the landscape ecology of agri-environment schemes. Aspects of Applied Biology 100:225-232.

Books and book chapters:

Potts S., Biesmeijer K., Bommarco R., Breeze T., Carvalheiro L., Franzén M., González-Varo J.P., Holzschuh A., Kleijn D., Klein A.-M., Kunin, B., Lecocq T., Lundin O., Michez D., Neumann P., Nieto A., Penev L., Rasmont P., Ratamäki O., Riedinger V., Roberts S.P.M., **Rundlöf M.**, Scheper J., Sørensen P., Steffan-Dewenter I., Stoev P., Vilà M., Schweiger O. 2015. Status and trends of European pollinators. Key findings of the STEP project. Pensoft Publishers, Sofia, 72 pp.

Smith, H.G., Birkhofer, K., Clough, Y., Ekroos, J., Olsson, O. & **Rundlöf, M.** 2014. Beyond dispersal: the role of animal movement in modern agricultural landscapes. Page 62-87 in: Hansson, L.-A. & Åkesson, S. (eds.) Animal movement across scales. Oxford University Press, Oxford.

Popular science articles:

Rundlöf, M. 2014. Svenska humletrender. Biodiverse 19:18-19.

Andersson, G., Dänhardt, J., Ekroos, J., Herbertsson, L., Persson, A., Rundlöf, M. & Smith, H.G. 2013. Glöm inte vildbina. Skånes Fria Tidning, 11 maj 2013.

Andersson, G., Dänhardt, J., Ekroos, J., Herbertsson, L., Persson, A., Rundlöf, M. & Smith, H.G. 2013. Massdöd av bin hotar jordbruket. GP, 5 maj 2013.

Herbertsson, L., Andersson, G., Dänhardt, J., Ekroos, J., Lindström, S., Persson, A., Rundlöf, M. & Smith, H.G. 2013. I kväll när jordgubbarna plockas fram, skänk en tanke till de bin och flugor som gjort det möjligt. Sydsvenskan, 21 juni 2013.

Lankinen, Å., Anderbrant, O., Andersson, M.N., Birgersson, G., Larsson, M.C., Lundin, O., Rundlöf, M. & Svensson, G.P. 2012. Bekämpning av klöverspetsvivlar i klöverfröodlingar: Ny forskning tar hjälp av insekters kemiska doftspråk. Svensk Frötidning 2: 32-34.

Rundlöf, M. 2012. Humlor pollinerar rödklöver och rödklöver ger fler humlor! Ekovallfröodling, 4.

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