

## SIGMEA – List of publications

### Refereed papers

- Allnutt T. R., Dwyer M. McMillan, J., Henry C., Langrell S.. (2008) Sampling and Modelling for Quantification of Field GM Geneflow. *Journal of Agricultural and Food Chemistry*.56 (9), 3232-3237.
- Ammitzbøll HA, Jørgensen RB (2006) Hybridization between oilseed rape (*Brassica napus*) and different populations and species of *Raphanus*. *Environmental Biosafety Research* 5, 3-13
- Ammitzbøll HA, Mikkelsen T, Jørgensen RB 2005. Environmental effects of transgene expression on hybrid fitness – a case study on oilseed rape. *Environmental Biosafety Research* 4, 3-12
- Andersen NS, Siegismund HR, Jørgensen RB (2005) Low level of gene flow from cultivated beets (*Beta vulgaris* L. ssp. *vulgaris*) into Danish populations of sea beet (*Beta vulgaris* L. ssp. *maritima* (L.) Arcangeli). *Molecular Ecology* 14, 1391-1405 (Risø)
- Bannert M, Stamp P (2007) Cross-pollination of maize at long distance. *European Journal of Agronomy* 27, 44-51
- Bannert, M., Vogler A., Stamp P. (2008) Short-distance cross-pollination of maize in a small field landscape monitored by grain color marker. *European Journal of Agronomy*, 29:29-32.
- Bartsch, D., Bigler, F., Castanera, P., Gathmann, A., Gielkens, M., Hartley, S., Lheureux, K., Renckens, S., Schiemann, J., Sweet, J., Wilhelm, R. (2006) Concepts for General Surveillance of Genetically Modified (GM) Plants: The EFSA position. *Journal für Verbraucherschutz und Lebensmittelsicherheit. Journal of Consumer Protection and Food Safety*), Volume 1, Supplement 1, p. 15-20
- Bartsch, D., Gathmann, A., Hartley, S., Hendriksen, N.B., Hails, R., Lheureux, K., Kiss, J., Mesdagh, S., Neemann, G., Perry, J. Renckens, S., Schiemann, J., Sweet. (2007) First EFSA experiences with monitoring plans. *Journal für Verbraucherschutz und Lebensmittelsicherheit. Journal of Consumer Protection and Food Safety*, 2 (2007) Supplement 1:33-36
- Begg GS, Cullen, DW, Iannetta PPM, Squire GR (2007) Sources of uncertainty in the quantification of genetically modified oilseed rape contamination in seed lots. *Transgenic Research* 16, 51-63, doi:10.1007/s11248-006-9029-z
- Begg GS, Hockaday S, McNicol JW, Askew M, Squire GR (2006) Modelling the persistence of volunteer oilseed rape (*Brassica napus*). *Ecological Modelling* 198, 195-207, doi:10.1016/j.ecolmodel.2006.04.025
- Begg GS, Elliott MJ, Cullen DW, Iannetta PPM, Squire GR (2008) Heterogeneity in the distribution of genetically modified and conventional oilseed rape within fields and seed lots. *Transgenic Research*, doi:10.1007/s11248-008-9166-7
- Bitocchi E., Nanni L., Giardini A., Buonamici A., Vendramin G.G., Papa R. (2009) Introgression from modern hybrid varieties to landrace populations of maize (*Zea mays* ssp. *mays* L.) in central Italy. *Molecular Ecology*, 18:603-621.
- Bohanec, M., Messéan, A., Scatosta, S., Angevin, F., Žnidaršič, M., Džeroski, S. (2008) A qualitative multi-attribute model for economic and ecological assessment of genetically modified crops, *Ecol. Model.*, 215, 247-261 (doi:10.1016/j.ecolmodel.2008.02.016)

- Bohanec, M., Džeroski, S., Žnidaršič, M., Messéan, A., Scatasta, S., Wesseler, J. (2004) Multi-attribute modelling of economic and ecological impacts of cropping systems, *Informatica* 28, 387–392,
- Breckling, B. & Reuter, H. (2006). General Surveillance of Genetically Modified Organisms - the Importance of Expected and Unexpected Environmental Effects. *Journal for Consumer Protection and Food Safety* Supplement 1, 72 - 74
- Breckling, B. & Reuter, H. (2007). Analysis of neighbourhood relations: Steps from the local scale to the regional scale. *Journal for Consumer Protection and Food Safety*. Vol.2 Supplement 1, 59-61 DOI: 10.1007/s00003-007-0293-5
- Castellazzi, M.S., Perry, J.N., Colbach, N., Monod, H., Adamczyk, K., Viaud, V. & Conrad, K.F. (2007) New measures and tests of temporal and spatial pattern of crops in agricultural landscapes. *Agriculture, Ecosystems & Environment*, 118, 339-349. doi:10.1016/j.agee.2006.06.003
- Castellazzi M.S., Wood G.A., Burgess P.J., Morris J., Conrad K.F. & Perry J.N.(2008) . A systematic representation of crop rotation. *Agricultural Systems*. Vol 97, Issues 1-2, April 2008, 26-33.
- Chueca MC, Loureiro I, Escorial MC (2005) Cultivos tolerantes a herbicidas. Riesgo de desarrollo de malas hierbas resistentes. *Phytoma* 173:128-130.
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- Colbach N., Fargue A., Sausse C. Angevin F., (2005) Evaluation and use of a spatio-temporel model of cropping system effects on gene flow. Example of the GeneSys model applied to three co-existing herbicide tolerance transgenes, *European Journal of Agronomy*, 22, 417 - 440.
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- Debeljak M., Squire G.R., Demšar D., Young M.W. and Džeroski S. (2008). Relations between the oilseed rape volunteer seedbank, and soil factors, weed functional groups and geographical location in the UK *Ecological Modelling*, Volume 212, Issues 1-2, 24 March 2008, Pages 138-146
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- Díaz-Mendoza, M., Farinós, G.P., Castañera, P., Hernández-Crespo, P. and Ortego, F. (2007). Proteolytic processing of native Cry1Ab toxin by midgut extracts and purified trypsins from the Mediterranean corn borer *Sesamia nonagrioides*. *Journal of Insect Physiology* 53, 428-435
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- Gómez-Barbero, M., Berbel, J. and Rodríguez-Cerezo, E. (2008). Bt corn in Spain-The performance of the EU's first GM crop. *Nature Biotechnology* vol. 26, pp 384-386.
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- Ivanovska Aneta, Colbach Nathalie, Debeljak Marko, Džeroski Sašo. (2008) A methodology for studying the feasibility of co-existence between conventional and GM crops: Using machine learning to analyze the output of simulation models. *Ecological Modeling Journal*. 215, 262-271

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- Jørgensen T, Hauser TP, Jørgensen RB (2007) Adventitious presence of other varieties in oilseed rape (*Brassica napus*) from seed banks and certified seed. *Seed Science Research* 17, 115–125
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- Pivard S., Demšar D., Lecomte J., Debeljak M. and Džeroski. S. 2008. Characterizing the presence of oilseed rape feral populations on field margins using machine learning. *Ecological Modelling, Volume 212, Issues 1-2, 24 March 2008, Pages 147-154*
- Pla M, La Paz JL, Peñas G, García N, Palauelmàs M, Esteve T, Messeguer J, Melé E (2006) Assessment of real-time PCR based methods for quantification of pollen-mediated gene flow from GM to conventional maize in a field study. *Transgenic Research* 15:219–228
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- Richter, O., (2008). Modelling dispersal of populations and genetic information by finite element methods. *Environmental Modelling & Software* 23: 206-214
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Sweet J. B. (2006) General Surveillance for unanticipated effects of GM crops: the use of existing monitoring and surveillance networks. *OILB Bulletin* 29 (5) 173-175 (NIAB)

Van de Wiel, C.C.M. & Lotz L.A.P. (2006) Out-crossing and coexistence of genetically modified with (genetically) unmodified crops: a case study of the situation in the Netherlands. *NJAS Wageningen Journal of the Life Sciences* 54: 17-35.

Vassen A, Gathmann G, Bartsch D (2006) Public GMO location register in Germany for supporting national surveillance measures. *Journal für Verbraucherschutz und Lebensmittelsicherheit. Journal of Consumer Protection and Food Safety*, Volume 1, Supplement 1, p. 60-63.

Viaud V., Monod H., Lavigne C., Angevin F., Adamczyk K., 2008. Spatial sensitivity of maize gene-flow from genetically modified to conventional varieties to landscape pattern: a simulation approach. *Landscape Ecology*, Volume 23, Issue 9, 1067-1079

### **Refereed papers submitted or in preparation**

T. R. Allnutt et al. (2008). Pre-validation study of an on-site RT-PCR assay for MON810 using the Cepheid Smartcycler II instrument. (In preparation for JAOAC).

Andersen N.S., Poulsen G., Andersen B.A., Kiær L.P., D'Hertefeldt T., Wilkinson M.J., Jørgensen R.B. (submitted). Processes affecting genetic structure and conservation - a case study of wild and cultivated *Brassica rapa*. *Molecular Ecology*

Andersen N.S., Andersen B.A., Rasmussen J., Jørgensen R.B. (in prep) High levels of impurities in today's certified winter oilseed rape varieties. *Plant Breeding*, to be submitted in October 2007

Andersen N.S., Andersen B.A., Rasmussen J., Jørgensen R.B. (in prep) Volunteer frequency of oilseed rape in organic oilseed rape fields – agricultural practice matters.

Begg GS, Elliott MJ, Copeland J, Squire GR (in prep) Persistence and the cost of withdrawing from the production of genetically modified oilseed rape.

Bown JL, Bond J, Eberst AR, Crawford JW, Illian JB, Johnstone C, Squire GR. (submitted) Gene flow affects germination and dormancy of progeny from simulated feral oilseed rape populations.

Bown JL, Eberst E, Crawford JW, Johnstone C, Wang J, Squire GR. (submitted) Linking intra and inter-plot gene flow.

Cullen DW, Squire GR, McNicol JW, Jacobs JH, Osborne JL, Ford L, Ramsay G, Scrimgeour C, Young MW. (in prep) Development and validation of Gas Chromatography and Real-time quantitative PCR for the quantification of landscape-scale gene flow from varieties of high erucic acid (HEAR) oilseed rape.

David, O., Garnier, A., Laredo, C., Lecomte, J., (accepted). Estimation of plant demographic parameters from stage-abundance data. *Journal of the Science of Food and Agriculture*, doi. 10.1002/jsfa.3340.

de Redon, L., Garnier, A., Dreuillaux, J.-M., Haïcour, R., Lecomte, J., Ricroch, A. (submitted). Effects of herbicide spraying and mowing on plant diversity of field margins in an open field landscape

Farinós, G.P., de la Poza, M. Hernández-Crespo, P., Ortego, F., and Castañera, P. (submitted). Diversity and seasonal phenology of the aboveground arthropods in conventional and transgenic maize crops of Central Spain. *Biological Control*

Garnier, A., David, O., Deville, A., Lecomte, J., Laredo, C. (in preparation). Estimation of demographic parameters for populations with immigration and incomplete observations, feral oilseed rape as a case study

Gómez-Barbero, M., Ceudar N., Berbel, J. and Rodríguez-Cerezo, E. (in preparation). Potential adoption of GM crops in the EU under different coexistence scenarios.

Gómez-Barbero, M. & E. Rodríguez-Cerezo. E. (submitted). Economic consequences of coexistence between GM and non-GM crops. *AgBioForum*.

Gruber S, Lutman PJW Squire G *et al.* (in prep). An overview of the effects of cultural practices on the biology and persistence of volunteer oilseed rape, in the context of co-existence between GM and conventional crops.)

Gruber S, Emrich K, Claupein W (submitted). Management der Bodensamenbank von Raps durch Bodenbearbeitung und Genotypenwahl – Bilanz von drei Projektjahren. *Die Bodenkultur*

Gruber, S., Emrich, K., Claupein, W. (submitted). Classification of oilseed rape varieties by secondary dormancy. *Weed Research*

Hooftman D.A.P., Jørgensen R.B., Østergård H., (in review). An empirical demographic model estimating reciprocal transgene introgression among oilseed rape and *Brassica rapa*. *Ecological Modelling*

Hooftman D.A.P., Jørgensen R.B., Østergård H., In preparation. Modelling the introgression of transgenes in hybrids between *Brassica napus* and *B. rapa* in agricultural landscapes: a sensitivity analysis of the IntGene model

Jørgensen T, Hauser TP & Jørgensen RB. Adventitious presence of other varieties in oilseed rape (*Brassica napus*) from seed banks and certified seed. *Agricultural Systems* (submitted).

Lécroart B., Le Bail M., Messéan A. (submitted) Effect of the structural variables of landscapes on spatial dissemination risks between GM and non GM maize. *European Journal of Agronomy*

Lipsius, K., Sabellek, K., Richter, O., Wilhelm, R., Modelling cross-fertilization rates in maize with explicit integration of in-field flowering heterogeneity. *Paper submitted to Environ. Biosafety Re.*

Middelhoff, U.; Reuter, H. & Breckling, B. (submitted). Integrating transgene persistence and dispersal for oilseed rape- The model GeneTraMP as an approach for risk evaluation and indication.

Papazova, N., Taverniers, I., Van Bockstaele, E. and De Loose, M.. Sugar beet seed architecture and genetics - influence on the DNA based GM quantification. Submitted to the *Journal of Agricultural and Fisheries Research*.

Reuter, H.; Schmidt, G.; Schröder, W.; Middelhoff, U.; Pehlke, H. & Breckling, B. (submitted).

Regional distribution of GMOs – Up-Scaling dispersal and persistence of Herbicide Resistant Oilseed Rape (*Brassica napus*).

Reuter, H.; Menzel, G.; Pehlke, G. & Breckling, B. (submitted). Hazard Mitigation or Mitigation Hazard? Would genetically modified dwarfed oilseed rape (*Brassica napus* L.) increase feral survival?

Robson P.R.H., Kelly, R. Jensen, E.S. Leitch, M., Jenkins G., Giddings G., Donnison, I.S., Thomas H. (in prep). A flexible semi-quantitative methodology for the analysis of gene flow between conventionally bred populations using microsatellite markers.

Squire, Reuter, Breckling, Jorgensen, Lecomte, Pivard, Dietz-Pfeilstetter, Banks G, Young , etc. Status of feral oilseed rape in Europe. (in prep).

Squire GR, Begg GS, Iannetta PPM, Boffey CWH, Brooks D, Champion G, Cullen DW, Hawes C, Lutman PJ, Heard MS, May MJ, Young MW. (submitted). Persistence of oilseed rape in fields used for the Farm Scale Evaluations of GM herbicide-tolerant crops.

Vogler, A., Marianne Wettstein-Baettig M., Aulinger-Leipner I.E., Stamp P. (submitted) Determination of vertical take-off of maize (*Zea mays* L.) pollen. *Agricultural and Forest Meteorology*.

Vogler A, Bertossa M., Aulinger-Leipner I.E., Stamp P. (in prep). Flowering synchronization and out-crossing at the level of single maize (*Zea mays* L.) plants

Williams, G. Kelly R, Jensen E.S. Robson P.R.H. (in prep). Studies of gene flow from silage maize to sweet corn using the maize shrunken phenotype.