Research outputs
Listing of Research outputs

**Breeding and selection of Buxus for resistance to Calonectria pseudonaviculata.** / Van Laere, Katrijn; Heungens, Kurt; Gehesquière, Bjorn; Leus, Leen; Hermans, Didier; Van Huylenbroeck, Johan.
Research output: Contribution to journal › A1: Web of Science-article › Research › peer-review

**Seed yield in red clover is associated with meiotic abnormalities and in tetraploid genotypes also with self-compatibility.** / Vleugels, Tim; Van Laere, Katrijn; Roldán-Ruiz, Isabel; Cnops, Gerda.
Research output: Contribution to journal › A1: Web of Science-article › Research › peer-review

**A high-quality genome sequence of Rosa chinensis to elucidate ornamental traits.** / Hibrand Saint-Oyant, L; Ruttink, T; Hamama, L; Kirov, I; Lakhwani, D; Zhou, N N; Bourke, P M; Daccord, N; Leus, L; Schulz, D; Van de Geest, H; Hesselink, T; Van Laere, K; Debray, K; Balzergue, S; Thouroude, T; Chastellier, A; Jeauffe, J; Voisine, L; Gaillard, S; Borm, T J A; Arens, P; Voorrips, R E; Maliepaard, C; Neu, E; Linde, M; Le Paslier, M C; Bérard, A; Bounon, R; Clotault, J; Choisne, N; Quesneville, H; Kawamura, K; Aubourg, S; Sakr, S; Smulders, M J M; Schijlen, E; Bucher, E; Debener, T; De Riek, J; Foucher, F.
Research output: Contribution to journal › A1: Web of Science-article › Research › peer-review

**The variable effect of polyploidization on the phenotype in Escallonia.** / Denaeghel, Hanne; Van Laere, Katrijn; Leus, Leen; Lootens, Peter; Van Huylenbroeck, Johan; Van Labeke, Marie-Christine.
Research output: Contribution to journal › A1: Web of Science-article › Research › peer-review

**Ploidy breeding in ornamentals.** / Eeckhaut, Tom; Van der Veken, Jeroen; Dhooghe, Emmy; Leus, Leen; Van Laere, Katrijn; Van Huylenbroeck, Johan.
Research output: Chapter in Book/Report/Conference proceeding › Contribution to book/anthology › Research › peer-review

**Breeding woody ornamentals of the temperate zone.** / Van Laere, Katrijn; Hokanson, Stan; Conteras, Ryan; Van Huylenbroeck, Johan.
Research output: Chapter in Book/Report/Conference proceeding › Contribution to book/anthology › Research › peer-review

**DRAWID: user-friendly java software for chromosome measurements and idiogram drawing.** / Kirov, Ilia; Khrustaleva, Ludmila; Van Laere, Katrijn; Soloviev, Alexander; Meeus, Sofie; Romanov, Dmitry; Fesenko, Igor.
Research output: Contribution to journal › A1: Web of Science-article › Research › peer-review

**Interspecific hybridization in Sarcococca supported by analysis of ploidy level, genome size and genetic relationships.** / Denaeghel, Hanne; Van Laere, Katrijn; Leus, Leen; Van Huylenbroeck, Johan; Van Labeke, Marie-Christine.
Research output: Contribution to journal › A1: Web of Science-article › Research › peer-review

**Building bridges: integrating in situ Hi-C and molecular cytogenetics to reconstruct Rosa wichurana pseudochromosomes.** / Ruttink, Tom; Kirov, Ilia; De Keyser, Ellen; De Riek, Jan; Leus, Leen; Haegeman, Annelies; Bendahmane, M.; Liu, Chang; Van Laere, Katrijn.
The next generation of molecular markers in plant sciences. / Haegeman, Annelies; De Keyser, Ellen; De Riek, Jan; Heungens, Kurt; Kirov, Ilia; Leus, Leen; Maes, Martine; Muylle, Hilde; Roldán-Ruiz, Isabel; Van Glabeke, Sabine; Van Huylenbroeck, Johan; Van Laere, Katrijn; Van Poucke, Kris; Verwimp, Christophe; Ruttink, Tom.
Research output: Contribution to conference > Poster > Research

Functional tandem repeats of Allium fistulosum associated with major chromosomal landmarks. / Kirov, Ilia; Kisevela, A; Beig, M; Van Laere, Katrijn; Van Roy, Nadine; Khristaleva, Ludmila.
Research output: Contribution to journal > A1: Web of Science-article > Research > peer-review

FISH-guided genome assembly in Rosa wichurana. / Van Laere, Katrijn; Kirov, Ilia; De Keyser, Ellen; De Riek, Jan; Leus, Leen; Haegeman, Annelies; Liu, Chang; Ruttink, Tom.
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Fertility barriers in interspecific crosses within Viburnum. / Xie, Weijia; Leus, Leen; Wang, Ji-Hua; Van Laere, Katrijn.
In: Euphytica, Vol. 213, 2017, p. 34.
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Towards a FISH-based karyotype of Rosa L. (Rosaceae). / Kirov, Ilia; Van Laere, Katrijn; Van Roy, Nadine; Khristaleva, Ludmila.
Research output: Contribution to journal > A1: Web of Science-article > Research > peer-review

Polyploidisation as a tool to introgress compact growth in Escallonia. / Denaeghel, Hanne; Van Laere, Katrijn; Leus, Leen; Van Huylenbroeck, Johan; Van Laboeke, Marie-Christine.
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Breeding for compactness in Escallonia. / Denaeghel, Hanne; Van Laere, Katrijn; Leus, Leen; Van Laboeke, Marie-Christine.
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Durable disease resistance in woody ornamentals: the breeders' challenge. / Van Huylenbroeck, Johan; Leus, Leen; Luypaert, Gil; Van Laere, Katrijn.
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Cytogenetic approaches enhance advanced breeding in woody ornamentals. / Van Laere, Katrijn; Kirov, Ilia; Van Huylenbroeck, Johan; Khristaleva, Ludmila.
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Integrated approach for interspecific breeding in Viburnum. / Van Laere, Katrijn; Xie, Weijia; Van Huylenbroeck, Johan.
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**Induction of Tetraploids in *Escallonia* spp.** / Denaeghel, Hanne; Van Laere, Katrijn; Leus, Leen; Van Huylenbroeck, Johan. 2015. Poster session presented at 25th International Eucarpia Symposium, Section Ornamentals: Crossing Borders, Meise, Belgium.

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**Towards population genomics and metagenomics in agriculture and marine environments.** / Haegeman, Annelies; De Mulder, Thijs; De Tender, Caroline; Fratrie, Marie-Alice; Kirov, Ilia; Luypaert, Gil; van Parijs, Frederik; Veeckman, Elsabeth; Verwimp, Christophe; Baeyen, Steve; Debode, Jane; De Keyser, Ellen; De Riek, Jan; Devriese, Lisa; Goossens, Karen; Maes, Sara; Muylle, Hilde; Peiren, Nico; Rasschaert, Geertrui; Taverniers, Isabelle; Van Coillie, Els; Vandaele, Leen; Van Laere, Katrijn; De Campeneere, Sam; De Loose, Marc; Heyndrickx, Marc; Maes, Martine; Robbens, Johan; Rolodan-Ruiz, Isabel; Van Huylenbroeck, Johan; Rutting, Tom. 2015. Poster session presented at BIG N2N annual symposium, Gent, Belgium.

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**Karyotype analysis and visualization of 45S rDNA genes using fluorescence in situ hybridisation in aroids (Araceae).** / Lakshmanan, Prabhu Shankar; Van Laere, Katrijn; Eeckhaut, Tom; Van Huylenbroeck, Johan; Van Bockstaele, Erik; Khristaleva, Ludmila. In: Comparative Cytogenetics, Vol. 9, No. 2, 11.05.2015, p. 145-160.

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**Cytology and fertility of amphidiploid hybrids between *Nicotiana wuttkei* Clarkson et Symon and *N. tabacum* L.** / Laskowska, Dorota; Berbec, Apoloniusz; Van Laere, Katrijn; Kirov, Ilia; Czubacka, Anna; Trojan-Goluch, Anna. In: Euphytica, Vol. 206, No. 3, 08.05.2015, p. 597-608.

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**Isolation and molecular characterization of new tandem repeats in *Allium fistulosum* genome and their application for chromosome identification.** / Kirov, Ilia; Kiseleva, A.V.; Beig, M. Ali Sheikh; Van Laere, Katrijn; Khristaleva, Ludmila. 2015. 7th International Symposium on Edible Alliaceae, Nigde, Turkey.

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Segregation of resistance to *calonectria pseudonaviculata* in interspecific *Buxus* hybrids. / Van Laere, Katrijn; Gehesquière, Bjorn; Heungens, Kurt; Van Huylenbroeck, Johan.

Alternative in vitro breeding techniques to induce compactness in woody ornamentals. / Denaeghel, Hanne; Van Laere, Katrijn; Leus, Leen; Eeckhaut, Tom; Van Huylenbroeck, Johan.
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Breeding for polyploidy: examples in horticultural and agricultural crops. / Leus, Leen; Baert, Joost; Van Laere, Katrijn; Van Huylenbroeck, Johan.

Anchoring linkage groups of the *Rosa* genetic map to physical chromosomes by means of Tyramide-FISH mapping of abiotic stress related genes. / Van Laere, Katrijn; Kirov, Ilya; De Keyser, Ellen; De Riek, Jan; Khrustaleva, Ludmila.

Population genetics in *Rosa* section Caninae based on AFLP markers and FISH-mapping of repetitive DNA sequences. / Van Laere, Katrijn; Nybom, Hilde; Smulders, Marinus J.M.; De Riek, Jan.

The use of EST-SNP markers to integrate genetic and physical maps for *Rosa wichurana*. / De Keyser, Ellen; Kirov, Ilya; Van Laere, Katrijn; Oleg, Alexandrov; Soloviev, Alexander; Khrustaleva, Ludmila.

An easy “SteamDrop” method for high quality plant chromosome preparation. / Kirov, Ilya; Divashuk, Mikhail; Van Laere, Katrijn; Oleg, Alexandrov; Soloviev, Alexander; Khrustaleva, Ludmila.

An easy ”SteamDrop” method for high quality plant chromosome preparation. / Kirov, Ilya; Divashuk, Mikhail; Van Laere, Katrijn; Soloviev, Alexander; Khrustaleva, Ludmila.

Anchoring linkage groups of the *Rosa* genetic map to physical chromosomes with Tyramide-FISH and EST-SNP markers. / Kirov, Ilya; Van Laere, Katrijn; De Riek, Jan; De Keyser, Ellen; Van Roy, Nadine; Khrustaleva, Ludmila.

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Plant Molecular Cytogenetics in Genomic and Postgenomic Era - Abstract Book. 2014.
Detection and Induction of Unreduced Pollen in a Begonia Collection. / Van Laere, Katrijn; Dewitte, Angelo; Van Huylenbroeck, Johan.
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Genetic relationships in European and Asiatic Buxus species and their possibilities of interspecific hybridisation. / Van Laere, Katrijn; Hermans, Didier; Leus, Leen; Van Huylenbroeck, Johan.
Research output: Chapter in Book/Report/Conference proceeding › C3: Conference Abstract › Research

Tetraploid Spathiphyllum wallisii plants: do they have added value? / Van Laere, Katrijn; Franca, S.C.; Vansteenkiste, H.; Van Huylenbroeck, Johan; Steppe, K.; Van Labeke, Marie-Christine.
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Use of 2n gametes in plant breeding. / Dewitte, Angelo; Van Laere, Katrijn; Van Huylenbroeck, Johan.
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Research output: Contribution to journal › A1: Web of Science-article › Research › peer-review

An integrated approach to overcome incongruity in woody ornamentals. / Van Laere, Katrijn; De Keyser, Ellen; Eeckhaut, Tom; Calsyn, Evelien; Van Huylenbroeck, Johan.
Research output: Contribution to conference › Published abstract › Research › peer-review

Cytogenetic mapping of candidate genes involved in drought resistance in a diploid Rosa wichurana x Rosa 'Yesterday' population using tyramide-FISH. / Van Laere, Katrijn; Kirov, Ilya; De Keyser, Ellen; Razavi, Farzaneh; Khrustaleva, Ludmila; Van Huylenbroeck, Johan.
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Introgression of yellow flower colour in Buddleja davidii by means of polyploidisation and interspecific hybridisation. / Van Laere, K.; Van Huylenbroeck, J.; Van Bockstael, E.
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Interspecific hybridisation and genome size analysis in Buddleja. / Van Laere, K.; Leus, L.; Van Huylenbroeck, J.; Van Bockstaele, E.
Breeding strategies to increase genetic variability in *Hibiscus syriacus*. / Van Laere, Katrijn; Van Huylenbroeck, Johan; Van Bockstaele, Erik.
Research output: Chapter in Book/Report/Conference proceeding › C1: Articles in proceedings › Research › peer-review

Breeding strategies to increase genetic variability in *Hibiscus syriacus*. / Van Laere, Katrijn; Van Huylenbroeck, Johan; Van Bockstaele, Erik.
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Karyotyping of *Hydrangea* species by 45S rDNA FISH and computer-aided chromosome analysis. / Van Laere, Katrijn; Van Huylenbroeck, Johan; Van Bockstaele, Erik.
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In vitro and microscopic tools for interspecific hybridisation in woody ornamentals. / Van Laere, Katrijn; Van Huylenbroeck, Johan; Van Bockstaele, Erik.
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Interspecific hybridisation in flowering shrubs. / Van Huylenbroeck, J; Van Laere, K; Eeckhaut, T; Van Bockstaele, E.
Research output: Chapter in Book/Report/Conference proceeding › C1: Articles in proceedings › Research › peer-review

Interspecific hybridisation in flowering shrubs. / Van Huylenbroeck, Johan; Van Laere, Katrijn; Eeckhaut, Tom; Van Bockstaele, Erik.
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Embryo rescue and in vitro polyploidisation as tools for overcoming postfertilisation barriers in interspecific crosses. / Van Laere, Katrijn; Van Huylenbroeck, Johan; Van Bockstaele, Erik.
Research output: Contribution to conference › Published abstract › Research › peer-review

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