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Research outputs
Listing of Research outputs

Pleistocene climate changes, and not agricultural spread, accounts for range expansion and admixture in the dominant grassland species Lolium perenne L. / Luis Blanco-Pastor, Jose; Manel, Stephanie; Barre, Philippe; Roschanski, Anna M.; Willner, Evelin; Dehmer, Klaus J.; Hegarty, Mathew; Muylle, Hilde; Rutting, Tom; Roldan-Ruiz, Isabel; Ledauphin, Thomas; Escobar-Gutierrez, Abraham; Sampoux, Jean-Paul.
Research output: Contribution to journal › Article › Research › peer-review

Single Nucleotide Polymorphisms and Biochemical Markers As Complementary Tools To Characterize Hops (Humulus lupulus L.) in Brewing Practice. / Van Holle, Ann; Muylle, Hilde; Rutting, Tom; Van Lantschoot, Anita; Naudts, Dirk; De Keukeleire, Denis; Roldán-Ruiz, Isabel.
Research output: Contribution to journal › A1: Web of Science-article › Research › peer-review

Temporal changes in genetic diversity and forage yield of perennial ryegrass in monoculture and in combination with red clover in swards. / Verwimp, Christophe; Rutting, Tom; Muylle, Hilde; Van Glabeke, Sabine; Cnops, Gerda; Quaetaert, Paul; Honnay, Olivier; Roldán-Ruiz, Isabel.
Research output: Contribution to journal › A1: Web of Science-article › Research › peer-review

Overcoming challenges in variant calling: exploring sequence diversity in candidate genes for plant development in perennial ryegrass (Lolium perenne). / Veeckman, Elisabeth; Van Glabeke, Sabine; Haegeman, Annelies; Muylle, Hilde; van Parijs, Frederik R D; Byrne, Stephen L; Asp, Torben; Studer, Bruno; Rohde, Antje; Roldán-Ruiz, Isabel; Vandepoele, Klaas; Rutting, Tom.
Research output: Contribution to journal › A1: Web of Science-article › Research › peer-review

Impact of subtherapeutic concentrations of doxycyclinehyclate on the microbial ecosystem in an in vitro model of the pigs cecum. / De Mulder, Thijs; Raesschaert, Geertru; Van Coillie, Els; Haegeman, Annelies; Rutting, Tom; Van de Wiele, Tom; Heyndrickx, Marc.
Research output: Contribution to journal › A1: Web of Science-article › Research › peer-review

Exploring coffee : Genetic diversity assessments in Arabica coffee (Coffea arabica L.) and its crop wild relatives. / Bawin, Yves; Rutting, Tom; Janssens, Steven B; Honnay, Olivier; Roldán-Ruiz, Isabel.
2018.
Research output: Contribution to conference › Poster › Research

A high-quality genome sequence of Rosa chinensis to elucidate ornamental traits. / Hibrand Saint-Oyant, L; Rutting, 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; Jeaffre, J; Voisine, L; Gaillard, S; Borm, T J A; Arens, P; Voorrips, R E; Malepaard, 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; Fouchez, F.
Research output: Contribution to journal › A1: Web of Science-article › Research › peer-review

Impact of breed on the rumen microbial community composition and methane emission of Holstein Friesian and Belgian Blue heifers. / De Mulder, Thijs; Peiren, Nico; Vandaele, Leen; Rutting, Tom; De Campeneere, Sam; Van de Wiele, Tom; Goossens, Karen.
Research output: Contribution to journal › A1: Web of Science-article › Research › peer-review
Natural diversity in vegetative and reproductive investments of perennial ryegrass is shaped by the climate at the place of origin. / Barre, Philippe; Ruttink, Tom; Muylje, Hilde; Lootens, Peter; Rohde, Antje; Didier, Combes; Roldán-Ruiz, Isabel.
Research output: Contribution to journal » A1: Web of Science-article » Research » peer-review

Safeguarding the wild gene pools of Arabica and Robusta coffee: coffee genomic research in the region of Flanders. / Bawin, Yves; Geeraert, Lore; Honnay, Olivier; Hulsmans, Eva; Janssens, Steven B; Jordaeens, Kurt; Mertens, Arne; Roldán-Ruiz, Isabel; Ruttink, Tom; Sinnesael, Arne; Smets, Erik; Stoffelen, Piet; Vandelook, Filip; Vanden Abeele, Samuel; Verstraete, Brecht.
2017.
Research output: Contribution to conference » Poster » Research

Temporal dynamics of bacterial and fungal colonization on plastic debris in the North Sea. / De Tender, Caroline; Devriese, Lisa; Haegeman, Annelies; Maes, Sara; Vangeyte, Jürgen; Catrijsse, André; Dawyndt, Peter; Ruttink, Tom.
Research output: Contribution to journal » A1: Web of Science-article » Research » peer-review

An integrated strategy combining DNA walking and NGS to detect GMO. / Fraiture, Marie-Alice; Herman, Philippe; Papazova, Nina; De Loose, Marc; Deforce, Dieter; Ruttink, Tom; Roosens, Nancy.
In: FOOD CHEMISTRY, 18.03.2017.
Research output: Contribution to journal » A1: Web of Science-article » Research » peer-review

Gene Expression Changes in First Generations of Reciprocal Interspecific Grass Hybrids. / Stoces, Stepan; Yates, Steven A; Ruttink, Tom; Studer, Bruno; Zwierzykowski, Zbigiew; Roldán-Ruiz, Isabel; Książczyk, Tomasz; Dolezel, Jaroslav; Kopecky, David; Bartos, Jan.
2017. Plant and Animal Genome Conference (PAG-XXV), San Diego, United States.
Research output: Contribution to conference » C3: Conference - meeting abstract » Research

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.
2017. Abstract from Plant and Animal Genome Conference (PAG-XXV), San Diego, United States.
Research output: Contribution to conference » Published abstract » Research

Perennial Ryegrass: Unravelling the Structure and Content of a Many-Faced Genome. / Veeckman, Elisabeth; Asp, Torben; Roldán-Ruiz, Isabel; Vandepoele, Klaas; Ruttink, Tom.
2017. Abstract from Plant and Animal Genome Conference (PAG-XXV), San Diego, United States.
Research output: Contribution to conference » Published abstract » Research

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; Muylje, 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

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.
2017. GPZ meeting of cytogenetics 'Chromosome Biology and Genome Editing in the context of Plant Breeding', Gatersleben, Germany.
Research output: Contribution to conference » C3: Conference - meeting abstract » Research » peer-review

Identification and characterization of Phytophthora hybrids using genotyping-by-sequencing. / Van Poucke, Kris; Goedefroit, Thomas; Haegeman, Annelies; Ruttink, Tom; Heungens, Kurt.
Research output: Chapter in Book/Report/Conference proceeding » C3: Conference Abstract » Research
A DNA metabarcoding approach to profile macrobenthos and zooplankton biodiversity. / Devriese, Lisa; Hostens, Kristian; Maes, Sara; Haegeman, Annelies; De Backer, Annelies; Wittoeck, Jan; Vansteenbrugge, Lies; Ruttink, Tom. 2016. Abstract from ICES/PICES 6th Zooplankton Production Symposium, Bergen, Norway.

Allele frequency profiling of candidate adaptive genes for landscape genomics in perennial ryegrass. / Ruttink, Tom; Lamour, Kurt; Barre, Phillippe; Van Glabeke, Sabine; Muylle, Hilde; Roschanski, Anna; Dehmer, Klaus; Sampoux, Jean-Paul; Roldán-Ruiz, Isabel. 2016. Poster session presented at Applied Bioinformatics in Life Sciences, Leuven, Belgium.

Revealing genomic variation in perennial ryegrass (Lolium perenne). / Veeckman, Elisabeth; Vandepoele, Klaas; Asp, Torben; Roldán-Ruiz, Isabel; Ruttink, Tom. 2016. Poster session presented at Applied Bioinformatics for Life Sciences, Leuven, Belgium.

Exploring population structure of Mnemiopsis leidyi in north-western European waters. / Verwimp, Christophe; Vansteenbrugge, Lies; Hostens, Kristian; Muylle, Hilde; Honnay, Olivier; Roldán-Ruiz, Isabel; Robbens, Johan; Ruttink, Tom. 2016. Abstract from VLIZ Marine Scientist Day (2016), Brugge, Belgium.

Statistical framework for detection of Genetically Modified Organisms based on Next Generation Sequencing. / Willems, Sander; Fraiture, Marie-Alice; Deforce, Dieter; De Keersmaecker, Sigrid; Herman, Philippe; De Loose, Marc; Ruttink, Tom; Van Nieuwerburgh, Filip; Roosens, Nancy. In: FOOD CHEMISTRY, Vol. 192, 01.02.2016, p. 788-798.

Genomics in azalea: defence against broad mite (Polyphagotarsonemus latus) infection as a case study. / De Keyser, Ellen; Luypaert, Gil; Ruttink, Tom; Van Huylenbroeck, Johan; De Riek, Jan. 2016. 20th EUCARPIA General Congress, Zurich, Switzerland.

Orthology Guided Transcriptome Assembly of Italian Ryegrass and Meadow Fescue for Single-Nucleotide Polymorphism Discovery. / Stoces, Stepan; Ruttink, Tom; Bartos, Jan; Studer, Bruno; Yates, Steven; Zwierzynkowski, Zbigniew; Abrouk, Michael; Roldán-Ruiz, Isabel; Książczyk, Tomasz; Rey, Elodie; Dolezel, Jaroslav; Kopecky, David. In: Plant Genome, Vol. 9, No. 3, 2016, p. 1-14.

Bacterial community profiling of plastic litter in the Belgian part of the North Sea. / De Tender, Caroline; Devriese, Lisa; Haegeman, Annelies; Maes, Sara; Ruttink, Tom; Dawyndt, Peter. In: Environmental Science & Technology, Vol. 49, 06.08.2015, p. 9629-9638.

Effects of biochar addition on bacterial populations of the lettuce and strawberry rhizosphere. / De Tender, Caroline; Debode, Jane; Haegeman, Annelies; Ruttink, Tom; Baeyen, Steve; Cremelie, Pieter; Vandecastelee, Bart; Dawyndt, Peter; Maes, Martine. Bageco 13 Bacterial Genetics and Ecology: The microbial continuity across changing ecosystems. 2015.

Plastic debris: a distinct niche in the marine environment. / De Tender, Caroline; Devriese, Lisa; Haegeman, Annelies; Maes, Sara; Ruttink, Tom; Dawyndt, Peter; Robbens, Johan. Bageco 13 Bacterial Genetics and Ecology: The microbial continuity across changing ecosystems. 2015.
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2015. Poster session presented at BIG N2N annual symposium, Gent, Belgium.

Plastic debris: a distinct niche in the marine environment. / De Tender, Caroline; Devriese, Lisa; Haegeman, Annelies; Maes, Sara; Ruttink, Tom; Dawyndt, Peter; Robbens, Johan.
2015. Poster session presented at BIG N2N annual symposium, Gent, Belgium.

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

Metagenomics @ sea: a floating house in a marine environment. / De Tender, Caroline; Devriese, Lisa; Maes, Sara; Haegeman, Annelies; Ruttink, Tom; Robbens, Johan; Dawyndt, Peter.
Book of abstracts: VLIZ young marine scientists' day . 2015.
Research output: Chapter in Book/Report/Conference proceeding › C3: Conference Abstract › Research

Population genomics of Mnemiopsis leidyi: a notorious marine invader in the North Sea. / Verwimp, Christophe; Vansteenbrugge, Lies; Devriese, Lisa; Hostens, Kristian; Muylle, Hilde; Honnay, Olivier; Roldán-Ruiz, Isabel; Ruttink, Tom; Robbens, Johan.
Research output: Contribution to conference › Published abstract › Research

Probing genome diversity in natural and breeding populations of Lolium perenne. / Ruttink, Tom; Veeckman, Elisabeth; Haegeman, Annelies; van Parijs, Frederik; Van Glabeke, Sabine; Muylle, Hilde; Vandepoele, Klaas; Byrne, Stephen; Asp, Torben; Roldán-Ruiz, Isabel.
Research output: Contribution to conference › C3: Conference - meeting abstract › Research › peer-review

Gene expression changes in interspecific Festuca x Lolium hybrids. / Stoces, Stepan; Ruttink, Tom; Kopecky, David; Abrouk, Michael; Bartos, Jan; Dolezel, Jaroslav.
Research output: Contribution to conference › Poster › Research › peer-review

Fifty shades of red: flavonoid analysis in Rhododendron simisii hybrids. / De Keyser, Ellen; Van Poucke, Christof; Ruttink, Tom; De Riek, Jan.
Research output: Chapter in Book/Report/Conference proceeding › C3: Conference Abstract › Research › peer-review

Development of cytogenetic markers in Rosa. / Kirov, Ilia; Van Laere, Katrijn; De Riek, Jan; De Keyser, Ellen; Ruttink, Tom; Van Roy, Nadine; Khristaleva, Ludmila.
Research output: Chapter in Book/Report/Conference proceeding › C3: Conference Abstract › Research › peer-review

An association mapping approach on cell wall digestibility and plant architecture gives insight in yield, persistency and forage quality in perennial ryegrass. / Muylle, Hilde; Ruttink, Tom; van Parijs, Frederik; Van Glabeke, Sabine; Veeckman, Elisabeth; Haegeman, Annelies; Byrne, Stephen; Asp, Torben; Roldán-Ruiz, Isabel.
Characterisation of genetic diversity for resistance and quality traits using molecular tools. / Muylle, Hilde; Barth, Susanne; Ruttink, Tom.
2013. 30th Eucarpia Fodder Crops and Amenity Grasses Section Meeting, Vrnjacka banja, Serbia.
Research output: Contribution to conference › C3: Conference - meeting abstract › Research › peer-review

Gene expression analysis in Festulolium hybrids using RNA-seq. / Stoces, Stepan; Ruttink, Tom; Kopecky, David; Bartos, Jan; Dolezel, Jaroslav.
2013. 30th Eucarpia Fodder Crops and Amenity Grasses Section Meeting, Vrnjacka banja, Serbia.
Research output: Contribution to conference › C3: Conference - meeting abstract › Research › peer-review

The development of an SNP platform for rapid screening of the genomic constitution of Festulolium hybrids and gene expression analysis. / Stoces, Stepan; Ruttink, Tom; Kopecky, David; Bartos, Jan; Dolezel, Jaroslav.
2013. Poster session presented at Plant Genetics and Breeding Technologies, Vienna, Austria.
Research output: Contribution to conference › Poster › Research › peer-review

Molecular characterization of cell wall digestibility in Lolium : an association mapping approach. / Muylle, Hilde; van Parijs, Frederik; Feys, Kim; Ruttink, Tom; Roldan-Ruiz, Isabel.
Research output: Contribution to journal › A1: Web of Science-article › Research › peer-review

Orthology Guided Assembly in highly heterozygous crops: creating a reference transcriptome to uncover genetic diversity in Lolium perenne. / Ruttink, Tom; Sterck, Lieven; Rohde, Antje; Bendixen, Christian; Rouzé, Pierre; Asp, Torben; Van de Peer, Yves; Roldan-Ruiz, Isabel.
Research output: Contribution to journal › A1: Web of Science-article › Research › peer-review

Developing SNP assays for Lolium perenne: a pilot study for LpCCR1. / van Parijs, Frederik; Feys, Kim; Vercruysse, Vicky; Ruttink, Tom; Van Bockstaele, Erik; Haesaert, Geert; Roldan-Ruiz, Isabel; Muylle, Hilde.
Research output: Contribution to conference › Published abstract › Research › peer-review

Towards Detection of Unknown GMOs. / Holst-Jensen, A; Berdal, K; Bertheau, Y; Bohanec, M; Bohlin, J; Chaouachi, M; Gruden, K; Hamels, S; Kok, E; Krech, A; Kristoffersen, A; Laval, V; Leimanis, S; Lovoll, M; Morisset, D; Nemeth, A; Papazova, N; Prins, T; Remacle, J; Richl, P; Ruttink, Tom; Taverniers, Isabel; Tengs, T; van Dijk, J; Wulff, D; Zel, J; Zhang, H; Znidarsic, M.
Research output: Chapter in Book/Report/Conference proceeding › Contribution to book/anthology › Research › peer-review

A medium-throughput procedure to estimate growth parameters of field-grown forage grass plants. / Lootens, Peter; Ruttink, Tom; Rohde, Antje; Serge, Carré; Didier, Combes; Philippe, Barre; Roldan-Ruiz, Isabel.
Research output: Contribution to conference › Published abstract › Research › peer-review

A pipeline for transcriptome assembly and SNP identification in highly heterozygous crops. / Ruttink, Tom; Sterck, Lieven; Roldan-Ruiz, Isabel.
2012. Abstract from Plant and Animal Genome Conference XX, San Diego, United States.
Research output: Contribution to conference › Published abstract › Research › peer-review

Development of a SNP identification pipeline for highly heterozygous crops. / Ruttink, Tom; Sterck, Lieven; Vermeulen, Elke; Rohde, Antje; Roldan-Ruiz, Isabel.
Characterization of the cinnamoyl-coA reductase gene family of *Lolium perenne*. / van Parijs, Frederik; Ruttink, T; Roldán-Ruiz, I; Haesaert, G; Van Boekstaele, E; Muylle, H.

Bud set in poplar-genetic dissection of a complex trait in natural and hybrid populations. / Rohde, Antje; Storme, Véronique; Jorge, Véronique; Gaudet, Muriel; Vitacolonna, Nicola; Fabbrini, Francesco; Ruttink, Tom; Zaina, Giusi; Marron, Nicolas; Dillon, Sophie; Steenackers, Marijke; Sabatti, Maurizio; Morgante, Michele; Boerjan, Wout; Bastien, Catherine.

Development of an SNP identification pipeline for highly heterozygous crops. / Ruttink, Tom; Sterck, Lieven; Roldan-Ruiz, Isabel.

NRL-GMO : GMODetec researchproject (2007-2010). / Barbau-Piednoir, Elodie; Lievens, Antoine; Leunda Casi, Amaya; Roosens, Nancy; Van den Bulcke, Marc; Sneyers, Myriam; Deboede, Frédéric; Janssen, Eric; Berben, Gilbert; Ruttink, Tom; Taverniers, Isabel; De Loose, Marc.

Knowledge-technology-based discovery of unauthorized genetically modified organisms. / Ruttink, Tom; Morisset, Dany; Van Droogenbroeck, Bart; Lavrac, Nada; Van Den Eede, Guy L. M.; Zel, Jana; De Loose, Marc.

Molecular toolbox for the identification of unknown genetically modified organisms. / Ruttink, Tom; Demeyer, Rolinde; Van Gulck, Elke; Van Droogenbroeck, Bart; Querci, Maddalena; Taverniers, Isabel; De Loose, Marc.

Probing phenotypic and genotypic diversity underlying architectural traits in ryegrass. / Ruttink, Tom; Saracutu, Oana Otilia; Roldan-Ruiz, Isabel; Rohde, Antje.
2010. Abstract from Plant and Animal Genome Conference XX, San Diego, United States.

Assessment of primer/template mismatch effects on real-time PCR amplification of target taxa for GMO quantification. / Ghedira, Rim; Papazova, Nina; Vuylsteke, Marnik; Ruttink, Tom; Taverniers, Isabel; De Loose, Marc.

Gene expression during the induction, maintenance, and release of dormancy in apical buds of poplar. / Rohde, Antje; Ruttink, Tom; Hostyn, Vanessa; Sterck, Lieven; Van Driessche, Klara; Boerjan, Wout.

A molecular timetable for apical bud formation and dormancy induction in poplar. / Ruttink, Tom; Arend, Matthias; Morreel, Kris; Storme, Veronique; Rombauts, Stephane; Fromm, Joerg; Bhalerao, Rishikesh P.; Boerjan, Wout; Rohde, Antje.
ENOD40 affects elongation growth in tobacco Bright Yellow-2 cells by alteration of ethylene biosynthesis kinetics. / Ruttink, Tom; Boot, Kees; Kijne, Jan; Bisseling, Ton; Franssen, Henk.
Research output: Contribution to journal › A1: Web of Science-article › Research › peer-review

Identification and characterization of a Zea mays line carrying a transposon-tagged ENOD40. / Compaan, B; Ruttink, Tom; Albrecht, C; Meeley, R; Bisseling, T; Franssen, H.
Research output: Contribution to journal › A1: Web of Science-article › Research › peer-review

Quantitative NMR microscopy of osmotic stress responses in maize and pearl millet. / van der Weerd, L; Claessens, MMAE; Ruttink, Tom; Vergeldt, FJ; Schaafsma, TJ; Van As, H.
Research output: Contribution to journal › A1: Web of Science-article › Research › peer-review

Characterization of position-induced spatial and temporal regulation of transgene promoter activity in plants. / van Leeuwen, W; Ruttink, Tom; Borst-Vrensnessen, A W; van der Plas, L H; van der Krol, A R.
Research output: Contribution to journal › A1: Web of Science-article › Research › peer-review

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