

CURRICULUM VITAE ANDREA PATOCCHI

Personal information

FAMILY NAME Patocchi
NAME(s) Andrea, Emilio
DATE OF BIRTH 19 March 1971
NATIONALITY Swiss, from Lavizzara (TI)
MARITAL STATUS Married

Researcher ID:

Google Scholar ID: [Andrea Patocchi](#)

OrcID: <https://orcid.org/0000-0002-0919-2702>

Academic titles

2000 PhD, Institute of Plant sciences ETHZ, (1997-2000)
1996 Dipl. Natw. ETHZ (1991-1996)
1990 Maturity type C, Liceo Bellinzona (1986-1990)
1986 High-school Diploma, Bellinzona (1982-1986)

Languages

Italian (mother tongue)
English, German and French (fluently spoken and written)

Employments

1996-1997 Researcher, Institute of Plant Sciences (ETHZ)
1997-2000 PhD student “Map-based cloning of resistance gene homologues in the *Vf*-region of the apple (*Malus sp.*)”, Institute of Plant Sciences, Phytopathology Group (ETHZ).
2000-2003 Postdoc Institute of Plant Sciences, Phytopathology Group (ETHZ)
2003-2005 „Chief assistant“ Institute of Plant Sciences, Phytopathology Group (ETHZ)
2005-2006 “Oberassistent”, Institute of Integrative Biology (Ecology, Evolution, Infectious diseases) Phytopathology Group (ETHZ)
2006-2013 Research leader mycology pome- and stone fruits, Plant Protection and Fruit and Vegetable Extension, Phytopathology Group (Agroscope)
2014-2016 Research leader apple genetics and molecular breeding, Plant Protection and Fruit and Vegetable Extension, Phytopathology Group (Agroscope)
2017- Head of Breeding Research Group (Agroscope)
2019- Deputy Head of Division Plant Breeding, Agroscope

Research projects (Principal Investigator)

- 2004-2007 Sustainable Strategies for Fire Blight Control (KTI)
- 2006-2010 Identification of candidate genes involved in fire blight resistance in apple (ICG) (COST 864)
- 2009- 2012 Developing Smart-breeding tools for apricot resistance against the stone fruit pathogen *Xanthomonas arboricola* pv. *pruni* (COST 863)
- 2016-2019 Development of a pipeline for multi-level assessment of cisgenic apples (SNF)

Research projects (co-Principal Investigator)

- 2000-2003 Cloning of *Vf*, a disease resistance gene from apple (SNF Grant)
- 2003-2006 Identification of *avr*-genes in *Venturia inaequalis* (SNF Grant)
- 2004-2007 Genetic modified apple resistant to apple scab (ETH Grant)
- 2007-2011 Genetically modified apples resistant to scab containing only apple own DNA (NFP59)
- 2008-2011 Züchtung feuerbrandtoleranter Obstsorten ZUEFOS (BLW)
- 2012-2013 Züchtung feuerbrandtoleranter Obstsorten ZUEFOS II (BLW)
- 2011-2015 Integrated approach for increasing breeding efficiency in fruit tree crops (FruitBreedomics; FP7-265582) see www.fruitbreedomics.com (workpackage leader)
- 2019-2024 Innovations in plant variety testing in Europe (INVITE, H2020)
- 2020-2024 Apfelzukunft dank Züchtung (AZZ, BLW)
- 2020-2025 Rewiring photorespiration using natural and synthetic pathways to sustainably increase crop yield (Gain4crops, H2020)

Last up-date: 10th February 2022

PEER REVIEWED PUBLICATIONS

1999

Patocchi, A., L. Gianfranceschi and C. Gessler (1999). "Towards the map-based cloning of Vf: fine and physical mapping of the Vf Region." *Theoretical and Applied Genetics* 99(6): 1012-1017.

Patocchi, A., B. A. Vinatzer, L. Gianfranceschi, S. Tartarini, H. B. Zhang, S. Sansavini and C. Gessler (1999). "Construction of a 550 kb BAC contig spanning the genomic region containing the apple scab resistance gene Vf." *Molecular and General Genetics* 262(4-5): 884-891.

2001

Vinatzer, B. A., A. Patocchi, L. Gianfranceschi, S. Tartarini, H. B. Zhang, C. Gessler and S. Sansavini (2001). "Apple contains receptor-like genes homologous to the *Cladosporium fulvum* resistance gene family of tomato with a cluster of genes cosegregating with Vf apple scab resistance." *Molecular Plant-Microbe Interactions* 14(4): 508-515.

2002

Barbieri, M., E. Belfanti, S. Tartarini, B. A. Vinatzer, S. Sansavini, E. Silfverberg-Dilworth, L. Gianfranceschi, D. Hermann, A. Patocchi and C. Gessler (2003). "Progress of map-based cloning of the Vf-resistance gene and functional verification: Preliminary results from expression studies in transformed apple." *Hortscience* 38(3): 329-331.

2003

Liebhart, R., B. Koller, A. Patocchi, M. Kellerhals, W. Pfammatter, M. Jermini and C. Gessler (2003). "Mapping quantitative field resistance against apple scab in a 'Fiesta' x 'Discovery' progeny." *Phytopathology* 93(4): 493-501.

2004

Baldi, P., A. Patocchi, E. Zini, C. Toller, R. Velasco and M. Komjanc (2004). "Cloning and linkage mapping of resistance gene homologues in apple." *Theoretical and Applied Genetics* 109(1): 231-239.

Belfanti, E., E. Silfverberg-Dilworth, S. Tartarini, A. Patocchi, M. Barbieri, J. Zhu, B. A. Vinatzer, L. Gianfranceschi, C. Gessler and S. Sansavini (2004). "The *HcrVf2* gene from a wild apple confers scab resistance to a transgenic cultivated variety." *Proceedings of the National Academy of Sciences of the United States of America* 101(3): 886-890.

Gygax, M., L. Gianfranceschi, R. Liebhart, M. Kellerhals, C. Gessler and A. Patocchi (2004). "Molecular markers linked to the apple scab resistance gene *Vbj* derived from *Malus baccata jackii*." *Theoretical and Applied Genetics* 109(8): 1702-1709.

Patocchi, A., B. Bigler, B. Koller, M. Kellerhals and C. Gessler (2004). "Vr2: a new apple scab resistance gene." *Theoretical and Applied Genetics* 109(5): 1087-1092.

Vinatzer, B. A., A. Patocchi, S. Tartarini, L. Gianfranceschi, S. Sansavini and C. Gessler (2004). "Isolation of two microsatellite markers from BAC clones of the Vf scab resistance region and molecular characterization of scab-resistant accessions in *Malus* germplasm." *Plant Breeding* 123(4): 321-326.

2005

Broggini, G. A. L., B. Duffy, E. Holliger, H. J. Scharer, C. Gessler and A. Patocchi (2005). "Detection of the fire blight biocontrol agent *Bacillus subtilis* BD170 (Biopro (R)) in a Swiss apple orchard." *European Journal of Plant Pathology* 111(2): 93-100.

Patocchi, A., M. Walser, S. Tartarini, G. A. L. Broggin, F. Gennari, S. Sansavini and C. Gessler (2005). "Identification by genome scanning approach (GSA) of a microsatellite tightly associated with the apple scab resistance gene *Vm*." *Genome* 48(4): 630-636.

Silfverberg-Dilworth, E., S. Besse, R. Paris, E. Belfanti, S. Tartarini, S. Sansavini, A. Patocchi and C. Gessler (2005). "Identification of functional apple scab resistance gene promoters." *Theoretical and Applied Genetics* 110(6): 1119-1126.

Valsesia, G., D. Gobbin, A. Patocchi, A. Vecchione, I. Pertot and C. Gessler (2005). "Development of a high-throughput method for quantification of *Plasmopara viticola* DNA in grapevine leaves by means of quantitative real-time polymerase chain reaction." *Phytopathology* 95(6): 672-678.

Zini, E., F. Biasioli, F. Gasperi, D. Mott, E. Aprea, T. D. Mark, A. Patocchi, C. Gessler and M. Komjanc (2005). "QTL mapping of volatile compounds in ripe apples detected by proton transfer reaction-mass spectrometry." *Euphytica* 145(3): 269-279.

2006

- Erdin, N., S. Tartarini, G. A. L. Broggin, F. Gennari, S. Sansavini, C. Gessler and A. Patocchi (2006). "Mapping of the apple scab-resistance gene *Vb*." *Genome* 49(10): 1238-1245.
- Gessler, C., A. Patocchi, S. Sansavini, S. Tartarini and L. Gianfranceschi (2006). "*Venturia inaequalis* resistance in apple." *Critical Reviews in Plant Sciences* 25(6): 473-503.
- Khan, M. A., B. Duffy, C. Gessler and A. Patocchi (2006). "QTL mapping of fire blight resistance in apple." *Molecular Breeding* 17(4): 299-306.
- Silfverberg-Dilworth, E., C. L. Matasci, W. E. Van de Weg, M. P. W. Van Kaauwen, M. Walser, L. P. Kodde, V. Soglio, L. Gianfranceschi, C. E. Durel, F. Costa, T. Yamamoto, B. Koller, C. Gessler and A. Patocchi (2006). "Microsatellite markers spanning the apple (*Malus x domestica* Borkh.) genome." *Tree Genetics & Genomes* 2(4): 202-224.
- Terakami, S., M. Shoda, Y. Adachi, T. Gonai, M. Kasumi, Y. Sawamura, H. Iketani, K. Kotobuki, A. Patocchi, C. Gessler, T. Hayashi and T. Yamamoto (2006). "Genetic mapping of the pear scab resistance gene *Vnk* of Japanese pear cultivar Kinchaku." *Theoretical and Applied Genetics* 113(4): 743-752.

2007

- Antofie, A., M. Lateur, R. Oger, A. Patocchi, C. E. Durel and W. E. Van de Weg (2007). "A new versatile database created for geneticists and breeders to link molecular and phenotypic data in perennial crops: the AppleBreed DataBase." *Bioinformatics* 23(7): 882-891.
- Broggin, G. A. L., B. Le Cam, L. Parisi, C. Wu, H. B. Zhang, C. Gessler and A. Patocchi (2007). "Construction of a contig of BAC clones spanning the region of the apple scab avirulence gene *AvrVg*." *Fungal Genetics and Biology* 44(1): 44-51.
- Gessler, C., and A. Patocchi (2007). Recombinant DNA technology in apple. In *Green Gene Technology* (pp. 113-132). Springer Berlin Heidelberg.
- Iannaccone, M., D. Palumbo, I. Ventimiglia, A. Patocchi, P. Spigno and R. Capparelli (2007). "Use of molecular markers and flow cytometry to preserve ancient Annurca apple germplasm." *Biotechnology Letters* 29(2): 279-284.
- Khan, M. A., C. E. Durel, B. Duffy, D. Drouet, M. Kellerhals, C. Gessler and A. Patocchi (2007). "Development of molecular markers linked to the 'Fiesta' linkage group 7 major QTL for fire blight resistance and their application for marker-assisted selection." *Genome* 50(6): 568-577.

2008

- Bus, V. G. M., D. Chagne, H. C. M. Bassett, D. Bowatte, F. Calenge, J. M. Celton, C. E. Durel, M. T. Malone, A. Patocchi, A. C. Ranatunga, E. H. A. Rikkerink, D. S. Tustin, J. Zhou and S. E. Gardiner (2008). "Genome mapping of three major resistance genes to woolly apple aphid (*Eriosoma lanigerum* Hausm.)." *Tree Genetics & Genomes* 4(2): 223-236.
- Soufflet-Freslon, V., L. Gianfranceschi, A. Patocchi and C. E. Durel (2008). "Inheritance studies of apple scab resistance and identification of *Rvi14*, a new major gene that acts together with other broad-spectrum QTL." *Genome* 51(8): 657-667.
- Stoeckli, S., K. Mody, C. Gessler, A. Patocchi, M. Jermini and S. Dorn (2008). "QTL analysis for aphid resistance and growth traits in apple." *Tree Genetics & Genomes* 4(4): 833-847.

2009

- Broggin, G. A. L., P. Galli, G. Parravicini, L. Gianfranceschi, C. Gessler and A. Patocchi (2009). "*HcrVf* paralogs are present on linkage groups 1 and 6 of *Malus*." *Genome* 52(2): 129-138.
- Patocchi, A., F. Fernandez-Fernandez, K. Evans, D. Gobbin, F. Rezzonico, A. Boudichevskaia, F. Dunemann, M. Stankiewicz-Kosyl, F. Mathis-Jeanneteau, C. E. Durel, L. Gianfranceschi, F. Costa, C. Toller, V. Cova, D. Mott, M. Komjanc, E. Barbaro, L. Kodde, E. Rikkerink, C. Gessler and W. E. van de Weg (2009). "Development and test of 21 multiplex PCRs composed of SSRs spanning most of the apple genome." *Tree Genetics & Genomes* 5(1): 211-223.
- Patocchi, A., A. Frei, J. E. Frey and M. Kellerhals (2009). "Towards improvement of marker assisted selection of apple scab resistant cultivars: *Venturia inaequalis* virulence surveys and standardization of molecular marker alleles associated with resistance genes." *Molecular Breeding* 24(4): 337-347.

Stoeckli, S., K. Mody, A. Patocchi, M. Kellerhals and S. Dorn (2009). "Rust mite resistance in apple assessed by quantitative trait loci analysis." *Tree Genetics & Genomes* 5(1): 257-267.

Szankowski, I., S. Waidmann, J. Degenhardt, A. Patocchi, R. Paris, E. Silfverberg-Dilworth, G. Brogginini and C. Gessler (2009). "Highly scab-resistant transgenic apple lines achieved by introgression of *HcrVf2* controlled by different native promoter lengths." *Tree Genetics & Genomes* 5(2): 349-358.

2010

Galli, P., G. A. L. Brogginini, C. Gessler and A. Patocchi (2010). "Phenotypic Characterization of the *Rvi15* (*Vr2*) Apple Scab Resistance." *Journal of Plant Pathology* 92(1): 219-226.

Galli, P., G. A. L. Brogginini, M. Kellerhals, C. Gessler and A. Patocchi (2010). "High-resolution genetic map of the *Rvi15* (*Vr2*) apple scab resistance locus." *Molecular Breeding* 26(4): 561-572.

Galli, P., A. Patocchi, G. A. L. Brogginini and C. Gessler (2010). "The *Rvi15* (*Vr2*) Apple Scab Resistance Locus Contains Three TIR-NBS-LRR Genes." *Molecular Plant-Microbe Interactions* 23(5): 608-617.

Hilber-Bodmer, M., M. Bunter and A. Patocchi (2010). "First report of brown rot caused by *Monilinia fructicola* on apricot in a Swiss orchard." *Plant Disease* 94(5): 643-643.

Le Roux, P. M. F., M. A. Khan, G. A. L. Brogginini, B. Duffy, C. Gessler and A. Patocchi (2010). "Mapping of quantitative trait loci for fire blight resistance in the apple cultivars 'Florina' and 'Nova Easygro'." *Genome* 53(9): 710-722.

2011

Evans, K. M., A. Patocchi, F. Rezzonico, F. Mathis, C. E. Durel, F. Fernandez-Fernandez, A. Boudichevskaia, F. Dunemann, M. Stankiewicz-Kosyl, L. Gianfranceschi, M. Komjanc, M. Lateur, M. Madduri, Y. Noordijk and W. E. van de Weg (2011). "Genotyping of pedigreed apple breeding material with a genome-covering set of SSRs: trueness-to-type of cultivars and their parentages." *Molecular Breeding* 28(4): 535-547.

Flachowsky, H., P. M. Le Roux, A. Peil, A. Patocchi, K. Richter and M. V. Hanke (2011). "Application of a high-speed breeding technology to apple (*Malus x domestica*) based on transgenic early flowering plants and marker-assisted selection." *New Phytologist* 192(2): 364-377.

Parravicini, G., C. Gessler, C. Denance, P. Lasserre-Zuber, E. Vergne, M. N. Brisset, A. Patocchi, C. E. Durel and G. A. L. Brogginini (2011). "Identification of serine/threonine kinase and nucleotide-binding site-leucine-rich repeat (NBS-LRR) genes in the fire blight resistance quantitative trait locus of apple cultivar 'Evereste'." *Molecular Plant Pathology* 12(5): 493-505.

Weger, J., M. Schanze, M. Hilber-Bodmer, T. H. M. Smits and A. Patocchi (2011). "First report of the beta-Tubulin E198A mutation conferring resistance to methyl benzimidazole carbamates in European isolates of *Monilinia fructicola*." *Plant Disease* 95(4): 497-497.

2012

Freiman, A., L. Shlizerman, S. Golobovitch, Z. Yablovitz, R. Korchinsky, Y. Cohen, A. Samach, E. Chevreau, P. M. Le Roux, A. Patocchi and M. A. Flaishman (2012). "Development of a transgenic early flowering pear (*Pyrus communis* L.) genotype by RNAi silencing of *PcTFL1-1* and *PcTFL1-2*." *Planta* 235(6): 1239-1251.

Gusberti, M., A. Patocchi, C. Gessler and G. A. L. Brogginini (2012). "Quantification of *Venturia inaequalis* Growth in *Malus x domestica* with Quantitative Real-Time Polymerase Chain Reaction." *Plant Disease* 96(12): 1791-1797.

Hilber-Bodmer, M., V. Knorst, T. H. M. Smits and A. Patocchi (2012). "First Report of Asian brown rot caused by *Monilia polystroma* on apricot in Switzerland." *Plant Disease* 96(1): 146-146.

Jansch, M., J. E. Frey, M. Hilber-Bodmer, G. A. L. Brogginini, J. Weger, G. Schnabel and A. Patocchi (2012). "SSR marker analysis of *Monilinia fructicola* from Swiss apricots suggests introduction of the pathogen from neighbouring countries and the United States." *Plant Pathology* 61(2): 247-254.

Le Roux, P. M., H. Flachowsky, M. V. Hanke, C. Gessler and A. Patocchi (2012). "Use of a transgenic early flowering approach in apple (*Malus x domestica* Borkh.) to introgress fire blight resistance from cultivar Evereste." *Molecular Breeding* 30(2): 857-874.

Le Roux, P. M. F., D. Christen, B. Duffy, S. Tartarini, L. Dondini, T. Yamamoto, C. Nishitani, S. Terakami, Y. Lespinasse, M. Kellerhals and A. Patocchi (2012). "Redefinition of the map position and validation of a major quantitative trait locus for fire blight resistance of the pear cultivar 'Harrow Sweet' (*Pyrus communis* L.)." *Plant Breeding* 131(5): 656-664.

Mouron, P., B. Heijne, A. Naef, J. Strassemeyer, F. Hayer, J. Avilla, A. Alaphilippe, H. Hohn, J. Hernandez, G. Mack, G. Gaillard, J. Sole, B. Sauphanor, A. Patocchi, J. Samietz, E. Bravin, C. Lavigne, M. Bohanec, B. Golla, C. Scheer, U. Aubert and F. Bigler (2012). "Sustainability assessment of crop protection systems: SustainOS methodology and its application for apple orchards." *Agricultural Systems* 113: 1-15.

Socquet-Juglard, D., A. Patocchi, J. Pothier, D. Christen, B. Duffy B (2012) Evaluation of *Xanthomonas arboricola* pv. *pruni* inoculation techniques to screen for bacterial spot resistance in peach and apricot. *Journal of Plant Pathology*. 94:91-96.

2013

Costa, F., L. Cappellin, E. Zini, A. Patocchi, M. Kellerhals, M. Komjanc, C. Gessler and F. Biasioli (2013). "QTL validation and stability for volatile organic compounds (VOCs) in apple." *Plant Science* 211: 1-7.

Socquet-Juglard, D., D. Christen, G. Devenes, C. Gessler, B. Duffy and A. Patocchi (2013). "Mapping architectural, phenological, and fruit quality QTLs in apricot." *Plant Molecular Biology Reporter* 31(2): 387-397.

Socquet-Juglard, D., B. Duffy, J. F. Pothier, D. Christen, C. Gessler and A. Patocchi (2013). "Identification of a major QTL for *Xanthomonas arboricola* pv. *pruni* resistance in apricot." *Tree Genetics & Genomes* 9(2): 409-421.

Socquet-Juglard, D., T. Kamber, J. F. Pothier, D. Christen, C. Gessler, B. Duffy and A. Patocchi (2013). "Comparative RNA-Seq analysis of early-infected peach leaves by the invasive phytopathogen *Xanthomonas arboricola* pv. *pruni*." *Plos One* 8(1):e54196

2014

Bink, M. C. A. M., J. Jansen, M. Madduri, R. E. Voorrips, C. E. Durel, A. B. Kouassi, F. Laurens, F. Mathis, C. Gessler, D. Gobbin, F. Rezzonico, A. Patocchi, M. Kellerhals, A. Boudichevskaia, F. Dunemann, A. Peil, A. Nowicka, B. Lata, M. Stankiewicz-Kosyl, K. Jeziorek, E. Pitera, A. Soska, K. Tomala, K. M. Evans, F. Fernandez-Fernandez, W. Guerra, M. Korbin, S. Keller, M. Lewandowski, W. Plochanski, K. Rutkowski, E. Zurawicz, F. Costa, S. Sansavini, S. Tartarini, M. Komjanc, D. Mott, A. Antofie, M. Lateur, A. Rondia, L. Gianfranceschi and W. E. van de Weg (2014). "Bayesian QTL analyses using pedigreed families of an outcrossing species, with application to fruit firmness in apple." *Theoretical and Applied Genetics* 127(5): 1073-1090.

Broggini, G. A. L., T. Wohner, J. Fahrentrapp, T. D. Kost, H. Flachowsky, A. Peil, M. V. Hanke, K. Richter, A. Patocchi and C. Gessler (2014). "Engineering fire blight resistance into the apple cultivar 'Gala' using the FB_MR5 CC-NBS-LRR resistance gene of *Malus x robusta* 5." *Plant Biotechnology Journal* 12(6): 728-733.

Jansch, M., R. Paris, F. Amoako-Andoh, W. Keulemans, M. W. Davey, G. Pagliarani, S. Tartarini and A. Patocchi (2014). "A Phenotypic, molecular and biochemical characterization of the first cisgenic scab-resistant apple variety 'Gala'." *Plant Molecular Biology Reporter* 32(3): 679-690.

Padmarasu, S., D. J. Sargent, M. Jaensch, M. Kellerhals, S. Tartarini, R. Velasco, M. Troglio and A. Patocchi (2014). "Fine-mapping of the apple scab resistance locus *Rvi12* (*Vb*) derived from 'Hansen's baccata #2'." *Molecular Breeding* 34(4): 2119-2129.

2015

Baumgartner, I. O., A. Patocchi, J. E. Frey, A. Peil, and M. Kellerhals (2015) Breeding elite lines of apple carrying pyramided homozygous resistance genes against apple scab and resistance against powdery mildew and fire blight. *Plant Molecular Biology Reporter*: 10.1007/s11105-015-0858-x

Caffier, V., Patocchi, A., Expert, P., Bellanger, M. N., Durel, C. E., Hilber-Bodmer, M., GAL Broggin, G.A.L, Groenwold, R. and Bus, V. (2014). Virulence characterization of *Venturia inaequalis* reference isolates on the differential set of *Malus* hosts. *Plant Disease*, 99(3):370-375.

Cova V., Lewke Bandara N., Liang W., Tartarini S., Patocchi A., Troglio M., Velasco R., and M. Komjanc (2015) Fine mapping of the *Rvi5* (*Vm*) apple scab resistance locus in the 'Murray' apple genotype. *Molecular breeding* 35 (10): 200.

Jansch, M., G. A. L. Broggin, J. Weger, V. G. M. Bus, S. E. Gardiner, H. Bassett and A. Patocchi (2015). "Identification of SNPs linked to eight apple disease resistance loci." *Molecular Breeding* 35(1). 10.1007/s11032-015-0242-4

Kost T., Gessler C., Jäensch M., Flachowsky H., Patocchi A., and G.A.L. Broggin (2015) Development of the first cisgenic apple with increased resistance to fire blight. *PLoS one* 10 (12): e0143980

2016

Lambert P., Campoy J.A., Pacheco I., Mauroux J.-B., Da Silva Linge C., Micheletti D., Bassi D., Rossini L., Dirlewanger E., Pascal T., Troglio M., Aranzana M.-J., Patocchi A., and P. Arús (2016) Identifying SNP markers tightly associated with six major genes in peach [*Prunus persica* (L.) Batsch] using a high-density SNP array with an objective of marker-assisted selection (MAS). *Tree Genetics & Genomes* 12 (6): 121.

Baumgartner, I. O., Kellerhals, M., Costa, F., Dondini, L., Pagliarani, G., Gregori, R., Tartarini, S., Leumann, L., Laurens, F., and Patocchi, A. (2016). Development of SNP-based assays for disease resistance and fruit quality traits in apple (*Malus domestica* Borkh.) and validation in breeding pilot studies. *Tree genetics & genomes*, 12(3), 1-21.

2017

Cova, V., Paris, R., Toller, C., Patocchi, A., Velasco, R., and Komjanc, M. (2017). Apple genes involved in the response to *Venturia inaequalis* and salicylic acid treatment. *Scientia Horticulturae*, 226, 157-172.

2018

Laurens, F., Aranzana, M. J., Arus, P., Bassi, D., Bink, M., Bonany, J., Caprara, A., Corelli-Grappelli, L., Costes, E., Durel, C.-E., Mauroux, J.-B., Muranty, H., Nazzicari, N., Pascal, T., Patocchi, A., Peil, A., Quilot-Turion, B., Rossini, L., Stella, A., Troglio, M., Velasco, R., and Van De Weg, E. (2018). An integrated approach for increasing breeding efficiency in apple and peach in Europe. *Horticulture research*, 5(1), 1-14.

Padmarasu, S., Sargent, D. J., Patocchi, A., Troglio, M., Baldi, P., Linsmith, G., Poles, L., Jäensch, M., Kellerhals, M., Tartarini, S., and Velasco, R. (2018). Identification of a leucine-rich repeat receptor-like serine/threonine-protein kinase as a candidate gene for *Rvi12* (*Vb*)-based apple scab resistance. *Molecular Breeding*, 38(6), 1-14.

Peil, A., Patocchi, A., Hanke, M. V., and Bus, V. G. (2018). Apple cultivar Regia possessing both *Rvi2* and *Rvi4* resistance genes is the source of a new race of *Venturia inaequalis*. *European journal of plant pathology*, 151(2), 533-539.

Schlathölter, I., Jäensch, M., Flachowsky, H., Broggin, G. A. L., Hanke, M. V., and Patocchi, A. (2018). Generation of advanced fire blight-resistant apple (*Malus domestica*) selections of the fifth generation within 7 years of applying the early flowering approach. *Planta*, 247(6), 1475-1488.

Van de Weg, E., Di Guardo, M., Jäensch, M., Socquet-Juglard, D., Costa, F., Baumgartner, I., Broggin, G.A.L., Kellerhals, M., Troglio, M., Laurens, F., Durel, C.-E., and Patocchi, A. (2018). Epistatic fire blight resistance QTL alleles in the apple cultivar 'Enterprise' and selection X-6398 discovered and characterized through pedigree-informed analysis. *Molecular breeding*, 38(1), 1-18.

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