

# Publications

Tohge T, Scossa F, Wendenburg R, **Frasse P**, Balbo I, Watanabe M, Alseekh S, Jadhav SS, Delfin JC, Lohse M, Giavalisco P, Usadel B, Zhang Y, Luo J, **Bouzayen M**, Fernie AR. Exploiting the natural variation in tomato to define pathway structure and metabolic regulation of fruit polyphenolics in the lycopersicum complex. *Mol Plant*. 2020 Apr 16. <https://pubmed.ncbi.nlm.nih.gov/32305499/>

Van Der Straeten D, Kanellis A, Kalaitzis P, **Bouzayen M**, Chang C, Mattoo A, Zhang JS. Editorial: Ethylene Biology and Beyond: Novel Insights in the Ethylene Pathway and Its Interactions. *Front Plant Sci*. 2020 Mar 12;11:248. <https://doi.org/10.3389/fpls.2020.00248>

Liang Q, Deng H, Li Y, Liu Z, Shu P, Fu R, Zhang Y, **Pirrello J**, Zhang Y, Grierson D, **Bouzayen M**, Liu Y, Liu M. Like Heterochromatin Protein 1b represses fruit ripening via regulating the H3K27me3 levels in ripening-related genes in tomato. *New Phytol*. 2020 Mar 17. <https://doi.org/10.1111/nph.16550>

**Bouzroud S, Gasparini K, Hu G, Barbosa MAM, Rosa BL, Fahr M, Bendaou N, Bouzayen M, Zsögön A, Smouni A, Zouine M.** Down Regulation and Loss of *Auxin Response Factor 4* Function Using CRISPR/Cas9 Alters Plant Growth, Stomatal Function and Improves Tomato Tolerance to Salinity and Osmotic Stress. *Genes (Basel)*. 2020 Mar 3;11(3), 272. <https://doi.org/10.3390/genes11030272>

**Chen Y, Su D, Li J, Ying S, Deng H, He X, Zhu Y, Li Y, Chen Y, Pirrello J, Bouzayen M, Liu Y, Liu M.** Overexpression of SlbHLH95, a basic helix-loop-helix transcription factor family member, impacts trichome formation via regulating gibberellin biosynthesis in tomato. *J Exp Bot*. 2020 Mar 5. <https://doi.org/10.1093/jxb/eraa114>

**Chen Y, Hu G, Rodriguez C, Liu M, Binder BM, Chervin C.** Roles of SIETR7, a newly discovered ethylene receptor, in tomato plant and fruit development. *Hortic Res*. 2020 Feb 1;7:17. <https://hal.inrae.fr/hal-02625986/document>

**An J, Althiab Almasaud R, Bouzayen M, Zouine M, Chervin C.** Auxin and ethylene regulation of fruit set. *Plant Sci*. 2020 Mar;292:110381. <https://pubmed.ncbi.nlm.nih.gov/32005386/>

**Chen Y, Althiab Almasaud R, Carrie E, Desbrosses G, Binder BM, Chervin C.** Ethanol, at physiological concentrations, affects ethylene sensing in tomato germinating seeds and seedlings. *Plant Sci*. 2020 Feb;291:110368. <https://hal.archives-ouvertes.fr/hal-02874943/document>

**Liu Y, Shi Y, Zhu N, Zhong S, Bouzayen M, Li Z.** SIGRAS4 mediates a novel regulatory pathway promoting chilling tolerance in tomato. *Plant Biotechnol J*. 2020 Jan 9, pp. 1–14. <https://doi.org/10.1111/pbi.13328>

**Li S, Zhu B, Pirrello J, Xu C, Zhang B, Bouzayen M, Chen K, Grierson D.** Roles of RIN and ethylene in tomato fruit ripening and ripening-associated traits. *New Phytol*. 2019 Dec 8. <https://doi.org/10.1111/nph.16362>

**Chen Y, Rofidal V, Hem S, Gil J, Nosarzewska J, Berger N, Demolombe V, Bouzayen M, Azhar BJ, Shakeel SN, Schaller GE, Binder BM, Santoni V, Chervin C.** Targeted proteomics allows quantification of ethylene receptors and reveals SIETR3 accumulation in Never-Ripe tomatoes. *Front Plant Sci.* 2019 10:1054. <https://doi.org/10.3389/fpls.2019.01054>

**Chervin, C., and Fennell, A.** Ethanol sprays to release grapevine bud dormancy: a potential alternative to cyanamides. *OENO One*, 2019, 53:661-666. <https://hal.archives-ouvertes.fr/hal-02445999/document>

**Jian W, Cao H, Yuan S, Liu Y, Lu J, Lu W, Li N, Wang J, Zou J, Tang N, Xu C, Cheng Y, Gao Y, Xi W, Bouzayen M, Li Z.** SIMYB75, an MYB-type transcription factor, promotes anthocyanin accumulation and enhances volatile aroma production in tomato fruits. *Hortic Res.* 2019, Feb 1;6:22. doi: [10.1038/s41438-018-0098-y](https://doi.org/10.1038/s41438-018-0098-y)

**Jun-Hye Shin, Isabelle Mila, Mingchun Liu, Maria Aurineide Rodrigues, Teva Vernoux, Julien Pirrello and Mondher Bouzayen.** The RIN-regulated Small Auxin-Up RNA SAUR69 is involved in the unripe-to-ripe phase transition of tomato fruit via enhancing sensitivity to ethylene. *New Phytol.* 2019 Apr;222(2):820-836. doi: [10.1111/nph.15618](https://doi.org/10.1111/nph.15618)

**Sorroche F, Walch M, Zou L, Rengel D, Maillet F, Gibelin-Viala C, Poinot V, Chervin C, Masson-Boivin C, Gough C, Batut J, Garnerone AM.** Endosymbiotic *Sinorhizobium meliloti* modulate *Medicago* root susceptibility to secondary infection via ethylene. *New Phytol.* 2019, Aug;223(3):1505-1515. doi: [10.1111/nph.15883](https://doi.org/10.1111/nph.15883)

**Pecrix Y, Staton SE, Sallet E, Lelandais-Brière C, Moreau S, Carrère S, Blein T, Jardinaud MF, Latrasse D, Zouine M, Zahm M, Kreplak J, Mayjonade B, Satgé C, Perez M, Cauet S, Marande W, Chantry-Darmon C, Lopez-Roques C, Bouchez O, Bérard A, Debelle F, Muños S, Bendahmane A, Bergès H, Niebel A, Buitink J, Frugier F, Benhamed M, Crespi M, Gouzy J, Gamas P.** Whole-genome landscape of *Medicago truncatula* symbiotic genes. *Nat Plants.* 2018 Nov 5. doi:10.1038/s41477-018-0286-7.

**Ambrosino L, Ruggieri V, Bostan H, Miralto M, Vitulo N, Zouine M, Barone A, Bouzayen M, Frusciantè L, Pezzotti P, Valle G and Luisa Chiusano M.** Multilevel comparative bioinformatics to investigate evolutionary relationships and specificities in gene annotations: an example for tomato and grapevine. *BMC Bioinformatics* 2018. doi: [10.1186/s12859-018-2420-y](https://doi.org/10.1186/s12859-018-2420-y).

**A Bakshi, S Piya, JC Fernandez, C Chervin, T Hewezi, B Binder.** Ethylene Receptors Signal via a Noncanonical Pathway to Regulate Abscisic Acid Responses. *Plant Physiology* 2018, 176: 910-929, doi: [10.1104/pp.17.01321](https://doi.org/10.1104/pp.17.01321).

**Y Chen, J Grimplet, K David, SD Castellarin, J Terol, DCJ Wong, Z Luo, R Schaffer, JM Celton, M Talon, GA Gambetta, C Chervin.** Ethylene receptors and related proteins in climacteric and non-climacteric fruits. *Plant Science*, 2018. 276: 63-72, doi.org/10.1016/j.plantsci.2018.07.012

**Deng H, Pirrello J, Chen Y, Li N, Zhu S, Chirinos X, Bouzayen M, Liu Y, Liu M.** A novel tomato F-box protein, SIEBF3, is involved in tuning ethylene signaling during plant development and climacteric fruit ripening. *Plant J.* 2018 May 23. doi: 10.1111/tpj.13976.

**Djemal R, Mila I, Bouzayen M, Pirrello J, Khoudi H.** Molecular cloning and characterization of novel WIN1/SHN1 ethylene responsive transcription factor HvSHN1 in barley (*Hordeum vulgare L.*). *J Plant Physiol.* 2018 Sep;228:39-46. doi: 10.1016/j.jplph.2018.04.019.

**Lamarre S, Frasse P, Zouine M, Labourdette D, Sainderichin E, Hu G, Le Berre-Anton V, Bouzayen M, Maza E.** Optimization of an RNA-Seq Differential Gene Expression Analysis Depending on Biological Replicate Number and Library Size. *Front Plant Sci.* 2018 Feb 14;9:108. doi: 10.3389/fpls.2018.00108.

**Bouzroud S, Gouiaa S, Hu N, Bernadac A, Mila I, Bendaou N, Smouni A, Bouzayen M, Zouine M.** Auxin Response Factors (ARFs) are potential mediators of auxin action in tomato response to biotic and abiotic stress (*Solanum lycopersicum*). *PLoS One.* 2018 Feb 28;13(2):e0193517. doi: 10.1371/journal.pone.0193517.

**Pirrello J, Deluche C, Frangne N, Gévaudant F, Maza E, Djari A, Bourge M, Renaudin JP, Brown S, Bowler C, Zouine M, Chevalier C, Gonzalez N.** Transcriptome profiling of sorted endoreduplicated nuclei from tomato fruits: how the global shift in expression ascribed to DNA ploidy influences RNA-Seq data normalization and interpretation. *The Plant Journal* 2018 Jan;93(2):387-398. doi: 10.1111/tpj.13783.

**Klay I, Gouia S, Liu M, Mila I, Khoudi H, Bernadac A, Bouzayen M, Pirrello J.** Ethylene Response Factors (ERF) are differentially regulated by different abiotic stress types in tomato plants. *Plant Sci.* 2018 Sep;274:137-145. doi: 10.1016/j.plantsci.2018.05.023.

**Zouine M, Maza E, Djari A, Lauvernier M, Frasse P, smouni A, Pirrello J, Bouzayen M.** TomExpress, a unified tomato RNA-Seq platform for visualization of expression data, clustering and correlation networks. *The Plant Journal* 2017 Sep 29. doi: 10.1111/vox.12570

**Huang B, Routaboul JM, Liu M, Deng W, Maza E, Mila I, Hu G, Zouine M, Frasse P, Vrebalov JT, Giovannoni J, Li Z, van der Rest B and Bouzayen M.** Overexpression of class D MADS-box SI-AGL11 impacts fleshy tissue differentiation and structure in tomato fruit. *J Exp Bot.* 2017 Sep 14. doi: 10.1093/jxb/erx303.

**M Le Henry, M Charton, M Alignan, P Maury, A Luniov, I Pelletier, PY Pontalier, BM Binder, C Vaca-Garcia, C Chervin.** 2017. Ethylene stimulates growth and affects fatty acid content of *Synechocystis* sp. PCC 6803. *Algal Research*, 26: 234-239, doi: 10.1016/j.algal.2017.07.032.

**Guillot B, Etemadi M, Audran C, Bouzayen M, Bécard G, Combier JP.** SI-IAA27 regulates strigolactone biosynthesis and mycorrhization in tomato (var. MicroTom). *New Phytol.* 2017 Feb;213(3):1124-1132. doi: 10.1111/nph.14246;

**Yousfi FE, Makhloufi E, Marande W, Ghorbel AW, Bouzayen M, Bergès H.** Comparative Analysis of WRKY Genes Potentially Involved in Salt Stress Responses in *Triticum turgidum* L. ssp. durum. *Front Plant Sci.* 2017 Jan 31;7:2034. doi: 10.3389/fpls.2016.02034;

**Maza E.** (2016) In papyro comparison of TMM (edgeR), RLE (DESeq2) and MRN normalization methods for a simple two-conditions-without-replicates RNA-Seq experimental design. *Statistical Genetics and Methodology* (in press).

**Chaabouni S, Pirrello J, Liu M, El-Sharkawy I, Roustan JP, Bouzayen M.** (2016) Identification and functional characterization of two *HOOKLESS* genes in Tomato (*Solanum lycopersicum*). *Journal of Plant Physiology* 200: 76-81.

**Breitel D, Chappell-Maor, Sagit Meir L, Panizel I, Pons Puig C, Hao Y, Yifhar T, Yasuor H, Zouine M, Bouzayen M, Granell Richart A, Rogachev I and Aharoni A.** (2016) AUXIN RESPONSE FACTOR 2 intersects hormonal signals in the regulation of Tomato fruit ripening. *PLoS Genetics* 12(3): e1005903.

**Liu M, Lima Gomes B, Mila I, Purgatto E, Peres LE, Frasse P, Maza E, Zouine M, Roustan JP, Bouzayen M and Pirrello J.** (2016) Comprehensive profiling of Ethylene Response Factors expression identifies ripening-associated ERF genes and their link to key regulators of fruit ripening in tomato (*Solanum lycopersicum*). *Plant Physiology* 170(3):1732-44.

**Corso M, Vannozzi A, Ziliotto F, Zouine M, Nicolato T, Maza E, Vitulo N, Meggio F, Valle G, Bouzayen M, Müller M, Munné-Bosch S, Lucchin M, Bonghi C** (2016). Grapevine rootstocks differentially affect the rate of ripening and modulate auxin-related genes in Cabernet Sauvignon berries. *Frontiers in Plant Science* 7: 69.

**Liu M, Pirrello J, Chervin C, Roustan JP, Bouzayen M.** (2015) Ethylene Control of Fruit Ripening: Revisiting the Complex Network of Transcriptional Regulation. *Plant Physiology* 169 (4):2380-90. doi: 10.1104/pp.15.01361.

**Hao Y., Hu G., Breitel D., Liu M., Mila I., Frasse P., Aharoni A., Bouzayen M. and Zouine M.** (2015) Auxin Response Factor SIARF2 Is an Essential Component of the Regulatory Mechanism Controlling Fruit Ripening in Tomato. *PLoS Genet* Dec 30;11(12):e1005649. doi: 10.1371/journal.pgen.1005649. eCollection 2015.

**Su L, Diretto G, Purgatto E, Danoun S, Zouine M, Li Z, Roustan JP, Bouzayen M, Giuliano G, Chervin C** (2015) Carotenoid accumulation during tomato fruit ripening is modulated by the auxin-ethylene balance. *BMC Plant Biology* 15:114

**Su L, Audran C, Bouzayen M, Roustan JP, Chervin C** (2015) The Aux/IAA, SI-IAA17 regulates quality parameters over tomato fruit development. *Plant Signaling Behavior*. PMID: 26317283

**Severo J, Tiecher A, Pirrello J, Regad F, Latché A, Pech JC, Bouzayen M, Valmor Rombaldi C** (2015) UV-C radiation modifies the ripening and accumulation of ethylene

response factor (ERF) transcripts in tomato fruit. **Postharvest Biology and Technology** 102:9-16

**Liu R, How-Kit A, Stammitti L, Teyssier E, Rolin D, Mortain-Bertrand A, Halle S, Liu M, Kong J, Wu C, Degraeve-Guibault C, Chapman NH, Maucourt M, Hodgman TC, Tost J, Bouzayen M, Hong Y, Seymour GB, Giovannoni JJ, Gallusci P** (2015) A DEMETER-like DNA demethylase governs tomato fruit ripening. **Proceedings of the National Academy of Sciences U S A.** 112(34):10804-9. doi: 10.1073/pnas.1503362112

**Mazzucato A, Cellini F, Bouzayen M, Zouine M, Mila I, Minoia S, Petrozza A, Picarella ME, Ruiu F, Carriero F** (2015) A TILLING allele of the tomato Aux/IAA9 gene offers new insights into fruit set mechanisms and perspectives for breeding seedless tomatoes. **Plant Breeding** 35:22

**Bouaziz D, Charfeddine M, Jbir R, Saidi MN, Pirrello J, Charfeddine S, Bouzayen B, Gargouri-Bouزيد R** (2015) Identification and functional characterization of ten AP2/ERF genes in potato. **Plant Cell Tissue and Organ Culture** 123 (1): 155-172 DOI: 10.1007/s11240-015-0823-2

**Makhloufi E, Yousfi FE, Pirrello J, Bernadac A, Ghorbel A, Bouzayen M** (2015) TdERF1, an Ethylene Response Factor associated with dehydration responses in durum wheat (*Triticum turgidum* L. subsp. durum). **Plant Signaling Behavior** PMID:26338450

**Corso M, Vannozzi A, Maza E, Vitulo N, Meggio F, Pitacco A, Telatin A, D'Angelo M, Feltrin E, Negri AS, Prinsi B, Valle G, Ramina A, Bouzayen M, Bonghi C, Lucchin M** (2015) Comprehensive transcript profiling of two grapevine rootstock genotypes contrasting in drought susceptibility links the phenylpropanoid pathway to enhanced tolerance. **Journal of Experimental Botany** doi: 10.1093/jxb/erv274

**Yu H, Soler M, San Clemente H, Mila I, Paiva JAP, Myburg AA, Bouzayen M, Grima-Pettenati J, Cassan-Wang H** (2015) Comprehensive Genome-wide Analysis of the Aux/IAA Gene Family in Eucalyptus: Evidence for the Role of EgrIAA4 in Wood Formation. **Plant Cell Physiology** 56(4):700-14

**Putranto RA, Duan C, Kuswanhadi, Chaidamsari T, Rio M, Piyatrakul P, Herlinawati E, Pirrello J, Dessailly F, Leclercq J, Bonnot F, Tang C, Hu S, Montoro P** (2015) Ethylene Response Factors are controlled by multiple harvesting stresses in *Hevea brasiliensis*. **PLoS One** 10(4):e0123618

**Putranto RA, Herlinawati E, Rio M, Leclercq J, Piyatrakul P, Gohet E, Sanier C, Oktavia F, Pirrello J, Kuswanhadi, Montoro P** (2015) Involvement of ethylene in the latex metabolism and tapping panel dryness of *Hevea brasiliensis*. **Int J Mol Sci.** 2015 16(8):17885-908. doi: 10.3390/ijms160817885.

**Su L, Bassa C, Audran C, Cheniclet C, Chevalier C, Bouzayen M, Roustan JP, Chervin C** (2014) The auxin response *SI-IAA17* transcriptional repressor controls fruit size via the regulation of the endoreduplication-related cell expansion. **Plant Cell Physiology** 55(11):1969-1976

**Yu H, Soler M, Mila I, San Clemente H, Dunand C, Paiva J. A. P., Bouzayen M, Grima-Pettenati J, Cassan-Wang H.** (2014) Genome-wide characterization and expression profiling of the *AUXIN RESPONSE FACTOR (ARF)* gene family in *Eucalyptus grandis*. **PLoS ONE** 9(9), e108906

**Etemadi M, Gutjahr C, Couzigou J-M, Zouine M, Laouressergues D, Timmers A, Audran C, Bouzayen M, Becard G, Combiér J-P.** (2014) Auxin perception is required for arbuscule development in arbuscular mycorrhizal symbiosis. **Plant Physiology** 166:281-292

**Klay I, Pirrello J, Riahi L, Bernadac A, Cherif A, Bouzayen M, Bouzid S** (2014) Ethylene response factor *Sl-ERF.B.3* is responsive to abiotic stresses and mediates salt and cold stress response regulation in tomato. **The Scientific World Journal** id 167681

**Makhloufi E, Yousfi F, Marande W, Mila I, Hanana M, Bergès H, Mzid R, Bouzayen M** (2014) Isolation and molecular characterization of *TdERF1*, an Ethylene Response Factor gene from durum wheat (*Triticum turgidum* L. subsp. *durum*), potentially involved in salt stress responses. **Journal of Experimental Botany** 65:6359-6371

**El-Sharkawy I, Sherif S, Jones B, Mila I, Kumar P, Bouzayen M, Jayasankar S** (2014). TIR1-like auxin-receptors are involved on the regulation of plum fruit development. **Journal of Experimental Botany** 65(18):5205-5215

**Dimeglio C, Gallon S, Loubes JM, Maza E** (2014) A robust algorithm for template curve estimation based on manifold embedding. **Computational Statistics and Data Analysis** 70:373-386

**Andrianasolo FN, Casadebaig P, Maza E, Champolivier L, Maury P, Debaeck P.** 2014. Prediction of sunflower grain oil concentration as a function of variety crop management and environment using statistical models. **European Journal of Agronomy** 54:84-96

**Liu M, Diretto G, Pirrello J, Roustan JP, Li Z, Giuliano G, Regad F, Bouzayen M** (2014) The chimeric repressor version of an Ethylene Response Factor (ERF) family member, *Sl-ERF.B3*, shows contrasting effects on tomato fruit ripening. **New Phytologist** 203:206-218

**Hao Y, Wang X, Li X, Bassa C, Mila I, Audran C, Maza E, Li Z, Bouzayen M, van der Rest B, Zouine M** (2014) Genome-wide Identification, phylogenetic analysis, expression profiling and protein-protein interaction properties of the TOPLESS gene family members in tomato. **Journal of Experimental Botany** 65:1013-23

**Zouine M, Fu Y, Chateigner-Boutin AL, Mila I, Frasse P, Wang H, Audran C, Roustan JP, Bouzayen M** (2014) Characterization of the tomato ARF gene family uncovers a multi-levels post-transcriptional regulation including alternative splicing. **PLoS ONE** 9, e84203

**Masclaux-Daubresse C, Anne P, Clément G, Routaboul JM, Guiboileau A, Soulay F, Shirasu K, Yoshimoto K** (2014) Stitching together the multiple dimensions of autophagy using metabolomic and transcriptomic analysis reveals new impacts of autophagy defects on metabolism, development and plant response to environment. **Plant Cell** 26(5):1857-1877

**David LC, Dechorgnat J, Berquin P, Routaboul JM, Debeaujon I, Daniel-Vedell F, Ferrario-Méry S** (2014) Proanthocyanidin oxidation of Arabidopsis seeds is altered in mutant 2 of the high affinity nitrate transporter NRT2.7. **Journal of Experimental Botany** 65(3):885-893

**Yauk YK, Ged C, Wang MY, Matich AJ, Tessarotto L, Cooney JM, Chervin C, Atkinson RG** (2014). Manipulation of flavour and aroma compound sequestration and release using a glycosyltransferase with specificity for terpenes and C-6 'grassy-green' alcohols. **Plant Journal** 80:317-330

**Hu N., Tang N., Yan F., Bouzayen M., Li Z.G.** (2014) Effect of *LeERF1* and *LeERF2* overexpression in the response to salinity of young tomato (*Solanum lycopersicum* cv. Micro-Tom) seedlings. **Acta Physiologiae Plantarum** 36:1703-1712

**Sagar M, Chervin C, Roustan JP, Bouzayen M, Zouine M** (2013) Under-expression of the Auxin Response Factor SI-ARF4 improves post-harvest behavior of tomato fruits. **Plant Signaling and Behavior** 8, e25647

**Bassa C, Etemadi M, Combier JP, Bouzayen M, Audran-Delalande C** (2013) SI-IAA27 gene expression is induced during arbuscular mycorrhizal symbiosis in tomato and in *Medicago truncatula*. **Plant Signaling and Behavior** 8, e25637

**Maza E, Frasse P, Senin P, Bouzayen M, Zouine M** (2013) Comparison of normalization methods for differential gene expression analysis in RNA-Seq experiments: A matter of relative size of studied transcriptomes. **Communicative and Integrative Biology** 6, e25849

**Liu M, Pirrello J, Kesari R, Mila I, Roustan JP, Li ZG, Latché A, Pech JC, Bouzayen M, Regad F** (2013) A dominant repressor version of the tomato *SI-ERF.B3* gene confers ethylene hypersensitivity via feedback regulation of ethylene signaling and response components. **Plant Journal** 76:406-419

**Gallón S, Loubes JM, Maza E** (2013) Statistical Properties of the Quantile Normalization Method for Density Curve Alignment. **Mathematical Biosciences** 242(2):129-142

**Gonçalves CX, Tiecher A, Chaves FC, Nora L, Li ZG, Latché A, Pech JC, Rombaldi CV** (2013) Putative role of cytokinin in differential ethylene response of two lines of antisense ACC oxidase cantaloupe melons. **Postharvest Biology and Technology** 86:511-519

**Sagar M, Chervin C, Mila I, Hao Y, Roustan JP, Benichou M, Gibon Y, Biais B, Maury P, Latché A, Pech JC, Bouzayen M, Zouine M** (2013) SI-ARF4, an Auxin Response Factor involved in the control of sugar metabolism during tomato fruit development. **Plant Physiology** 161:1362-1374

**Corbacho J, Romojaro F, Pech JC, Latché A, Gomez-Jimenez MC** (2013) Transcriptomic events involved in melon mature-fruit abscission comprise the sequential induction of cell-wall degrading genes coupled to a stimulation of endo and exocytosis. **PLoS ONE** 8, e58363

**Bouaziz D, Pirrello J, Charfeddine M, Hammami A, Jbir R, Dhieb A, Bouzayen M, Gargouri-Bouzid R** (2013) Overexpression of StDREB1 Transcription Factor Increases Tolerance to Salt in Transgenic Potato Plants. **Molecular Biotechnology** 54(3):803-817

**Ecarnot M, Baczyk P, Tessarotto L, Chervin C** (2013) Rapid phenotyping of the tomato fruit model MicroTom with a portable VIS-NIR spectrometer. **Plant Physiology and Biochemistry** 70:159-163

**Giraldi CL, Rombaldi CV, Dal Caro J, Nobile PM, Laurens F, Bouzayen M, Quecini V** (2013) Genome-wide analysis of the AP2/ERF superfamily in apple and transcriptional evidence of ERF involvement in scab pathogenesis. **Scientia Horticulturae** 151:112-121

**Muñoz-Robredo, P., Gudenschwager, O., Chervin, C., Campos-Vargas, R., González-Agüero, M., Defilippi, B.G.** (2013). Study on differential expression of 1-aminocyclopropane-1-carboxylic acid oxidase genes in table grape cv. Thompson Seedless. **Postharvest Biology and Technology** 76:163-169

**Pech JC, Purgatto E, Girardi CL, Rombaldi CV, Latché A** (2013) Current challenges in postharvest biology of fruit ripening. **Current Agricultural Science and Technology** 19:1-18

**Pech JC, Latché A** (2013) Contribution of genomics to postharvest biology. **Stewart Postharvest Review** 4, 2 doi:10.2212/spr.2013.4.2

**Tonfack LB, Youmbi E, Amougou A, Bernadac A** (2013) Effect of organic/inorganic-balanced fertilizers on yield and temporal nutrient allocation of tomato fruits under andosol soil conditions in sub-saharan africa. **International Journal of Agricultural and Food Research** 2:27#37

**Xu W, Grain D, Le Gourrierc J, Harscoët E, Berger A, Jauvion V, Scagnelli A, Berger N, Bidzinski P, Kelemen Z, Salsac F, Baudry A, Routaboul JM, Lepiniec L, Dubos C** (2013), Regulation of flavonoid biosynthesis involves an unexpected complex transcriptional regulation of TT8 expression, in Arabidopsis, **New Phytologist** 198: 59-70

**Schaart J, Dubos C, Romero De La Fuente I, Van Houweling A, Jonker A, Routaboul JM, Lepiniec L, Bovy A** (2013) Identification and characterization of MYB-bHLH-WD40 regulatory complexes controlling proanthocyanidin biosynthesis in strawberry (*Fragaria xananassa*) fruits. **New Phytologist** 197:454-67

**Sato S, ... Zouine M, Frasse P, Rousseau C, Philippot M, Latché A, Regad F, Delalande C, Pech JC, Bouzayen M, ... , Consortium TG** (2012) The tomato genome sequence provides insights into fleshy fruit evolution. **Nature** 485, 635-641. doi: 10.1038/nature11119

**Barsan C, Zouine M, Maza E, Bian W, Egea I, Rossignol M, Bouyssié D, Pichereaux C, Purgatto E, Bouzayen M, Latche A, Pech JC** (2012) Proteomic analysis of chloroplast-to-chromoplast transition in tomato reveals metabolic shifts coupled with disrupted thylakoid



biogenesis machinery and elevated energy-production components. **Plant Physiology**. 160:708-725

**Audran-Delalande C, Bassa C, Mila I, Regad F, Zouine M, Bouzayen M** (2012) Genome-wide identification, functional analysis and expression profiling of the Aux/IAA gene family in tomato. **Plant Cell Physiology** 53:659-672

**Bassa C, Mila I, Bouzayen M, Audran-Delalande C** (2012) Phenotypes associated with down-regulation of Sl-IAA27 support functional diversity among Aux/IAA family members in tomato. **Plant Cell Physiology** 53:1583-1595

**Pirrello J, Prasad N, Zhang W, Chen K, Mila I, Zouine M, Latche A, Pech JC, Ohme-Takagi M, Regad F, Bouzayen M** (2012) Functional analysis and binding affinity of tomato ethylene response factors provide insight on the molecular bases of plant differential responses to ethylene. **BMC Plant Biology** 12,190

**Li J, Li Z, Tang L, Yang Y, Zouine M, Bouzayen M** (2012) A conserved phosphorylation site regulates the transcriptional function of ETHYLENE-INSENSITIVE3-like1 in tomato. **Journal of Experimental Botany** 63:427-439

**Moummou H, Kallberg Y, Tonfack LB, Persson B, van der Rest B** (2012) The Plant Short-Chain Dehydrogenase (SDR) superfamily: genome-wide inventory and diversification patterns. **BMC Plant Biology** 12, 219

**Moummou H, Tonfack LB, Chervin C, Benichou M, Youmbi E, Ginies C, Latche A, Pech JC, van der Rest B** (2012) Functional characterization of SlscADH1, a fruit-ripening-associated short-chain alcohol dehydrogenase of tomato. **Journal of Plant Physiology** 169:1435-1444

**Bouaziz D, Pirrello J, Ben Amor H, Hammami A, Charfeddine M, Dhieb A, Bouzayen M, Gargouri-Bouzid R** (2012) Ectopic expression of dehydration responsive element binding proteins (StDREB2) confers higher tolerance to salt stress in potato. **Plant Physiology and Biochemistry**. 60:98-108

**Ruan YL, Patrick JW, Bouzayen M, Osorio S, Fernie AR** (2012) Molecular regulation of seed and fruit set. **Trends Plant Science** 17: 656-665

**El-Sharkawy I, Sherif S, Mahboob A, Abubaker K, Bouzayen M, Jayasankar S** (2012) Expression of auxin-binding protein1 during plum fruit ontogeny supports the potential role of auxin in initiating and enhancing climacteric ripening. **Plant Cell Reports** 31:1911-1921

**Deng W, Yang Y, Ren Z, Audran-Delalande C, Mila I, Wang X, Song H, Hu Y, Bouzayen M, Li Z** (2012) The tomato SlIAA15 is involved in trichome formation and axillary shoot development. **New Phytologist** 194:379-390

**El-Sharkawy I, El Kayal W, Prasath D, Fernandez H, Bouzayen M, Svircev AM, Jayasankar S** (2012) Identification and genetic characterization of a gibberellin 2-oxidase gene that controls tree stature and reproductive growth in plum. **Journal of Experimental Botany** 63:225-1239

**Lesic B, Zouine M, Ducos-Galand M, Huon C, Rosso ML, Prevost MC, Mazel D, Carniel E** (2012) A natural system of chromosome transfer in *Yersinia pseudotuberculosis*. **PLoS Genet** 8, e1002529

**Routaboul JM, Dubos C, Beck G, Marquis C, Bidzinski P, Loudet O, Lepiniec L** (2012) Metabolomic and quantitative genetics Analysis of natural variation for flavonoids in *Arabidopsis*, **Journal of Experimental Botany** 63:3749-64

**Routaboul JM, Skidmore C, Wallis J, Browse J** (2012) Trienoic fatty acids are required for plant survival at high temperature, **Journal of Experimental Botany** 63(3):1435-43.

## 2011

**Li J, Li Z, Tang L, Yang Y, Zouine M, Bouzayen M.** (2011) A conserved phosphorylation site regulates the transcriptional function of ETHYLENE-INSENSITIVE-3-LIKE-1 in tomato. **Journal of Experimental Botany** 63(1):427-439

**Dupuy JF, Loubes JM, Maza E** (2011) Non parametric estimation of the structural expectation of a stochastic increasing function. **Statistics and Computing** 21(1):121-136

**Munos S, Ranc N, Botton E, Berard A, Rolland S, Duffe P, Carretero Y, Le Paslier MC, Delalande C, Bouzayen M, Brunel D, Causse M** (2011) Increase in tomato locule number is controlled by two single-nucleotide polymorphisms located near WUSCHEL. **Plant Physiology** 156:2244-2254

**Egea I, Bian W, Barsan C, Jauneau A, Pech JC, Latche A, Li Z, Chervin C** (2011) Chloroplast to chromoplast transition in tomato fruit: spectral confocal microscopy analyses of carotenoids and chlorophylls in isolated plastids and time-lapse recording on intact live tissue. **Annals of Botany** 108:291-297

**Gunther CS, Chervin C, Marsh KB, Newcomb RD, Souleyre EJ** (2011) Characterisation of two alcohol acyltransferases from kiwifruit (*Actinidia* spp.) reveals distinct substrate preferences. **Phytochemistry** 72:700-710

**Louveau T, Leitao C, Green S, Hamiaux C, van der Rest B, Dechy-Cabaret O, Atkinson RG, Chervin C** (2011) Predicting the substrate specificity of a glycosyltransferase implicated in the production of phenolic volatiles in tomato fruit. **FEBS Journal** 278:390-400

**Bian W, Barsan C, Egea I, Purgatto E, Chervin C, Zouine M, Latché A, Bouzayen M, Pech JC** (2011) Metabolic and molecular events occurring during chromoplast biogenesis. **Journal of Botany** Volume 2011, Article ID 289859, 13 pages

## 2010

**Egea I, Barsan C, Bian W, Purgatto E, Latche A, Chervin C, Bouzayen M, Pech JC** (2010) Chromoplast differentiation: current status and perspectives. **Plant Cell Physiology** 51:1601-1611

**Barsan C, Sanchez-Bel P, Rombaldi C, Egea I, Rossignol M, Kuntz M, Zouine M, Latche A, Bouzayen M, Pech JC** (2010) Characteristics of the tomato chromoplast revealed by proteomic analysis. **Journal of Experimental Botany** 61:2413-2431

**El-Sharkawy I, Mila I, Bouzayen M, Jayasankar S** (2010) Regulation of two germin-like protein genes during plum fruit development. **Journal of Experimental Botany** 61:1761-1770

**Yang Y, Wu Y, Pirrello J, Regad F, Bouzayen M, Deng W, Li Z** (2010) Silencing SI-EBF1 and SI-EBF2 expression causes constitutive ethylene response phenotype, accelerated plant senescence, and fruit ripening in tomato. **Journal of Experimental Botany** 61:697-708

**Balbontin C, Gaete-Eastman C, Fuentes L, Figueroa CR, Herrera R, Manriquez D, Latché A, Pech, JC, Moya-Leon, AM** (2010) VpAAT1, a gene encoding an alcohol acyltransferase, is involved in ester biosynthesis during ripening of mountain papaya fruit. **Journal of Agricultural and Food Chemistry** 58:5114-5121

**Lefebvre-Pautigny F, Wu FN, Philippot M, Rigoreau M, Priyono X, Zouine M, Frasse P, Bouzayen M, Broun P, Petiard V, Tanksley S, Crouzillat, D** (2010) High resolution synteny maps allowing direct comparisons between the coffee and tomato genomes. **Tree Genetics and Genomes** 6:565-577

**Chervin C, Deluc L** (2010) Ethylene signaling receptors and transcription factors over the grape berry development: gene expression profiling. **Vitis** 49:129-136.

## 2009

**Wang H, Schauer N, Usadel B, Frasse P, Zouine M, Hernould M, Latche A, Pech JC, Fernie AR, Bouzayen M** (2009) Regulatory features underlying pollination-dependent and -independent tomato fruit set revealed by transcript and primary metabolite profiling. **Plant Cell** 21:1428-1452

**Chaabouni S, Jones B, Delalande C, Wang H, Li Z, Mila I, Frasse P, Latche A, Pech JC, Bouzayen M** (2009) SI-IAA3, a tomato Aux/IAA at the crossroads of auxin and ethylene signalling involved in differential growth. **Journal of Experimental Botany**. 60:1349-1362

**El-Sharkawy I, Sherif S, Mila I, Bouzayen M, Jayasankar S** (2009) Molecular characterization of seven genes encoding ethylene-responsive transcriptional factors during plum fruit development and ripening. **Journal of Experimental Botany** 60:907-922

**Le Roux F, Zouine M, Chakroun N, Binesse J, Saulnier D, Bouchier C, Zidane N, Ma L, Rusniok C, Lajus A, Buchrieser C, Medigue C, Polz MF, Mazel D** (2009) Genome sequence of *Vibrio splendidus*: an abundant planctonic marine species with a large genotypic diversity. **Environmental Microbiology**. 11:1959-1970

**Chaabouni S, Latché A, Pech J C and Bouzayen M.** (2009). Tomato Aux/IAA3 and HOOKLESS are important actors of the interplay between auxin and ethylene during apical hook formation. **Plant Signaling and Behavior** 4(6):1-2

**Mueller et al. (Philippot M, Frasse P, Regad F, Zouine, M, Bouzayen M)** (2009) A snapshot of the emerging tomato genome sequence. **Plant Genome** 2:78-92.

**Pirrello J, Regad F, Latche A, Pech JC, Bouzayen M** (2009) Regulation of tomato fruit ripening. **CAB Reviews** 4(51):1-14.

**Chervin C, Lavigne D, Westercamp P** (2009) Reduction of gray mold development in table grapes by preharvest sprays with ethanol and calcium chloride. **Postharvest Biology and Technology** 54:115-117

**Chervin C, Tira-umphon A, Chatelet P, Jauneau A, Boss PK, Tesniere C** (2009) Ethylene and other stimuli affect expression of the UDP glucose-flavonoid 3-O-glucosyltransferase in a non-climacteric fruit. **Vitis** 48:11-16

## 2008

**Guillon F, Philippe S, Bouchet B, Devaux MF, Frasse P, Jones B, Bouzayen M, Lahaye M** (2008) Down-regulation of an Auxin Response Factor in the tomato induces modification of fine pectin structure and tissue architecture. **Journal of Experimental Botany** 59:273-288

**Chervin C, Tira-Umphon A, Terrier N, Zouine M, Severac D, Roustan JP** (2008) Stimulation of the grape berry expansion by ethylene and effects on related gene transcripts, over the ripening phase. **Physiologia Plantarum** 134:534-546

**Pech JC, Bouzayen M, Latché A** (2008) Climacteric fruit ripening: Ethylene-dependent and independent regulation of ripening pathways in melon fruit. **Plant Science** 175:114-120

**Hommel M, Khalil-Ahmad Q, Jaimes-Miranda F, Mila I, Pouzet C, Latché A, Pech JC, Bouzayen M, Regad F** (2008) Over-expression of a chimeric gene of the transcriptional co-activator MBF1 fused to the EAR repressor motif causes developmental alteration in Arabidopsis and tomato. **Plant Science** 175:168-177

## Before 2008

**Lucchetta L, Manriquez D, El-Sharkawy I, Flores FB, Sanchez-Bel P, Zouine M, Ginies C, Bouzayen M, Rombaldi C, Pech JC, Latche A** (2007) Biochemical and catalytic properties of three recombinant alcohol acyltransferases of melon. sulfur-containing ester formation, regulatory role of CoA-SH in activity, and sequence elements conferring substrate preference. **J Agric Food Chem** 55, 5213-5220

**Nishiyama K, Guis M, Rose JK, Kubo Y, Bennett KA, Wangjin L, Kato K, Ushijima K, Nakano R, Inaba A, Bouzayen M, Latche A, Pech JC, Bennett AB** (2007) Ethylene regulation of fruit softening and cell wall disassembly in Charentais melon. **J Exp Bot** **58**, 1281-1290

**Manriquez D, El-Sharkawy I, Flores FB, El-Yahyaoui F, Regad F, Bouzayen M, Latche A, Pech JC** (2006) Two highly divergent alcohol dehydrogenases of melon exhibit fruit ripening-specific expression and distinct biochemical characteristics. **Plant Mol Biol** **61**, 675-685

**Pirrello J, Jaimes-Miranda F, Sanchez-Ballesta MT, Tournier B, Khalil-Ahmad Q, Regad F, Latche A, Pech JC, Bouzayen M** (2006) Sl-ERF2, a tomato ethylene response factor involved in ethylene response and seed germination. **Plant Cell Physiol** **47**, 1195-1205

**Auldridge ME, Block A, Vogel JT, Dabney-Smith C, Mila I, Bouzayen M, Magallanes-Lundback M, DellaPenna D, McCarty DR, Klee HJ** (2006) Characterization of three members of the Arabidopsis carotenoid cleavage dioxygenase family demonstrates the divergent roles of this multifunctional enzyme family. **Plant Journal** **45**, 982-993

**Chervin C, Tira-Umphon A, Roustan JP, Lamon J, El-Kereamy A, Kanellis A** (2005). Ethylene is required for the ripening of grape. **Acta Horticulturae** **689**, 251-256.

**Mueller LA, Tanksley SD, Giovannoni JJ, van Eck J, Stack S, Choi D, Kim BD, Chen M, Cheng Z, Li C, Ling H, Xue Y, Seymour G, Bishop G, Bryan G, Sharma R, Khurana J, Tyagi A, Chattopadhyay D, Singh NK, Stiekema W, Lindhout P, Jesse T, Lankhorst RK, Bouzayen M, Shibata D, Tabata S, Granell A, Botella MA, Giuliano G, Frusciante L, Causse M, Zamir D** (2005) The Tomato Sequencing Project, the first cornerstone of the International Solanaceae Project (SOL). **Comp Funct Genomics** **6**, 153-158

**El-Sharkawy I, Manriquez D, Flores FB, Regad F, Bouzayen M, Latche A, Pech JC** (2005) Functional characterization of a melon alcohol acyl-transferase gene family involved in the biosynthesis of ester volatiles. Identification of the crucial role of a threonine residue for enzyme activity. **Plant Mol Biol** **59**, 345-362

**Wang H, Jones B, Li Z, Frasse P, Delalande C, Regad F, Chaabouni S, Latche A, Pech JC, Bouzayen M** (2005) The tomato Aux/IAA transcription factor IAA9 is involved in fruit development and leaf morphogenesis. **Plant Cell** **17**, 2676-2692

**Leclercq J, Ranty B, Sanchez-Ballesta MT, Li Z, Jones B, Jauneau A, Pech JC, Latche A, Ranjeva R, Bouzayen M** (2005) Molecular and biochemical characterization of LeCRK1, a ripening-associated tomato CDPK-related kinase. **J Exp Bot** **56**, 25-35

**Alba R, Fei Z, Payton P, Liu Y, Moore SL, Debbie P, Cohn J, D'Ascenzo M, Gordon JS, Rose JK, Martin G, Tanksley SD, Bouzayen M, Jahn MM, Giovannoni J** (2004) ESTs, cDNA microarrays, and gene expression profiling: tools for dissecting plant physiology and development. **Plant Journal** **39**, 697-714

**Adams-Phillips L, Barry C, Kannan P, Leclercq J, Bouzayen M, Giovannoni J** (2004) Evidence that CTR1-mediated ethylene signal transduction in tomato is encoded by a multigene family whose members display distinct regulatory features. **Plant Mol Biol** **54**, 387-404

**Chervin C, El-Kereamy A, Roustan JP, Latché A, Lamon J, Bouzayen M (2004).** Ethylene seems required for the berry development and ripening in grape, a non-climacteric fruit. **Plant Science 167**, 1301-1305

**Chervin C, El-Kereamy A, Renouf V, Rohmer C, Roques A, Garin P, Guichaoua L, Sanvoisin M, Roustan JP, Savocchia S, Van Heeswijck R (2004).** Changes in grape maturity induced by spraying ethanol. **Acta Horticulturae 640**, 305-311

**Tesniere C, Pradal M, El-Kereamy A, Torregrosa L, Chatelet P, Roustan JP, Chervin C (2004)** Involvement of ethylene signalling in a non-climacteric fruit: new elements regarding the regulation of ADH expression in grapevine. **J Exp Bot 55**, 2235-2240

**Benichou M, Li Z, Tournier B, Chaves A, Zegzouti H, Jauneau A, Delalande C, Latche A, Bouzayen M, Spremulli LL, Pech JC (2003)** Tomato EF-Ts(mt), a functional mitochondrial translation elongation factor from higher plants. **Plant Mol Biol 53**, 411-422

**Tournier B, Sanchez-Ballesta MT, Jones B, Pesquet E, Regad F, Latche A, Pech JC, Bouzayen M (2003)** New members of the tomato ERF family show specific expression pattern and diverse DNA-binding capacity to the GCC box element. **FEBS Lett 550**, 149-154

**Legrand V, Dalmayrac S, Latché A, Pech J., Bouzayen M, Fallot J, Torregrosa L, Bouquet A, Roustan JP (2003).** Constitutive expression of *VR-ERE* gene in transformed grapevines confers enhanced resistance to eutypine, a toxin from *Eutypa lata*. **Plant Science 164**, 809-814.

**Afifi M, El-Kereamy A, Legrand V, Raynal J, Chervin C, Monje MC, Nepveu F, Roustan JP (2003).** Effect of eutypine, a toxin from *Eutypa lata*, on the expression of anthocyanin pathway in grapevine. **Journal of Plant Physiology 160**, 971 - 975.

**El-Kereamy A, Chervin C, Roustan JP, Chenier V, Souquet JM, Moutounet M, Raynal J, Ford C, Latché A, Pech JC, Bouzayen M (2003).** Exogenous ethylene stimulates the long term expression of genes related to anthocyanin biosynthesis in grape berries. **Physiologia Plantarum 119**, 175 – 182.

**El-Kereamy A, Chervin C, Souquet JM, Moutounet M, Monje MC, Nepveu F, Mondies H, Ford CM, Van Heeswijck R, Roustan JP (2002).** Ethanol triggers grape gene expression leading to anthocyanin accumulation during berry ripening. **Plant Science 163**, 449-454.

**Jones B, Frasse P, Olmos E, Zegzouti H, Li ZG, Latche A, Pech JC, Bouzayen M (2002)** Down-regulation of DR12, an auxin-response-factor homolog, in the tomato results in a pleiotropic phenotype including dark green and blotchy ripening fruit. **Plant Journal 32**, 603-613

**Leclercq J, Adams-Phillips LC, Zegzouti H, Jones B, Latche A, Giovannoni JJ, Pech JC, Bouzayen M (2002)** LeCTR1, a tomato CTR1-like gene, demonstrates ethylene signaling ability in Arabidopsis and novel expression patterns in tomato. **Plant Physiol 130**, 1132-1142

**Flores F, El Yahyaoui F, de Billerbeck G, Romojaro F, Latche A, Bouzayen M, Pech JC, Ambid C (2002)** Role of ethylene in the biosynthetic pathway of aliphatic ester aroma volatiles in Charentais Cantaloupe melons. **J Exp Bot 53**: 201-206

- Exley R, Zouine M, Pernelle JJ, Beloin C, Le Hegarat F, Deneubourg AM** (2001) A possible role for L24 of *Bacillus subtilis* in nucleoid organization and segregation. **Biochimie** **83**, 269-275
- Chervin C, El-Kereamy A, Roustan JP, Faragher JD, Latché A, Pech JC, Bouzayen M** (2001). An ethanol spray at veraison enhances colour in red wines. **Australian Journal of Grape and Wine Research** **7**, 144-145.
- Hadfield KA, Dang T, Guis M, Pech JC, Bouzayen M, Bennett AB** (2000) Characterization of ripening-regulated cDNAs and their expression in ethylene-suppressed charentais melon fruit. **Plant Physiol** **122**, 977-983
- Zegzouti H, Jones B, Frasse P, Marty C, Maitre B, Latch A, Pech JC, Bouzayen M** (1999) Ethylene-regulated gene expression in tomato fruit: characterization of novel ethylene-responsive and ripening-related genes isolated by differential display. **Plant J** **18**, 589-600
- Colrat S, Deswarte C, Latché A, Klæbe A, Bouzayen M, Fallot J, Roustan JP** (1999). Enzymatic detoxification of eutypine, a toxin from *Eutypa lata* by *Vitis vinifera* cells: Partial purification of an NADPH-dependent aldehyde reductase. **Planta** **207**, 544-550.
- Colrat S, Latche A, Guis M, Pech JC, Bouzayen M, Fallot J, Roustan JP** (1999) Purification and characterization of a NADPH-dependent aldehyde reductase from mung bean that detoxifies eutypine, a toxin from *Eutypa lata*1. **Plant Physiol** **119**, 621-626
- Guillen P, Guis M, Martinez-Reina G, Colrat S, Dalmayrac S, Deswarte C, Bouzayen M, Roustan JP, Fallot J, Pech JC, Latche A** (1998) A novel NADPH-dependent aldehyde reductase gene from *Vigna radiata* confers resistance to the grapevine fungal toxin eutypine. **Plant Journal** **16**, 335-343
- Bidonde S, Ferrer MA, Zegzouti H, Ramassamy S, Latche A, Pech JC, Hamilton AJ, Grierson D, Bouzayen M** (1998) Expression and characterization of three tomato 1-aminocyclopropane-1-carboxylate oxidase cDNAs in yeast. **Eur J Biochem** **253**, 20-26
- Zegzouti H, Jones B, Marty C, Lelievre JM, Latche A, Pech JC, Bouzayen M** (1997) ER5, a tomato cDNA encoding an ethylene-responsive LEA-like protein: characterization and expression in response to drought, ABA and wounding. **Plant Mol Biol** **35**, 847-854
- Blume B, Barry CS, Hamilton AJ, Bouzayen M, Grierson D** (1997) Identification of transposon-like elements in non-coding regions of tomato ACC oxidase genes. **Mol Gen Genet** **254**, 297-303
- Guis M, Latché A, Pech JC, Roustan JP** (1997). An efficient method for the production of diploid Cantaloupe Charantais Melon (*Cucumis melo* L. var. *cantalupensis*) by somatic embryogenesis. **Scientia Horticulturae** **69**: 199-206.
- Deswarte C, Canut H, Klæbe A, Roustan JP, Fallot J** (1996). Transport of eutypine into *Vitis vinifera* cells and its cytoplasmic accumulation are related to the ionization stages of the toxin. **J. Plant Physiol.** **149**, 336-342.

**Deswarte C, Eychenne J, Davy De Virville J, Roustan JP, Moreau F, Fallot J** (1996). Protonophoric activity of eutypine, a toxin from *Eutypa lata*, in plant mitochondria. **Archives of Biochem. and Biophysics** **334**, 200-205.

**Ayub R, Guis M, Ben Amor M, Gillot L, Roustan JP, Latche A, Bouzayen M, Pech JC** (1996) Expression of ACC oxidase antisense gene inhibits ripening of cantaloupe melon fruits. **Nat Biotechnol** **14**, 862-866

**Barry CS, Blume B, Bouzayen M, Cooper W, Hamilton AJ, Grierson D** (1996) Differential expression of the 1-aminocyclopropane-1-carboxylate oxidase gene family of tomato. **Plant Journal** **9**, 525-535

**Rombaldi C, Lelievre JM, Latche A, Petitprez M, Bouzayen M, Pech JC** (1994) Immunocytolocalization of 1-aminocyclopropane-1-carboxylic acid oxidase in tomato and apple fruit. **Planta** **192**, 453-460

**Roustan JP, Latché A, Fallot J** (1994). Role of ethylene on induction and expression of carrot somatic embryogenesis: relationship with polyamine metabolism. **Plant Sci.** **103**, 223-229.

**Chraibi K, Castelle JC, Latché A, Roustan JP, Fallot J** (1992). A genotype-independent system of regeneration from cotyledons of sunflower (*Helianthus annuus* L.). The role of ethylene. **Plant Sci.** **86**, 215-221.

**Roustan JP, Latché A, Fallot J** (1992). Influence of ethylene on the incorporation of 3,4[14C]methionine into polyamines in *Daucus carota* cells during somatic embryogenesis. **Plant Physiol. Biochem.** **30**, 201-205.

**Roustan JP, Latché A, Fallot J** 1992. Enhancement of shoot regeneration from cotyledons of *Cucumis melo* by AgNO<sub>3</sub>, an inhibitor of ethylene action. **J. Plant Physiol.** **140**, 485-488.

**Chraibi K, Castelle JC, Latché A, Roustan JP, Fallot J** (1992). Enhancement of shoot regeneration potential by liquid medium culture from mature cotyledons of sunflower (*Helianthus annuus* L.). **Plant Cell Rep.** **10**, 617-620.

**Bouzayen M, Hamilton A, Picton S, Barton S, Grierson D** (1992) Identification of genes for the ethylene-forming enzyme and inhibition of ethylene synthesis in transgenic plants using antisense genes. **Biochem Soc Trans** **20**, 76-79

**Pedreno MA, Bouzayen M, Pech JC, Marigo G, Latche A** (1991) Vacuolar Release of 1-(Malonylamino)cyclopropane-1-Carboxylic Acid, the Conjugated Form of the Ethylene Precursor. **Plant Physiol** **97**, 1483-1486

**Hamilton AJ, Bouzayen M, Grierson D** (1991) Identification of a tomato gene for the ethylene-forming enzyme by expression in yeast. **Proc Natl Acad Sci U S A** **88**, 7434-7437

**Chraibi K, Latché A, Roustan JP, Fallot J** (1991). Stimulation of shoot regeneration from cotyledons of *Helianthus annuus* by the ethylene inhibitors silver and cobalt. **Plant Cell Rep.** **10**, 204-207.



**Roustan JP, Latché A, Fallot J** (1990). Control of carrot somatic embryogenesis by AgNO<sub>3</sub>, an inhibitor of ethylene action: Effect on arginine decarboxylase activity. **Plant Sci.** **67**, 89-97.

**Roustan JP, Latché A, Fallot J** (1989). Stimulation of *Daucus carota* somatic embryogenesis by inhibitors of ethylene synthesis: Cobalt and Nickel. **Plant Cell Rep.** **8**, 182-185.

**Bouzayen M, Latche A, Pech JC, Marigo G** (1989) Carrier-Mediated Uptake of 1-(Malonylamino)cyclopropane-1-Carboxylic Acid in Vacuoles Isolated from *Catharanthus roseus* Cells. **Plant Physiol** **91**, 1317-1322

**Bouzayen M, Latche A, Alibert G, Pech JC** (1988) Intracellular Sites of Synthesis and Storage of 1-(Malonylamino)cyclopropane-1-Carboxylic Acid in *Acer pseudoplatanus* Cells. **Plant Physiol** **88**, 613-617