

# François Roudier

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

5,604  
citations

159585

30  
h-index

302126

39  
g-index

42  
all docs

42  
docs citations

42  
times ranked

7332  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Integrative epigenomic mapping defines four main chromatin states in Arabidopsis. EMBO Journal, 2011, 30, 1928-1938.   | 7.8  | 600       |
| 2  | Arabidopsis TFL2/LHP1 Specifically Associates with Genes Marked by Trimethylation of Histone H3 Lysine 27. PLoS Genetics, 2007, 3, e86.  | 3.5  | 537       |
| 3  | Mapping the Epigenetic Basis of Complex Traits. Science, 2014, 343, 1145-1148.   | 12.6 | 403       |
| 4  | Nuclear retention of the transcription factor NLP7 orchestrates the early response to nitrate in plants. Nature Communications, 2013, 4, 1713.   | 12.8 | 389       |
| 5  | A Role for RNAi in the Selective Correction of DNA Methylation Defects. Science, 2009, 323, 1600-1604.   | 12.6 | 338       |
| 6  | COBRA, an Arabidopsis Extracellular Glycosyl-Phosphatidyl Inositol-Anchored Protein, Specifically Controls Highly Anisotropic Expansion through Its Involvement in Cellulose Microfibril Orientation. Plant Cell, 2005, 17, 1749-1763. | 6.6  | 321       |
| 7  | Polycomb Repressive Complex 2 Controls the Embryo-to-Seedling Phase Transition. PLoS Genetics, 2011, 7, e1002014.  | 3.5  | 318       |
| 8  | Plant cell-size control: growing by ploidy?. Current Opinion in Plant Biology, 2000, 3, 488-492.   | 7.1  | 286       |
| 9  | Endoreduplication Mediated by the Anaphase-Promoting Complex Activator CCS52A Is Required for Symbiotic Cell Differentiation in Medicago truncatula Nodules. Plant Cell, 2003, 15, 2093-2105.  | 6.6  | 186       |
| 10 | Very-Long-Chain Fatty Acids Are Involved in Polar Auxin Transport and Developmental Patterning in Arabidopsis. Plant Cell, 2010, 22, 364-375.  | 6.6  | 174       |
| 11 | PRC2 represses dedifferentiation of mature somatic cells in Arabidopsis. Nature Plants, 2015, 1, 15089.  | 9.3  | 160       |
| 12 | Genome expansion of Arabis alpina linked with retrotransposition and reduced symmetric DNA methylation. Nature Plants, 2015, 1, 14023.   | 9.3  | 156       |
| 13 | The plant RWP-RK transcription factors: key regulators of nitrogen responses and of gametophyte development. Journal of Experimental Botany, 2014, 65, 5577-5587.  | 4.8  | 154       |
| 14 | The COBRA Family of Putative GPI-Anchored Proteins in Arabidopsis. A New Fellowship in Expansion. Plant Physiology, 2002, 130, 538-548.  | 4.8  | 143       |
| 15 | NERD, a Plant-Specific GW Protein, Defines an Additional RNAi-Dependent Chromatin-Based Pathway in Arabidopsis. Molecular Cell, 2012, 48, 121-132.   | 9.7  | 134       |
| 16 | Transcriptional Regulation of Arabidopsis LEAFY COTYLEDON2 Involves RLE, a cis-Element That Regulates Trimethylation of Histone H3 at Lysine-27. Plant Cell, 2011, 23, 4065-4078.  | 6.6  | 120       |
| 17 | A versatile Multisite Gateway-compatible promoter and transgenic line collection for cell type-specific functional genomics in Arabidopsis. Plant Journal, 2016, 85, 320-333.  | 5.7  | 116       |
| 18 | Histone H2B Monoubiquitination Facilitates the Rapid Modulation of Gene Expression during Arabidopsis Photomorphogenesis. PLoS Genetics, 2012, 8, e1002825.  | 3.5  | 115       |

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|----|--|------|-----------|
| 19 | Chromatin indexing in Arabidopsis: an epigenomic tale of tails and more. <i>Trends in Genetics</i> , 2009, 25, 511-517.  | 6.7  | 98        |
| 20 | The Medicago Species A2-Type Cyclin Is Auxin Regulated and Involved in Meristem Formation But Dispensable for Endoreduplication-Associated Developmental Programs. <i>Plant Physiology</i> , 2003, 131, 1091-1103. | 4.8  | 95        |
| 21 | Cell cycle function of a Medicago sativa A2-type cyclin interacting with a PSTAIRE-type cyclin-dependent kinase and a retinoblastoma protein. <i>Plant Journal</i> , 2000, 23, 73-83.                              | 5.7  | 86        |
| 22 | Transcriptional Regulation of Arabidopsis Polycomb Repressive Complex 2 Coordinates Cell-Type Proliferation and Differentiation. <i>Plant Cell</i> , 2016, 28, 2616-2631.  | 6.6  | 78        |
| 23 | The C Terminus of the Immunophilin PASTICCINO1 Is Required for Plant Development and for Interaction with a NAC-like Transcription Factor. <i>Journal of Biological Chemistry</i> , 2006, 281, 25475-25484.        | 3.4  | 66        |
| 24 | Histone acetylation orchestrates wound-induced transcriptional activation and cellular reprogramming in Arabidopsis. <i>Communications Biology</i> , 2019, 2, 404.   | 4.4  | 65        |
| 25 | Epigenetic memory and cell fate reprogramming in plants. <i>Regeneration (Oxford, England)</i> , 2017, 4, 15-20.   | 6.3  | 59        |
| 26 | A network of transcriptional repressors modulates auxin responses. <i>Nature</i> , 2021, 589, 116-119.   | 27.8 | 56        |
| 27 | The m <sup>6</sup> A pathway protects the transcriptome integrity by restricting RNA chimera formation in plants. <i>Life Science Alliance</i> , 2019, 2, e201900393.  | 2.8  | 53        |
| 28 | Additive inheritance of histone modifications in <i>Arabidopsis thaliana</i> intra-specific hybrids. <i>Plant Journal</i> , 2011, 67, 691-700.   | 5.7  | 48        |
| 29 | Direct conversion of root primordium into shoot meristem relies on timing of stem cell niche development. <i>Development (Cambridge)</i> , 2017, 144, 1187-1200.   | 2.5  | 48        |
| 30 | Genome-wide identification of RETINOBLASTOMA RELATED 1 binding sites in Arabidopsis reveals novel DNA damage regulators. <i>PLoS Genetics</i> , 2018, 14, e1007797.  | 3.5  | 42        |
| 31 | Mitotic Inheritance of PRC2-Mediated Silencing: Mechanistic Insights and Developmental Perspectives. <i>Frontiers in Plant Science</i> , 2020, 11, 262.  | 3.6  | 33        |
| 32 | Polycomb Repressive Complex 2 attenuates the very high expression of the Arabidopsis gene NRT2.1. <i>Scientific Reports</i> , 2018, 8, 7905.   | 3.3  | 32        |
| 33 | MeDIP-HMM: genome-wide identification of distinct DNA methylation states from high-density tiling arrays. <i>Bioinformatics</i> , 2012, 28, 2930-2939.   | 4.1  | 26        |
| 34 | Epigenetics and Development in Plants. <i>Current Topics in Developmental Biology</i> , 2013, 104, 189-222.  | 2.2  | 24        |
| 35 | Emerging concepts in chromatin-level regulation of plant cell differentiation: timing, counting, sensing and maintaining. <i>Current Opinion in Plant Biology</i> , 2016, 34, 27-34.                               | 7.1  | 16        |
| 36 | Deciphering Plant Chromatin Regulation via CRISPR/dCas9-Based Epigenome Engineering. <i>Epigenomes</i> , 2021, 5, 17.  | 1.8  | 9         |

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|----|---|-----|-----------|
| 37 | Comparative epigenomics in the Brassicaceae reveals two evolutionarily conserved modes of PRC2-mediated gene regulation. <i>Genome Biology</i> , 2017, 18, 207. | 8.8 | 8         |
| 38 | Cell Type-Specific Profiling of Chromatin Modifications and Associated Proteins. <i>Methods in Molecular Biology</i> , 2018, 1675, 111-130.                     | 0.9 | 7         |
| 39 | Editorial overview: Multifaceted dynamics and countless shades of green chromatin. <i>Current Opinion in Plant Biology</i> , 2021, 61, 102079.                  | 7.1 | 0         |