



# Paul Christou

## Professor Investigador (ICREA)

### Datos personales

**Categoría:** Professor Investigador (ICREA)

**Área de conocimiento:** Biotecnologia

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### Formación Académica

- Llicenciat en Ciències, Universitat de Londres, Chelsea College, UK, 1977
- Doctorat, Universitat de Londres, University College, UK, 1980

### Experiencia Profesional

- 2004-actualitat, Investigador ICREA, Universitat de Lleida
- 2001-2004, Profesor, Fraunhofer Institute of Molecular Biotechnology and Applied Ecology, Schmallenberg, Aachen, Alemania
- 1998 – 1994, Profesor i Responsable de l'Unitat de Biotecnología, John Innes Centre, UK

### Investigación

- Biotecnologia aplicada a la obtención de cereales resistentes al estrés abiótico como sequía y salinidad.

### Docencia

- TECNOLOGIES GENÈTIQUES, GENÒMIQUES I DEMàster Universitari en Millora Genètica Vegetal (2012-2013)



## Publicaciones Recientes

Capell T, Twyman RM, Armario-Najera V, Ma JKC, Schillberg S, **Christou P** (2020) Potential applications of plant biotechnology against SARSCoV-2. *Trends in Plant Science*, <https://doi.org/10.1016/j.tplants.2020.04.009>.

Moreno JA, Díaz-Gómez J, Fuentes-Font L, Angulo E, Gosálvez LF, Sandmann G, Portero-Otin M, Capell T, Zhu C, **Christou P**, Nogareda C (2020) Poultry diets containing (keto)carotenoid-enriched maize improve egg yolk color and maintain quality *Animal Feed Science and Technology* 206:114334-114344

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Mir-Artigues P, Twyman RM, Alvarez D, Cerda-Bennasser P, Balcells M, **Christou P**, Capell T (2019) A simplified techno-economic analysis of molecular pharming *Biotechnology and Bioengineering* 116:2526-2539 doi: 10.1002/bit.27093.

Díaz Benito P, Banakar R, Rodríguez-Menéndez S, Capell T, Pereiro R, **Christou P**, Abadía J, Fernández B, Álvarez-Fernández A (2018) Iron and zinc in the embryo and endosperm of rice (*Oryza sativa* L.) seeds in contrasting 2'-deoxymugineic acid/nicotianamine scenarios *Frontiers in Plant Science* doi: 10.3389/fpls.2018.01190

Zanga D, Sanahuja G, Eizaguirre M, Albajes R, **Christou P**, Capell T, Fraser P, Gerrisch C, López C (2018) Carotenoids moderate the effectiveness of a Bt gene against the European corn borer, *Ostrinia nubilalis* *PlosOne* 13(7):e0199317. doi: 10.1371/journal.pone.0199317. eCollection 2018.

Vamvaka E, Farré G, Molinos-Albert LM, Evans A, Canela-Xandri A, Twyman RM, Carrillo J, ordoñez RA, Shattock R, O'Keefe BR, Clotet B, Blanco J, Khush GS, **Christou P**, Capell T (2018) Unexpected synergistic HIV neutralization by a trile microbicide produced in rice endosperm. *Proc Natl Acad Sci of USA* 115: E7854-E7862

Pérez L, E Soto, G. Villorbina, L Bassie, V Medina, P Muñoz, T Capell, C Zhu, **P Christou**, G Farré (2018) CRISPR/Cas9-induced monoallelic mutations in the cytosolic AGPase large subunit gene *APL2* induce the ectopic expression of *APL2* and the corresponding small subunit gene *APS2b* in rice leaves *Transgenic Research* 27: 423-439

Berman U, Zorrilla-Lopez U, Sandmann G, Capell T, **Christou P**, Zhu C (2017) The silencing of carotenoid B-hydroxylases by RNA interference in different maize genetic backgrounds increases the b-carotene content of the endosperm. *International Journal of Molecular Sciences* 18:2515

Díaz-Gómez J, J.A. Moreno, E. Angulo, G. Sandmann, C. Zhu, AJ Ramos, T. Capell, **P. Christou**, Nogareda C (2017) High-carotenoid biofortified maize is an alternative to color additives in poultry feed *Journal: Animal Feed Science and Technology* 231:38-46

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Diaz-Gomez J, Twyman RM, Zhu C, Farre G, Serrano JCE, Capell T, **Christou P** (2017) Biofortification of crops with nutrients: factors affecting utilization and storage. *Current Opinion in Biotechnology* 44: 115-123

Zanga D, Capell T, Slafer GA, **Christou P**, Savin R (2016) A carotenogenic mini-pathway introduced into white corn does not affect development or agronomic performance *Scientific Reports* 6: 38288

Moreno JA, Diaz-Gomez J, Nogareda C, Angulo E, Sandmann G, Portero-Otin M, Serrano JCE, Twyman RM, Capell T, Zhu C, **Christou P** (2016) The distribution of carotenoides in hems fed on biofortified maize is influenced by feed composition, absorption, resource allocation and storage *Scientific Reports* 6:35346

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Banakar; Alvarez Fernández, Á; Abadia, J; Capell, T; **Christou, P** (2016) The expression of heterologous Fe (III) phytosiderophore transporter HvYS1 in rice increases Fe uptake, translocation and seed loading and excludes heavy metals by selective Fe transport. *Plant Biotechnol J* 15: 423-432

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*Per més informació (Consultes GREC [ <http://webgrec.udl.cat/cgi-bin/DADREC/crgen.cgi?FONT=3&IDI=CAT&PID=367567&IDNC=201210161350170> ])*