



# Ludovic Bassié

## Titular d'Universitat

### Datos personales



**Categoría:** Titular d'Universitat

**Área de conocimiento:** Biotecnologia

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### Formación Académica

- Llicenciat en Biologia, Universitat de Nice Sophia-Antipolis, França, 1997
- Doctorat en Biotecnologia Vegetal, Universitat de Barcelona, 2004

### Experiencia Profesional

- 1998 - 2001. Investigador col·laborador, John Innes Centre (Regne Unit)
- 2002 - 2004. Investigador col·laborador, Fraunhofer Institute (Alemanya)
- 2004 - 2007. Investigador postdoctoral, Juan de la Cierva, UdL
- 2007 - 2011. Professor Lector, UdL
- 2011 - actualitat, Titular Universitat, UdL

### Investigación

- Enginyeria de rutes metabòliques a cereals

### Docencia

- BIOTECNOLOGIA VEGETAL Grau en Biotecnologia
- TÈCNiques DE LABORATORI DE BIOTECNOLOGIA DE PLANTES Grau en Biotecnologia



## Publicaciones Recientes

Castaño C, Bassie L, Oliach D, Gómez M, Medina V, Liu B, Colinas C. 2015. Cryphonectria hypovirus 1 (CHV-1) survey reveals low occurrence and diversity of subtypes in NE Spain. *Forest Pathology* 45:51-59

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Pérez-Massot E, Banakar R, Gómez-Galera S, Zorrilla-López U, Sanahuja G, Arjó G, Miralpeix B, Vamvaka E, Farre G, Rivera SM, Dashevskaya S, Berman J, Sabalza M, Yuan D, Bai C, Bassie L, Twyman RM, Capell T, Christou P, Zhu C. 2013. The contribution of transgenic plants to better health through improved nutrition: opportunities and constraints. *Genes And Nutrition* 8: 29-41

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Peremarti A., Bassie L., Yuan D., Pelacho A., Christou P., Capell T. 2010. Transcriptional regulation of the rice arginine decarboxylase (Adc1) and S-adenosylmethionine decarboxylase (Samdc) genes by methyl jasmonate. *Plant Physiology* 48:553-559

Peremarti A., Bassie L., Zhu C., Christou P., Capell T. 2010. Molecular characterization of the Arginine decarboxylase gene in rice. *Transgenic Research* 19:785-797



Naqvi S., Zhu C., Farre G., Ramessar K., Bassie L., Breitenbach J., Perez Conesa D., Ros G., Sandmann G., Capell T., Christou P. 2009. Transgenic multivitamin corn through biofortification of endosperm with three vitamins representing three distinct metabolic pathways. *Proceedings of the National Academy of Sciences of the United States of America* 106;7762-7767

Bassie L., Zhu C., Romagosa I., Christou P., Capell T. 2008. Transgenic wheat plants expressing an oat arginine decarboxylase cDNA exhibit increases in polyamine content in vegetative tissue and seeds. *Molecular Breeding* 22 : 39 - 50

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Capell T., Bassie L. 2005. Progress in the modulation of the polyamine biosynthetic pathway in transgenic rice. *Journal of Biological Sciences* 5: 379-390.

Capell T., Bassie L., Christou P. 2004. Modulation of the polyamine biosynthetic pathway in transgenic rice confers tolerance to drought stress. *PNAS of USA* 101: 9909-9914.

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Trung-Nghia P., Bassie L., Safwat G., Lepri O., Thu-Hang P., Rocha P., Christou P., Capell T. 2003. Reduction in the endogenous arginine decarboxylase transcript levels in rice leads to depletion of the putrescine and spermidine pools with no concomitant changes in the expression of downstream genes in the polyamine biosynthetic pathway. *Planta* 218: 125-134.

Thu-Hang P., Sawfat G., Bassie L., Trung-Nghia P., Christou P., Capell T. 2002. Expression of a heterologous S-adenosylmethionine decarboxylase cDNA in plants demonstrates that changes in SAMDC activity determine levels of the higher polyamines spermidine and spermine. *Plant Physiology* 129: 1744-1754.

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Sivamani E., Bassie L., Christou P., Capell T. 2001. Development of a novel gene transfer system for *Cajanus cajan* and expression of a monocot arginine decarboxylase cDNA in transformed cell lines. *Plant Physiology and Biochemistry* 39: 575 - 582.



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Bassie L., Noury M., Wisnieski J.P., Topsom L., Christou P., Capell T. 2000. Transgenic cell lines as a useful tool to study the biochemistry of down-regulation of an endogenous rice gene using a heterologous diamine oxidase cDNA. *Plant Physiology and Biochemistry* 38: 729-737.

Capell T., Lepri O., Bassie L., Trung-Nghia P., Thu-Hang P., Safwat G., Christou P. 2000. Elucidation of the relative contribution of the two alternative pathways for polyamine biogenesis in plants suggests a key role for the putrescine pool in controlling flux to the higher polyamines. *Rice Genetics Newsletter* 17: 156-157.

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