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Citations et h index **Scholar** :
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https://www.researchgate.net/profile/Patrick_Laurenti?ev=hdr_xprf
Profil **ZFIN**: <https://zfin.org/ZDB-PERS-970219-8>

PUBLICATIONS

- Casane D. and Laurenti P.* (2016) Le cas CRISPR, mutations « ready-made » et évolution lamarckienne d'un système immunitaire adaptatif [The CRISPR case, « ready-made » mutations and Lamarckian evolution of an adaptive immunity system] *Med Sci (Paris)* 32 : 640–645
- Shone V., Oulion S., Casane D., Laurenti P., Graham A. (2016) Mode of reduction in the number of pharyngeal segments within the sarcopterygians. *Zoological Letters* 2(6)
- Casane D., Fumey J. and Laurenti P.* (2015). L'apophénie d'ENCODE ou Pangloss examine le génome humain [ENCODE apophenia or a panglossian analysis of the human genome]. *Med Sci (Paris)* 31 : 680-6
- Naville M, Chalopin D., Casane D., Laurenti P and Jean-Nicolas Volff. (2015). The coelacanth: can a "living fossil" have active transposable elements in its genome? *Mobile Genetic Elements* 5(4):55-59
- Casane D., Laurenti P.* (2014) Syllogomanie moléculaire : l'ADN non codant enrichit le jeu des possibles [Compulsive molecular hoarding enables the evolution of protein-coding DNA from non-coding DNA] *Med Sci (Paris)* 30(12): 1177-83
- Casane D., Laurenti P.* (2014) Une toute nouvelle tête pour l'ancêtre des vertébrés à mâchoires. [A brand new face for the ancestor of jawed vertebrates] *Med Sci (Paris)* 30(1): 38-40
- Casane D., Laurenti P.* (2013) Why coelacanths are not "living-fossils". *BioEssays* 35(4): 332-338
- Debiais-Thibaud M., Metcalfe C.J., Pollack J., Germon I., Ekker M., Depew M., Laurenti P., Borday-Birraux V., Casane D. (2013) Heterogeneous conservation of Dlx paralog co-expression in jawed vertebrates. *PLoS ONE* 8(6): e6
- Casane D., Laurenti P.* (2011) Penser la biologie dans un cadre phylogénétique : l'exemple de l'évolution des vertébrés. [Tree thinking : Vertebrates as case study] *Med Sci (Paris)* 28(12): 1121-1127
- Debiais-Thibaud M., Oulion S., Bourrat F., Laurenti P., Casane D., Borday-Birraux V. (2011) The homology of odontodes in gnathostomes: insights from Dlx gene expression in the dogfish, *Scyliorhinus canicula*. *BMC Evolutionary Biology* 11(1): 307
- Oulion S., Borday-Birraux V., Debiais-Thibaud M., Mazan S., Laurenti P.* and Casane D. (2011) Evolution of repeated structures along the body axis of jawed vertebrates, insights from the *Scyliorhinus canicula* Hox code. *Evolution and Development* 13(3): 247-259

- Debiais-Thibaud M., Germon I., Laurenti P., Casane D. and Borday-Birraux V. (2008) Low divergence in Dlx gene expression between dentitions of the medaka (*Oryzias latipes*) versus high level of expression shuffling in osteichthyans. *Evolution and Development* 10(4): 464-476
- Debiais-Thibaud M., Borday-Birraux V., Germon I., Bourrat F., Metcalfe C.J., Casane D. and Laurenti P.* (2007) Development of oral and pharyngeal teeth in the medaka (*Oryzias latipes*): comparison of morphology and expression of eve1 gene. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution* 308(6): 693-708
- Laurenti, P., Thaëron, C., Allizard, F., Huysseune, A., and Sire, J.Y. (2004) Cellular expression of eve1 suggests its requirement for the differentiation of the ameloblasts and for the initiation and morphogenesis of the first tooth in the zebrafish (*Danio rerio*). *Dev. Dyn.* 230(4):727-733
- Avaron F., Thaëron-Antono C., Beck C.W., Borday-Birraux V., Géraudie J., Casane D. and Laurenti P.* (2003) Comparison of even-skipped related gene expression pattern in vertebrates shows an association between expression domain loss and modification of selective constraints on sequences. *Evolution and Development* 5(2): 145-156
- Borday V., Thaeron C., Avaron F., Brulfert A., Casane D., Laurenti P. and Geraudie J. (2001) evx1 transcription in bony fin rays segment boundaries leads to a reiterated pattern during zebrafish fin development and regeneration. *Developmental Dynamics* 220(2): 91-98
- Fauvarque MO, Laurenti P, Boivin A, Bloyer S, Griffin-Shea R, Bourbon HM, and Dura JM. (2001). Dominant modifiers of the polyhomeotic extra-sex-combs phenotype induced by marked P element insertional mutagenesis in *Drosophila*. *Genet Res.* 78(2):137-48.
- Thaeron C., Avaron F., Casane D., Borday V., Thisse B., Thisse C., Boulekbache H. and Laurenti P.* (2000) Zebrafish evx1 is dynamically expressed during embryogenesis in subsets of interneurons, posterior gut and urogenital system. *Mechanisms of Development* 99: 167-172
- Perrin L, Romby P, Laurenti P, Berenger H, Kallenbach S, Bourbon HM, and Pradel J (1999). The *Drosophila* Modifier of Variegation modulo Gene Product Binds Specific RNA Sequences at the Nucleolus and Interacts with DNA and Chromatin in a Phosphorylation-dependent Manner. *J Biol Chem*, 274(10):6315-6323
- Jacq B., Horn F., Janody F., Gompel N., Serralbo O., Mohr E., Leroy C., Bellon B., Fasano L., Laurenti P., and Röder L. (1997). GIF-DB, a WWW database on gene interactions involved in *Drosophila melanogaster* development. *Nucl. Acids Res.*, 25:67-71.
- Laurenti P., Graba, Y., Rosset R., and Pradel J (1995). Genetic and molecular analysis of terminal deletions of chromosome 3R in *Drosophila*. *Gene*, 154, 177-181.
- Graba Y., Gieseler K., Aragnol D., Laurenti P., Mariol MC., Bérenger H., Sagnier T., and Pradel J (1995). DWnt-4, a novel *drosophila* Wnt gene acts downstream of homeotic complex genes in the visceral mesoderm. *Development*, 121:209-218.
- Graba Y., Laurenti P., Perrin L., Aragnol D., and Pradel J. (1994). The modifier of variegation modulo gene acts downstream of dorsoventral and HOM-C genes and is required for morphogenesis in *Drosophila*. *Developmental Biology*, 166:704-715.
- Laurenti P., Graba Y., and Pradel J. (1993). A quick method for immunoscreening recombinant bacterial colonies. *Trends Genet.*, 9:335-336.
- Garzino V., Pereira A., Laurenti P., Graba Y., Levis R. W., and Pradel J. (1992). Cell lineage specific expression of modulo a dose dependent modifier of position-effect variegation. *EMBO J.*, 11:4471-4479.
- Graba Y., Aragnol D., Laurenti P., Garzino V., Charmot D., Bérenger H., and Pradel J. (1992). Homeotic control in *Drosophila* : the scabrous gene is a direct target of Ultrabithorax proteins. *EMBO J.*, 11:3375-3384

AUTRES TRAVAUX PUBLIES

News item

Oulion S., Laurenti P. and Casane D. (2012). Organisation des gènes Hox : l'étude de vertébrés non-modèles mène à un nouveau paradigme. [Hox genes organization: studying non-model vertebrates leads to a paradigm shift] *Med Sci (Paris)* 28(4) : 10-13

Couverture de revue :

Debiais-Thibaud M. and Laurenti P. (2011). Front and back cover, *Evolution and Development* 13(3)

Ouvrages collectifs

Daniel RICHARD, Patrick CHEVALET, Sylvie FOURNEL, Nathalie GIRAUD, Frédéric GROS, Patrick LAURENTI, Fabienne PRADERE, Thierry SOUBAYA (2018). "Biologie, tout le cours en Fiche", 4e éd, Dunod, Paris.

Idem, (2015), 3e éd, Dunod, Paris.

Idem, (2012), 2e éd, Dunod, Paris.

Conseiller scientifique de l'ouvrage : Daniel Richard, Thierry Soubaya, Romain Nattier, Gaëlle Richard (2014) Atlas de phylogénie, Dunod, Paris

Published abstracts (hors actes de congrès)

S. Oulion, V. Borday-Birraux, P. Laurenti and D. Casane (2009). Expression of catshark Hox genes and evolution of vertebrate appendages. MOD 126, p: S250-S251 16th Annual Conference of the International-Society-of-Development-Biologists, SEP 06-10, 2009 Edinburgh, Scotland

Borday-Birraux V., Debiais-Thibaud M., Germon I., Bastian F., Laurenti P. and D. Casane. Molecular and functional evolution of the Dlx genes family in vertebrates (2005). Mechanism of Development, 122: S162 abstract 13-P037, 15th International Society of Developmental Biologists Congress, Sydney.

Debiais-Thibaud M., Laurenti P., Takarli M., Germon I., Casane D and V. Borday-Birraux. Common origin of pharyngeal and oral teeth: evidence provided by comparative expression data (2005). Mechanism of Development, 122: S162 abstract 13-P036, 15th International Society of Developmental Biologists Congress, Sydney.

Géraudie J., Borday V., Avaron F., Thaëron C., and P. Laurenti. Correlation between evx1 transcription and joint formation in developing and regenerating zebrafish fin rays (2000). Developmental Dynamics, 219: 456 abstract P22, 7th international conference on limb Development and Regeneration, Aussois.

Graba Y., Mariol M. C., Aragnol D., Laurenti P. and Pradel J. (1995). Effectors of homeotic genes and the control of morphogenesis in Drosophila. In: Proceedings of the workshop Interplay of Genetic and Physical Processes in the Development of Biological Forms. Elsevier Press.

Vulgarisation scientifique

Laurenti P. & Kerner P. L'Evo-Devo Kézako? (2017) Podcast Sciences

Podcast : <https://soundcloud.com/podcastscience/299-evo-devo>

Notes d'émission: <https://www.podcastscience.fm/emission/2017/06/03/podcast-science-299-evo-devo/>

Laurenti P. & Casane D. Tu sais ce qu'elle te dit la tête du petit poisson? (2013) [http://ssaft.com/Blog/dotclear/index.php?tag/Entelognathus primordialis](http://ssaft.com/Blog/dotclear/index.php?tag/Entelognathus_primordialis)

Laurenti P. (2012). Un bon fossile est un fossile mort

<http://ssaft.com/Blog/dotclear/index.php?post/2012/06/23/Un-bon-fossile-est-un-fossile-mort>

Laurenti P. & Rousse G. Le Capitalisme n'a pas attendu le génie génétique pour nous empoisonner la vie. Le Monde Libertaire, jeudi 23 avril 1998.

Rousse G. & Laurenti P. Faut-il avoir peur du clonage ? Le Monde Libertaire, jeudi 10 avril 1997.