

## CURRICULUM VITAE : Pascal THEROND



Born in Paris (France), 05/07/1963, married with two children.

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### Current Appointment:

Since 1998: Team leader (*DRCE CNRS*) at the Institute of Biology-Valrose, CNRS UMR 7277/INSERM 1091, University of Nice Côte d'Azur.

### Education and Research Training:

2002 : «Habilitation à Diriger les Recherches» (HDR). University Nice Côte d'Azur.  
1992-1997: Post-doctoral Research Associate, Principal Investigator: Pr. J.M. Bishop, *Nobel Prize of Medicine 1989*, University of California, San Francisco, CA, U.S.A  
1992: Ph.D. in Genetic and Molecular Biology (with Honors) University Paris VI

### Honors and Awards:

- 2020: « Research Grant Associated Team » from *Fondation Recherche Médicale* –FRM
- 2017 and 2021: Excellence Awards (Prime d'Excellence Scientifique), CNRS.
- 2015 : Recipient of the *Gallet et Breton Prize* from the french *Academy of Medicine*.
- 2011 : « Research Grant Associated Team » from *Fondation Recherche Médicale* –FRM
- 2009 and 2013: Excellence Awards (Prime d'Excellence Scientifique), CNRS.
- 2009: Recipient of the *Victor Noury Prize* from the *French Academy of Sciences*.
- 2005-2019: "Research Grant Associated Team" from *Ligue Nationale Contre le Cancer*
- 2004-2008: Marie Curie Host for Research Training (EC 6th Framework)
- 2004-2011: "Research Grant Associated Team" in the Canceropole PACA Network.
- 2001 : *Young Investigator Award (YIP)* from *EMBO*.
- 1998 : *ATIP Programme* in Cell Biology from *CNRS*.

### Activities:

- **Scientific Committees:** Appointment to the Scientific Council of the National Institute of Biological Sciences of the CNRS (2023). Chairman of the Advisory Board at the CNRS National Committee (study section 22, Cell and Developmental Biology, 2012-2016). Visiting Committee member for the national french HCERES agency (Reviewed Institutes: IGDR, Rennes 2016; CBD, LBMMCP, GCD and CBI, Toulouse 2014, 2019 and 2020; LBMC ENS and SFR Lyon 2015; LBD and IBPS, Paris 2017 and 2018); Ad Hoc reviewer for the Cancer charity association ARC (study section 2015-2018), "French National Ligue Against Cancer " (study section 2005-2008), Advisory Board of the University of Nice (Specialist Committee 64-65, 2005-2008), Advisory Board at the CNRS in the "National J. Monod Conferences" (study section 2001-2008). External reviewer for tenure track position in India, USA, and Italy.

- **Referee for International Granting Agencies:** - EMBO fellowships, NSF (USA), Cancer Research UK, MRC (UK), Wellcome Trust (UK), Netherlands Organisation for Scientific Research (NWO), Israel Science Foundation (ISF) Natural Sciences and Engineering Research Council of Canada (NSERC). National Granting Agencies: ACI, Conseil Régional, FRC, ANR, LNCC, ARC.

- **Referee for:** *Nature*, *Cell*, *Cell Reports*, *Nature Communication*, *Science Signaling*, *Developmental Cell*, *eLife*, *Genes and Development*, *Current Biology*, *Scientific reports*, *EMBO reports*, *EMBO*, *PLoS Biology*, *PLoS Genetics*, *Developmental Biology*, *Development*, *Cell Research*, *Genetics*, *Genes and Evolution*, *Trends in Cell Biology*, *Mechanisms of Development*, *BBRC*, *Chemistry & Biology*, *Neural Biology*.

- **Recent Editorial activities:** -Guest Editor pour *PLoS Genetics* (2020); - External Academic Editor for *PLoS Biology* (2020) - Review Editor on the Editorial Board of *Morphogenesis and Patterning* (section of *Frontiers in Cell and Developmental Biology*, 2021- ).

- **Co-organiser** of 10 international meetings including EMBO workshops. 1<sup>st</sup> joint Meeting of SFBD/BSDB (Nice, 2003) | Hedgehog-Gli Signaling (Geneva 2005) | French Drosophila Conference (St Jean Cap-Ferrat, CAFD 2006) | EMBO workshop (Rome 2006) | European Drosophila Research Conference EDRC (Nice, 2009) | Canceropôle PACA (Nice 2009) | EMBO workshop (St Jean Cap-Ferrat, 2010) | 2<sup>nd</sup> joint Meeting of the SFBD/BSDB (Nice, 2011) | Labex Signallife Workshop (Nice, 2019) | EMBO workshop Hedgehog Signaling (San Feliu de Guixols, Spain, 2023).

- **Invited seminars:** 50<sup>+</sup> in Europe, USA and Asia, including 9 EMBO Meetings.

- **Recent Grants (coordinator):** FRM (2011-2014), Team LNCC (2015-2019), ANR HHMOVE (2015-2019), ANR HHNEURO (2017-2020), ANR ART-Evs (2018-2022), FRM (2020-2022), EMBO Workshop (2022).

**Publications:** from 1990 to 2022: 58 publications. **Original work from the lab (P. Thérond first or last author, 36) :** *Cell* (1), *Nature* (1), *Nature Cell Biology* (1), *Nature Communication* (1), *Developmental Cell* (6), *Cell Reports* (1), *Genes and Development* (1), *Developmental Biology* (4), *Development* (8), *Proc. Natl. Acad. Sci. USA* (1), *Genetics* (3), *J. Biol. Chem.* (1), *Journal of Cell Science* (1), *Biology Open* (1), *PLOS One* (1), *European Journal of Cellular Biology* (1), *Mechanisms of Development* (1), *Developmental Dynamics* (1), *Biotechnics* (1).

**Work in collaboration (9):** *Nature* (1), *Current Biology* (1), *Development* (1), *Developmental Biology* (1), *Journal of Molecular Biology* (1), *Genetics* (1), *FEBS Letter* (1), *Biochem J.* (1), *J. Biol. Chem.* (1).

**Reviews (8):** *Nat Rev Mol Cell Biol.* (1), *Current Opinion in Cell Biology* (1), *EMBO Report* (1), *Trends in Cell Biol.* (1), *Journal of Cell Science* (1), *Development* (1), *Journal of Cell Science* (1), *Médecine Science* (2).

**Chapter Book (5):** *The protein kinase Facts Book* (1), *Methods Mol. Biol.* (2), *Morphogen Gradient Springer Press* (1), *Chemistry and Physics of Lipids* (1).

**PhD. Thesis:** Chairman, Referee or member of more than 15 PhD thesis and HDR committees.

**Science and General Public:** Hearing at the Senatorial Commission of Inquiry and interview on France 3 TV on the Research Tax Credit (2015).

**Media:** France 3 TV (2000; 2009; 2014). Nice-Matin Newspaper (2000; 2009; 2014).

**Field of expertise:** Cell Biology, Developmental Biology, Signal Transduction, Trafficking, Extracellular Movement, Morphogenes, Hedgehog.

Pascal Thérond laboratory explores the regulation of Hedgehog secretion and transduction in the dynamic control of patterning in *Drosophila melanogaster*. His team delineated signalling events immediately downstream the Hedgehog receptor and identified the protein module dedicated to the Hedgehog signal transduction. He showed that this protein complex controls signalling from Hedgehog by governing proteolysis and access to the nucleus of the transcription factor of the Ci/GLI protein family. His current research interests also include the spreading of the cholesterol-modified Hedgehog molecule in the *Drosophila* epitheliums. His team showed that the cholesterol adduct is necessary for the controlled planar long-range spreading of Hedgehog. His work pioneered the concept that overall morphogen gradient such as

Hedgehog is a cellular summation of pools secreted by different routes (apical and baso-lateral) and favoured the existence of several carriers for morphogen transportation. He also showed that Hedgehog is transported on extra-cellular vesicles for long-range activity. Recently, his team identified Hedgehog is a protective factor during adulthood acting as a determinant for lifespan. His laboratory served as a Marie Curie Host for Research Training (EC 6th Framework). Pascal Thérond was a recipient of the *EMBO Young Investigator Program award* (2001), of the *Victor Noury Prize from the French Academy of Science* (2009) and of the *Gallet et Breton Prize from the French Academy of Medicine* (2015).