

## CURRICULUM VITAE

### 1. DATOS PERSONALES

Nombre : Juan Agustin Larraín Correa  
Fecha de Nacimiento : 15 de enero de 1970  
Nacionalidad : Chileno  
E-mail : [jlarrain@bio.puc.cl](mailto:jlarrain@bio.puc.cl)

### 2. INFORMACION ACADÉMICA

#### 2.1 CARGOS

- **Director Instituto de Éticas Aplicadas** (2022- ), P. Universidad Católica de Chile
- **Vicerrector Académico** (2015-2020), P. Universidad Católica de Chile
- **Vicerrector de Investigación** (2010-2015), P. Universidad Católica de Chile
- **Profesor Titular** (2015- ), Facultad de Ciencias Biológicas, P. Universidad Católica de Chile
- **Profesor Asociado**, (2005-2015), Facultad de Ciencias Biológicas, P. Universidad Católica de Chile
- **Profesor Asistente**, (2002-2005), Facultad de Ciencias Biológicas, P. Universidad Católica de Chile
- **Investigador Asociado**, (2000-2002)  
Laboratorio del Dr. Eddy de Robertis  
HHMI/UCLA, USA

#### 2.2 ESTUDIOS UNIVERSITARIOS.

Licenciatura en Bioquímica: Facultad de Ciencias Biológicas.  
P. Universidad Católica de Chile.  
1988-1993

### 2.3. ESTUDIOS DE POST TÍTULO o POSTGRADO

Ph. D. en Biología Celular y Molecular: Facultad de Ciencias Biológicas. P. Universidad Católica de Chile. (1994-1998)

MSc. Philosophy, Science and Religion: University of Edinburgh  
(online) 2021- (Dissertation entregada)

Maestría en Filosofía: Universidad Austral (Argentina)  
con orientación en Fundamentos de las 2021- (tesis en desarrollo)  
Ciencias Naturales y Cognitivas (online)

### 2.4. PERIODOS DE PERFECCIONAMIENTO

Pew Latin American Postdoctoral Fellow: Howard Hughes Medical Institute, UCLA  
(1998-2000).

### 3. PREMIOS Y DISTINCIONES OBTENIDOS. (No indique proyectos)

Nombre del Premio	Institución que lo otorga	Año de obtención
Medalla Pío XI	Academia Pontificia de Ciencias	2008
TWAS ROLAC Young Scientist Award	TWAS	2007
Premio al Investigador Joven	Sociedad Chilena de Biología	2006
Programa Científico de Frontera	Academia Chilena de Ciencias	2004-2006
Premio Mejor Tesis de Doctorado en Biología	Academia Chilena de Ciencias	1999
Premio Mejor Tesis Doctoral	Sociedad Chilena de Biología Celular	1999
Pew Latin American Postdoctoral Fellow	PEW	1998-2000
Beca de Doctorado Fundación Andes	Fundación Andes	1994-1998
Mejor Bioquímico Graduado	Pontificia Universidad Católica de Chile	1993
Beca de Investigación DIUC	Pontificia Universidad Católica de Chile	1993

## **4. PUBLICACIONES**

### **4.1.- FILOSOFIA y ÉTICA**

#### **4.1.1.- Revistas indexadas**

1.- Ventura-Juncá, P., Santos, M., and **Larraín, J.** (2009) Proposals for embryonic stem cell production without destroying human embryos: scientific and bioethical challenge Acta Bioethica 15, 222-233 (Scopus)

2.- **Larraín, J.** y Franck, J. F. (2021) Perspectiva de segunda persona y racionalidad en las decisiones morales. Evidencia científica y límites del emotivismo. Philosophia 81: 39-71 (Latindex)

#### **4.1.2.- Otras publicaciones**

1.- **Larraín, J.** (2021) Causalidad y casualidad en Santo Tomás: ¿una propuesta de consonancia entre acción divina y evolución? Humanitas 98: 618-631.

## **4.2.- EDUCACION**

### **4.2.1.- Capítulos de Libros**

1.- Paulina Rodríguez, Carola Méndez, Gonzalo Pizarro y **Juan Larraín** (2018) “La formación general como parte del proyecto educativo a través de la historia de la Pontificia Universidad Católica de Chile”, en Ideas en Educación II. Definiciones en tiempos de cambio, ed. por Ignacio Sánchez (Santiago, Chile: Ediciones Universidad Católica de Chile).

2.- **Larraín, J.** (2020) “La formación integral en una universidad católica”, en A 30 años de *Ex Corde Ecclesiae*, Reflexiones de destacados académicos. (Santiago, Chile: P. Universidad Católica, DUOC UC)

3.- Page, O., y **Larrain, J.** (2021) Desarrollo de las Éticas Aplicadas en la Educación Superior: Un Desafío Interdisciplinar, en Ideas en Educación, ed. Ignacio Sánchez, Santiago, Chile: Ediciones UC.

#### 4.3.- BIOLOGIA

##### 4.3.1.- Revistas indexadas (WoS)

- 1.- Lobos, S., **Larrain, J.**, Salas, L., Cullen, D., and Vicuna, R. (1994). Isoenzymes of manganese-dependent peroxidase and laccase produced by the lignin-degrading basidiomycete *Ceriporiopsis subvermispora*. *Microbiology* 140, 2691-8.
- 2.- Salas, C., Lobos, S., **Larrain, J.**, Salas, L., Cullen, D., and Vicuna, R. (1995). Properties of laccase isoenzymes produced by the basidiomycete *Ceriporiopsis subvermispora*. *Biotechnol. Appl. Biochem.* 21, 323-33.
- 3.- Urzua, U., Larrondo, L., Lobos, S., **Larrain, J.**, and Vicuna, R. (1995). Oxidation reactions catalyzed by manganese peroxidase isoenzymes from *Ceriporiopsis subvermispora*. *FEBS Lett.* 371, 132-6.
- 4.- Brandan, E., Carey, D.J., **Larrain, J.**, Melo, F., and Campos, A. (1996). Synthesis and processing of glypican during differentiation of skeletal muscle cells. *Eur. J. Cell Biol.* 71, 170-6.
- 5.- **Larrain, J.**, Cizmeci-Smith, G., Troncoso, V., Stahl, R.C., Carey, D.J., and Brandan, E. (1997). Syndecan-1 expression is down-regulated during myoblast terminal differentiation. Modulation by growth factors and retinoic acid. *J. Biol. Chem.* 272, 18418-24.
- 6.- **Larrain, J.**, Alvarez, J., Hassell, J.R., and Brandan, E. (1997). Expression of perlecan, a proteoglycan that binds myogenic inhibitory basic fibroblast growth factor, is down regulated during skeletal muscle differentiation. *Exp. Cell Res.* 234, 405-12.
- 7.- Brandan, E. and **Larrain, J.** (1998). Heparan Sulfate Proteoglycans during terminal skeletal muscle differentiation: possible functions and regulation of their expression. *Basic and Applied Myology* 8, 107-114.
- 8.- **Larrain, J.**, Carey, D.J., and Brandan, E. (1998). Syndecan-1 expression inhibits myoblast differentiation through a basic fibroblast growth factor-dependent mechanism. *J. Biol. Chem.* 273, 32288-96.
- 9.- **Larrain, J.**, Bachiller, D., Lu, B., Agius, E., Piccolo, S., and De Robertis, E.M. (2000). BMP-binding modules in chordin: a model for signalling regulation in the extracellular space. *Development* 127, 821-30.
- 10.- Oelgeschlager, M., **Larrain, J.**, Geissert, D., and De Robertis, E.M. (2000). The evolutionarily conserved BMP-binding protein Twisted gastrulation promotes BMP signalling. *Nature* 405, 757-63.
- 11.- De Robertis, E. M., **Larrain, J.**, Oelgeschlager, M., Wessely, O. (2000). The establishment of Spemann's organizer and patterning of the vertebrate embryo. *Nature Review Genetics* 1, 171-81.
- 12.- Coffinier, C., Tran, U., **Larrain, J.** and De Robertis, E.M. (2001). Neuralin is a novel Chordin-related molecule expresses in the mouse neural plate. *Mechanism of Development* 100, 119-122.
- 13.- Riquelme, C., **Larrain, J.**, Schonherr, E., Henriquez, J.P., Kresse, H. and Brandan, E. (2001). Antisense inhibition of decorin in myoblasts decreases cell responsiveness to transforming growth factor beta and accelerates skeletal muscle differentiation. *J. Biol. Chem.* 276, 3589-3596.

- 14.- De Robertis, E. M., Wessely, O., Oelgeschlager, M., Brizuela, B., Pera, E., **Larrain, J.**, Abreu, J. and Bachiller, D. (2001). Molecular mechanism of cell-cell signalling by Spemann's organizer. *Int. J. Dev. Biology* 45, 189-197.
- 15.- **Larrain, J.**, Oelgeschlager, M., Keptura, N.I., Reversade, B., Zakin, L. and De Robertis E.M. (2001). Proteolysis of Chordin as a switch for the dual activities of Twisted gastrulation on BMP. *Development* 128, 4439-4447.
- 16.- Garcia-Abreu, J., Coffinier, C., **Larrain, J.**, Oelgeschlager, M. and De Robertis, E.M. (2002). Chordin-like CR domains and the regulation of evolutionary conserved extracellular signaling systems. *Gene* 287, 39-47.
- 17.- **Larrain, J.**, Brown, C. and De Robertis, E. M. (2003). Integrin- $\alpha$ 3 mediates binding of Chordin to the cell surface and promotes its endocytosis. *EMBO Reports* 4, 813-18.
- 18.- Oelgeschläger, M., Reversade, B., **Larraín, J.**, Little, S., Mullins, M.C. and De Robertis, E. M. (2003). The pro-BMP activity of Twisted gastrulation is independent of BMP binding. *Development* 130, 4047-4056.
- 19.- Moreno, M., Muñoz, R., Aroca, F., Labarca, M., Brandan, E. and **Larraín, J.** (2005). Biglycan is a new extracellular component of the Chordin-BMP4 signalling pathway. *EMBO, J.* **24**, 1397-1405.
- 20.- Carrasco, H., Olivares, G., Faunes, F., Oliva, C. and **Larraín, J.** (2005). Shh activity is negatively regulated by heparan sulphate proteoglycans. *J. Cell Biochem.* 96 831-838.
- 21.- Muñoz, R., Moreno, M., Oliva, C., Orbenes, C., **Larraín, J.** (2006). Syndecan-4 regulates non-canonical Wnt signaling and is essential for convergent and extension movements in *Xenopus* embryos. *Nat. Cell Biol.* 8, 492-500.
- 22.- Muñoz, R. and Larraín, J. (2006). xSyndecan-4 regulates gastrulation and neural tube closure in *Xenopus* embryos. *Scientific World Journal.* 6, 1298-301.
- 23.- Matthews, H.K., Marchant, L., Carmona-Fontaine, C., Kuriyama, S., **Larraín, J.**, Holt, M.R., Parsons, M. and Mayor, R. (2008) Directional migration of neural crest cell in vivo is regulated by syndecan-4 dependent Rac1 and non-canonical Wnt signalling-dependent RhoA. *Development* 135, 1771-1780.
- 24.- Olivares, G.H., Carrasco, H., Aroca, F., Carvallo, L., Segovia, F. and **Larraín, J.** (2009). Syndecan-1 regulates BMP signaling and dorso-ventral patterning during early *Xenopus* development Syndecan-1 regulates BMP signaling and dorso-ventral patterning during early *Xenopus* development *Dev. Biology.* 329, 338-349.
- 25.- Faunes, F., Sánchez, N., Castellanos, J., Vergara, I., Melo, F. and **Larraín, J.** (2009). Novel transcripts with differential dorsoventral expression in *Xenopus* gastrula identified by SAGE *Genome Biology* 10(2):R15.
- 26.- Contreras, E.G., Gaete, M., Sánchez, N., Carrasco, H. and **Larraín, J.** (2009). Early requirement of Hyaluronan synthase activity for tail regeneration in *Xenopus* tadpoles *Development* 136, 2987-2996.
- 27.- Carvallo, L., Muñoz, R., Bustos, F., Escobedo, N., **Larraín, J.** (2010). Non-canonical Wnt signaling induces ubiquitination and degradation of Syndecan. *J. Biological Chemistry* 285, 29546-29555.
- 28.- V. Palma, H. Carrasco, G. Reinchisi, G. Olivares, F. Faunes and **Larraín, J.** (2011). SHH activity and localization is regulated by perlecan. *Biol. Res.* 44, 63-67.
- 29.- F. Faunes, N. Sánchez, M. Moreno, G. Olivares, D. Lee-Liu, L. Almonacid, A. Slater, T. Norambuena, R. Taft, J. Mattick, F. Melo and **Larrain, J.** (2011). Regulated expression of

- transposable elements in neural tissues during *Xenopus* development. PLoS One 6, e22569.
- 30.- Faunes, D., Lee-Liu and **Larraín, J.** (2011). Expression of DNA transposable elements during nervous system development: A discussion about its possible functions. *Mobile Genetic Elements* 1, 296-300
  - 31.- Faunes, F., Almonacid, L., Melo, F., and **Larraín, J.** (2012). Characterization of small RNAs in *X. tropicalis* gastrulae. *Genesis* 50, 572-583
  - 32.- Lee-Liu, D., Faunes, F., Almonacid, L.I., Melo, F. and **Larraín, J.** (2012) Transcriptomics Using next Generation Sequencing Technologies. In *Methods Mol. Biol.* 917, 293-317
  - 33.- Gaete, M., Muñoz, R., Sánchez, N., Tampe, R., Moreno, M., Contreras, E., Lee-Liu, D. and **Larraín, J.** (2012). Spinal cord regeneration in *Xenopus* tadpoles proceeds through activation of Sox2 positive cells. *Neural Dev.* 7, 13.
  - 34.- Escobedo, N., Contreras, O., Muñoz, R., Farías M., Carrasco, H., Hill C., Tran, U., Wessely O., Copp A.J. and **Larraín, J.** (2013). Syndecan 4 interacts with Vangl2 to regulate neural tube closure and planar cell polarity. *Development.* 140, 3008-3017
  - 35.- Lee-Liu, D., Edwards-Faret, G., Tapia, V. and **Larraín, J.** (2013). Spinal Cord Regeneration: Lessons for Mammals from Non-Mammalian Vertebrates. *Genesis* 51, 529-44.
  - 36.- Astudillo, P., Carrasco, H. and **Larraín, J.** (2014). Syndecan-4 inhibits Wnt/ $\beta$ -catenin signaling through regulation of Low-Density Lipoprotein receptor-related protein (LRP6) and R-Spondin 3. *Int. J. Biochem. Cell Biol.*, 46, 103-112.
  - 37.- Astudillo, P. and **Larraín, J.** (2014). Wnt signaling and cell-matrix adhesion. *Current Molecular Medicine* 14, 209-220.
  - 38.- Lee-Liu, D., Moreno, M., Almonacid, L.I., Tapia, V.S., Muñoz, R., von Marees, J., Gaete, M., Melo, F., and **Larraín, J.** (2014) Genome-wide expression profile of the response to spinal cord injury in *Xenopus laevis* reveals extensive differences between regenerative and non-regenerative stage. *Neural Dev.* 9, 12.
  - 39.- Muñoz, R., Edwards-Faret, G., Moreno, M., Zuñiga, N., Cline, H. and **Larraín, J.** (2015) Regeneration of *Xenopus laevis* spinal cord requires Sox2/3 expressing cells. *Dev. Biol.* 408, 229-243.
  - 40.- Riadi, G., Ossandón, F., **Larraín, J.** and Melo, F. (2016) Towards the bridging of molecular genetics data across *Xenopus* species *BMC Genomics* 17, 161
  - 41.- Faunes, F. and **Larraín, J.** (2016) "Conservation in the involvement of heterochronic genes and hormones during developmental transition" *Dev. Biol.* 416, 3-17
  - 42.- Lee-Liu, D., Méndez-Olivos, E.E., Muñoz, R. and **Larraín, J.** (2017) The African Clawed frog *Xenopus laevis*: a model organism to study regeneration of the Central Nervous System. *Neurosci Lett.* 652, 82-93.
  - 43.- Edwards-Faret, G., Muñoz, R., Méndez-Olivos, E., Lee-Liu, D., Tapia, V.S. and **Larraín, J.** (2017) Spinal cord regeneration in *Xenopus laevis*. *Nature Protocols* 12, 372-389.
  - 44.- Tapia, V.S., Herrera-Rojas, M. and **Larraín, J.** (2017) JAK-STAT pathway activation in response to spinal cord injury in regenerative and non-regenerative stages of *Xenopus laevis*. *Regeneration* 4, 21-35 **(with Cover)**
  - 45.- Faunes, F., Guzmán-Gundermann, D., Muñoz, R., Bruno, R. and **Larraín, J.** (2017) "The heterochronic gene Lin28 regulates amphibian metamorphosis through disturbance of thyroid hormone homeostasis" *Dev. Biol.* 425: 142-151.

- 46.- Méndez-Olivos, E., Muñoz, R. and **Larraín, J.** (2017) Spinal cord cells from pre-metamorphic stages differentiate into neurons and promote axon growth and regeneration after transplantation into the injured spinal cord of non-regenerative *Xenopus laevis* froglets. *Frontiers Cellular Neuroscience*, 11: 398.
- 47.- Lee-Liu, D., Sun, L., Dovichi, N. and **Larraín, J.** (2018) Quantitative proteomics after spinal cord injury in a regenerative and a non-regenerative stage in *Xenopus laevis*. *Molecular and Cellular Proteomics*. 17, 592-606.
- 48.- Edwards-Faret, G., Cebrián-Silla, A., Méndez-Olivos, E.E., González, K., García-Verdugo, J.M. and **Larraín, J.** (2018) Cellular composition and organization of the spinal cord central canal during metamorphosis of the frog *Xenopus laevis*. *J. Comparative Neurology*, 526: 1712-1732.
- 49.- Méndez-Olivos, E. and **Larraín, J.** (2018) Cell Transplantation to study spinal cord regeneration. *Cold Spring Harb Protoc.* doi: 10.1101/pdb.prot101006.
- 50.- Bermedo-García, F., Ojeda, J., Méndez-Olivos, E.E., Marcellini, S. **Larraín, J.** and Henríquez, J.P. (2018) The neuromuscular junction of *Xenopus* tadpoles: revisiting a classical model of early synaptogenesis and regeneration. *Mech. Dev.* 154, 91-97.
- 51.- González-Itier, S., Contreras, E.G., **Larraín, J.**, Glavic, A., and Faunes, F. (2018) A role for Lin-28 in growth and metamorphosis in *Drosophila melanogaster*. *Mech. Dev.* 154, 107-115.
- 52.- Gundermann, D.G., Martínez, J., De Kervor, G., González-Pinto, K., **Larraín, J.**, and Faunes F. (2019) Overexpression of Lin28a delays *Xenopus* metamorphosis and downregulates *albumin* independently of its translational regulation domain *Dev Dyn.* 248, 969-978.
- 53.- De Vidts, S., Mendez-Olivos, E. Palacios, M., **Larraín, J.** and Mery, D. (2019) Characterization of spinal cord damage based on automatic video analysis of froglet swimming. *Biology Open.* 8, 12
- 54.- Morgado, P., Palacios, M., **Larraín, J.** (2020) *In situ* injectable hydrogels for spinal cord regeneration: advances from the last 10 years. *Biomedical Physics & Engineering Express.* 6, 012002.
- 55.- Edwards-Faret, G., González, K., Cebrián-Silla, A., Peñailillo, J., García-Verdugo, J.M. and **Larraín, J.** (2021) Cellular response to spinal cord injury in regenerative and non-regenerative stages in *Xenopus laevis*. *Neural Dev.* 16:2.
- 56.- Fukuoka, T., Kato, A., Hirano, M., Ohka, F., Aoki, K., Takayuki A., Alimu A., Maeda S., Kuniaki,T., Lee-Liu, D., **Larraín, J.**, Nishimura, Y. and Natsume, A. (2021) *Neurod4* converts endogenous neural stem cells to neurons with synaptic formation after spinal cord injury. *iScience.* 24: 102074.
- 57.- Slater, P.G., Palacios, M. and **Larraín, J.** (2021) *Xenopus*, a model to study wound healing and regeneration: experimental approaches. *Cold Spring Harb Protoc.* doi: 10.1101/pdb.top100966
- 58.- Peñailillo, J., Palacios, M., Mounieres, C., Muñoz, R., Slater, P.G., Domenico, E., Patrushev, I., Gilchrist, M. and **Larraín, J.** (2021) High expression profiling analysis of the early response to spinal cord injury identified a key role for mTORC1 signaling. *npj Regenerative Medicine* 6: 68.
- 59.- Slater, P.G. and **Larraín, J.** (2021) Spinal Cord Transection in *Xenopus laevis* Tadpoles. *Journal of Visualized Experiments* 178, doi: 10.3791/63276.

- 60.- Torruella, S., Slater, P., Lee-Liu, D. and **Larraín, J.** (2022) Cornifelin expression during *Xenopus laevis* metamorphosis and in response to spinal cord injury. *Gene Expression Patterns* (en prensa)
- 61.- Slater, P.G., Domínguez-Romero, M., Villarreal, M., Eisner, V., **Larraín, J.** Mitochondrial function in spinal cord injury and regeneration (2022). *Cell Mol. Life Sci.* 79: 239.
- 62.- Cordero-Véliz, C., **Larraín, J.**, and Faunes, F. Transcriptome analysis of the response to thyroid hormone in *Xenopus* neural stem and progenitor cells. *Dev. Dyn.* (en prensa)
- 63.- Sandoval, L., Labarca, M., Retamal, C., **Larraín, J.**, McMahan, A.P. and Gonzalez, A. Sonic hedgehog is basolaterally sorted from the TGN and transcytosed to the apical domain involving Dispatched-1 at Rab11-ARE. *Frontiers Cell and Developmental Biology* (en revisión)

#### 4.3.2.- Capítulos de libros y libros

- 1.- Moreno, M., Tapia, K. and **Larraín, J.** (2014) Neural regeneration in *Xenopus* tadpoles during metamorphosis. In *Xenopus* development. Life Sciences Book, Wiley-Blackwell
- 2.- Tapia, V. and **Larraín, J.** (2016). Role of JAK-STAT Signalling on Motor Function Recovery after Spinal Cord Injury. In *Recovery of Motor Function Following Spinal Cord Injury*, Heidi Fuller (Ed.), InTech, DOI: 10.5772/63418.
- 3.- Olivares, G. and **Larraín J.** (2018) Wnt signaling in homeostasis, disease and regeneration. *Progress in Molecular Biology and Translational Science*, Elsevier Inc.
- 4.- Slater, P.G., Edwards-Faret, G. and **Larraín, J.** (2022) Leaping towards the understanding of spinal cord regeneration. In *Xenopus*, from basic biology to disease models in the genomic era, Sally Moody and Abraham Fainsod (Eds). CRC Press.

#### 4.4. CONFERENCIAS INTERNACIONALES (speaker)

- 1.- 10<sup>th</sup> International *Xenopus* Meeting, Woods Hole, Massachusetts, USA. September 14-18, 2004.
- 2.- 2<sup>nd</sup> International Meeting, Latin American Society of Developmental Biology. Guarujá, Brazil. May 4-7, 2005.
- 3.- 12<sup>th</sup> Congress of the International Association of Catholic Medical Schools. Seoul, Korea, May 11-13, 2005.
- 4.- Gordon Conference in Developmental Biology, New Hampshire, USA June 19-24, 2005
- 5.- BSDB Fall Meeting in "Wnt signaling in Development, Disease and Cell Biology". Aberdeen, Scotland, September 14-16, 2005.
- 6.- Latest concepts in Developmental Biology, Córdoba, Argentina. April 20-23 2006.
- 7.- Gordon Conference in Proteoglycans, New Hampshire, USA July 9-14, 2006.
- 8.- 11<sup>th</sup> International *Xenopus* Conference. Tokyo, Japan, September 12-16, 2006.



- 9.- Simposio da America Latina e Caribe para Jovens Cientistas TWAS-ROLAC. Reuniao Magna da Academia Brasileira de Ciencias. Rio de Janeiro, May 29-31, 2007
- 10.- Society for Developmental Biology, 66<sup>th</sup> Annual Meeting. Cancún, México, June 16-20, 2007.
- 11.- TWAS 18<sup>th</sup> General Meeting, November 13-14 2007, Trieste, Italy
- 12.- Santa Cruz Developmental Biology, Santa Cruz, USA; June 26-29, 2008.
- 13.- 12<sup>th</sup> International Xenopus Conference. Leiwun, Germany, September 8-12, 2008.
- 14.- 2<sup>nd</sup> EMBO Conference Series. Molecular and Cellular Basis of Regeneration and Tissue Repair. October 5-9, 2008. Palma de Mallorca, Spain.
- 15.- EMBO Workshop "Wnt signaling in Development and Disease". Arolla, Switzerland, August 26-29, 2009.
- 16.- LASDB V Meeting, Santa Cruz, Chile, November 2010
- 17.- Mechanisms of Whole Organ Regeneration, Keystone Symposium, Colorado, USA April 1-6, 2012.
- 18.- VI International Meeting of the Latin American Society for Developmental Biology, Montevideo, Uruguay April 26-29, 2012.
- 19.- 10th International Congress on Cell Biology and 16th Congress of Brazilian Society for Cell Biology. Rio de Janeiro – Brazil Julio 25-28, 2012
- 20.- International Society for Developmental Biology, Cancún, México June 16-21, 2013.
- 21.- Cell Morphodynamics Latin America International Symposium, Visualization and Manipulation of signals and forces in developing tissues. Santiago, Chile. Mayo 12-16, 2014
- 22.- 15<sup>th</sup> International Xenopus Conference, Asilomar, USA August 2014
- 23.- Chilean Society for Cell Biology – XXVIII Annual Meeting – October, Chile. 26-30, 2014.
- 24.- "Genomic and epigenomic insights into vertebrate regeneration, development and evolution - Xenopus and fish as models", Santiago, Chile November 2014
- 25.- Wnt Symposium 2015, Heidelberg, May 26-28 2015
- 26.- Primer Encuentro Nacional de Biología del Desarrollo, Sociedad Colombiana de Biología del Desarrollo, 24 de Septiembre de 2015. Keynote speaker
- 27.- VIII International Meeting of the Latin American Society for Developmental Biology, Santos, Brasil, October 20-23, 2015.
- 28.- 16<sup>th</sup> International Symposium on Neural Regeneration, Asilomar, USA. November 30-December 4, 2015. Chair and Conference
- 29.- 16<sup>th</sup> International Xenopus Conference. Crete, August 2016.
- 30.- Orkand Lecture, Comparative Regenerative Biology Course, Mount Dessert Island Laboratories, Maine, USA. July 2017
- 31.- Regenerative Medicine and Developmental Biology Symposium Series, Australian Regenerative Medicine Institute (ARMI), Melbourne, Australia. 9-10 October 2017.
- 32.- XIII Congreso Nacional, Sociedad Mexicana de Biología del Desarrollo, Puebla, México, Octubre, 2018
- 33.- Second ABC Symposium, Australia-Brazil-Chile Regenerative Medicine, Puerto Varas, Chile, October, 2018
- 34.- Research Grants Conference, TWAS Nepal, June 2019
- 35.- Central Nervous System Injury and Repair, Gordon Research Conference, USA, June 2019