

## ***CURRICULUM VITAE***

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### **ACADEMIC EDUCATION**

**1999-2003:** Doctor in Biological Sciences, PEDECIBA, Uruguay.

**1995-1998:** Master in Biological Sciences, PEDECIBA, Uruguay.

**1989-1995:** Degree in Biological Sciences, Fac. Ciencias, UdelaR, Uruguay.

### **ACADEMIC POSITIONS**

#### **Current:**

**2016-** : Associate Professor (G4), Biología Celular, Facultad de Ciencias, UdelaR, Uruguay.

**2014-** : Principal Investigator, Institut Pasteur de Montevideo, Uruguay (honorary).

**2015-** : Investigator, Grado 4, PEDECIBA, Uruguay (honorary).

**2017-** : Investigator, Level II, Sistema Nacional de Investigadores, Uruguay.

#### **Previous (selected):**

**2009-2017:** Investigator, Level I, Sistema Nacional de Investigadores, Uruguay.

**2007-2016:** Adjunct Professor (G3), Biología Celular, Facultad de Ciencias, UdelaR, Uruguay.

**2003-2006:** Research Associate, Prof. W.A. Harris lab, Department of Physiology, Development and Neuroscience, University of Cambridge, UK.

### **PUBLICATIONS**

#### **Recent peer-reviewed international publications**

Aparicio G, Arruti C, **Zolessi FR** (2018) MARCKS phosphorylation by PKC strongly impairs cell polarity in the chick neural plate. *Genesis* 56(4): e23104. doi: 10.1002/dvg.23104.

Paravani E.V., Simoniello M.F., Poletta G.L., **Zolessi F.R.**, Casco V.H. (2018) Cypermethrin: Oxidative stress and genotoxicity in retinal cells of the adult zebrafish. *Mutat Res.* 826:25-32. doi: 10.1016/j.mrgentox.2017.12.010.

Álvarez G., Perdomo C., Coronel C., Aguilera E., Varela J., Aparicio G., **Zolessi F.R.**, Cabrera N., Vega C., Rolón M., Rojas De Arias A., Pérez-Montfort R., Cerecetto H., González M. (2017) Multi-anti-parasitic activity of arylideneketones and thiazolidenedrazines against *Trypanosoma cruzi* and *Leishmania spp.* *Molecules* 22(5). pii: E709. doi: 10.3390/molecules22050709.

Prieto D., **Zolessi F.R.** (2017) Functional diversification of the four MARCKS family members in zebrafish neural development. *J. Exp. Zool. (Mol. Dev. Evol.)* 328(1-2):119-138. doi: 10.1002/jez.b.22691.

Lepanto P., Badano J.L., **Zolessi F.R.** (2016) Neuron's little helper: the role of primary cilia in neurogenesis. *Neurogenesis.* 3:1, e1253363.

Lepanto P., Davison C., Casanova G., Badano J.L., **Zolessi F.R.** (2016) Characterization of primary cilia during the differentiation of retinal ganglion cells in the zebrafish. *Neural Dev.* 11(1):10.

**Zolessi F.R.** (2016) Vertebrate neurogenesis: cell polarity (v. 3). *Encyclopedia of Life Sciences* (Wiley). DOI: 10.1002/9780470015902.a0000826.pub3.

Prieto D., Aparicio G., Machado, M., **Zolessi F.R.** (2015) Application of the DNA-Specific Stain Methyl Green in the Fluorescent Labeling of Embryos. *J. Vis. Exp.* (99), e52769.

Paolini A, Duchemin AL, Albadri S, Patzel E, Bornhorst D, González Avalos P, Lemke S, Machate A, Brand M, Sel S, Di Donato V, Del Bene F, **Zolessi FR**, Ramialison M, Poggi L. (2015)

- Asymmetric inheritance of the apical domain and self-renewal of retinal ganglion cell progenitors depend on Anillin function. *Development* 142(5): 832-839.
- Prieto D., Aparicio G., Morande P.E., **Zolessi F.R.** (2014) A fast, low cost, and highly efficient fluorescent DNA labeling method using methyl green. *Histochem Cell Biol* 142(3):335-345.
- Tinoco L.W., Fraga J.L., Anobom C.D., **Zolessi F.R.**, Obal G., Toledo A., Pritsch O., Arruti C. (2014) Structural characterization of a neuroblast-specific phosphorylated region of MARCKS. *Biochim Biophys Acta* 1844(4): 837-849.
- Toledo A., **Zolessi F.R.**, Arruti C. (2013) A novel effect of MARCKS phosphorylation by activated PKC: the dephosphorylation of its serine 25 in chick neuroblasts. *PLOS ONE* 8(4): e62863.
- Ruiz-Perera L.M., Arruti C., **Zolessi F.R.** (2013) Early phosphorylation of MARCKS at Ser25 in migrating precursor cells and differentiating peripheral neurons. *Neurosci. Lett.* 544: 5-9.
- Randlett O., Poggi L., **Zolessi F.R.**, Harris W.A. (2011) The oriented emergence of axons from retinal ganglion cells is directed by Laminin contact in vivo. *Neuron* 70(2): 266-280.

### **AWARDS AND HONORARY POSITIONS**

**2008:** Luz y Verdad Award. Fund. Clara y Víctor Soriano, B’Nai B’Rith Uruguay.

**2006:** BioMed Central Award in Biology, UK.

**2004-2005:** Research Associate, Clare College, University of Cambridge, UK.

### **RESEARCH GRANTS (current)**

**2015-2018:** Fondo Clemente Estable, Nivel 1, ANII, Uruguay. “Neuronal orientation in the polarized environment of the developing neural retina: influence of Slit proteins”.

### **ORGANIZATION OF CONGRESSES AND SYMPOSIA (recent selected)**

**2014:** XV Jornadas de la Sociedad Uruguaya de Biociencias (SUB). President. 05-07/09. Argentino Hotel, Piriápolis, Uruguay.

**2012:** VI International Meeting of the Latin American Society for Developmental Biology (LASDB). Radisson Victoria Plaza Hotel, Montevideo.

**2010/2014:** II and IV Symposium Development and Plasticity of the Nervous System. Montevideo.

**2010:** I Meeting of the Latin American Zebrafish Network (LAZEN). Montevideo.

### **GRADUATE TEACHING ACTIVITY AND THESIS SUPERVISION**

#### **Thesis supervision, current:**

**2016- :** Gonzalo Aparicio, Doctoral Thesis, and Magela Rodao, Master Thesis. PEDECIBA.

**2014- :** Camila Davison, Doctoral Thesis (codirection B. Harris), and Ileana Sosa, Master Thesis (codirection G. Bedó). PEDECIBA.

**Previous, graduated in:** 2017, Paola Lepanto, Doctoral Thesis (codirection J. Badano); 2015, Gonzalo Aparicio, Master; 2012, Daniel Prieto, Master; 2011, Soledad Astrada, Master (codirection with R. Cantera). PEDECIBA

#### **Graduate courses organization (recent selected):**

**2016:** Course on Processing and Analysis of Fluorescence Microscopy Images. With F. Lecumberry and P. Aguilar. Institut Pasteur de Montevideo. Uruguay.

**2014:** Development and Plasticity of the Nervous System IV. With Brauer M. and Rossi F.M. IIBCE, IPMon and Facultad de Ciencias-UdelaR, Montevideo.

**2012:** NSF PASI: A Systems Biology Approach to Organismal Evolution. With N. Berois, I. Chow and M. Levine. LASDB/SDB. IPMon and F. Ciencias-UdelaR, Montevideo.

**2010:** Regional training course Development and Plasticity of the Nervous System II. With Brauer M. and Rossi F.M. IIBCE, IPMon and Facultad de Ciencias-UdelaR, Montevideo.

**Participation in international graduate courses (recent selected):**

**2016:** IV LAZEN Course. PUCR, Porto Alegre, Brasil.

**2014:** III LAZEN Course. CINV, Universidad de Valparaíso, Chile.

**2012:** II LAZEN Course on “Zebrafish husbandry protocols and state of the art experimental approaches”. IBR, Rosario, Argentina.

**OTHER ACTIVITY**

**Participation in committees**

**2011-present:** Board, Latin American Society for Developmental biology (LASDB).

**2013-2015:** President, Sociedad Uruguaya de Biociencias.

**2010-2014:** LAZEN (Latin American Zebrafish Network) Coordinating committee.