*CURRICULUM VITAE*

**Flavio R. Zolessi**

Birth: 04/12/1970, Montevideo, Uruguay.
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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.
**2019- :** Associate Researcher, Institut Pasteur de Montevideo, Uruguay (honorary).
**2015- :** Investigator, Grado 4, PEDECIBA, Uruguay (honorary).
**2017-** : Investigator, Level II, Sistema Nacional de Investigadores, Uruguay.

**Previous (selected):**

**2014-2019:** Principal Investigator, Institut Pasteur de Montevideo, Uruguay (honorary).
**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.

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.

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 thiazolidenehydrazines against *Trypanosoma cruzi* and *Leishmania spp*. Molecules 22(5). pii: E709. doi: 10.3390/molecules22050709.

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)**

**2015-2019:** 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 (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:**

**2018- :** Lucía Veloz, Master Thesis (codirection M. Graña). PEDECIBA.

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

**2014- :** Camila Davison, Doctoral Thesis (codirection W.A. 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 (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 (selected):**

**2018:** V LAZEN Course. UNAM, Cuernavaca, Mexico.

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

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

**2009:** III Workshop Microscopía de Fluorescencia 3D, U. Nacional de Entre Ríos, Argentina.

**OTHER ACTIVITY**

**Participation in committees**

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

**2010-2014/2018-present:** LAZEN (Latin American Zebrafish Network) Coordinating committee.

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