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## Dr Ariel Alejandro Bazzini

### Positions

- 2013-present Research Associate Scientist, in Dr Antonio J. Giraldez lab. Yale University. New Haven, USA.
- 2010-2013 Postdoctoral Fellow, in Dr Antonio J. Giraldez lab. Yale University. New Haven, USA.
- 2009 Short stay in Alisdair N. Fernie lab. Max Planck Institute of Molecular Plant Physiology. Gölml, Germany.
- 2008-2009 Postdoctoral Research, in Dr Sebastian Asurmendi lab. National Institute of Agriculture Technology (INTA), Biotechnology Institute, Castelar, Argentina.
- 2003-2007 Ph. D. in Dr Sebastian Asurmendi lab. INTA, Biotechnology Institute and University of Buenos Aires, Argentina.
- 2003-2004 Invited Scientist to the Dr Roger N. Beachy lab. Donald Danforth Plant Science Center, MO, USA.
- 2001-2003 M.S with Dr. Cecilia Vazquez-Rovere in Dr Esteban Hopp lab, INTA and University of Buenos Aires, Argentina.

### Honors

- 2010-2012 The **Pew** Latin American Fellowship. Program in the Biomedical Sciences
- 2012 Outstanding presentation award. 7<sup>th</sup> Mycosymposium on Small RNAs, Basel, Switzerland.
- 2011 Keystone meeting fellowship. NIH Health, Grant #1R13HD069083-01.
- 2009 Galicia Bank and La Nacion newspaper Award. Best research work, Argentina.
- 2009 **EMBO** short-term fellowship, Germany.
- 2008-2010 CONICET Postdoctoral fellowship, Argentina. Not accepted.
- 2007-2009 CONICET PhD fellowship type II, Argentina.
- 2007 Ezio Emiliani Award. Best biotechnology PhD thesis. Litoral University, Argentina.
- 2006 Pérez Companc Foundation Award. Best research work, Argentina.
- 2005-2007 CONICET PhD fellowship type I, Argentina.
- 2003-2005 PICT fellowship, Argentina.

### All peer-reviewed publications

1. **A.A. Bazzini**<sup>#‡</sup>, T.G. Johnstone<sup>#</sup>, R. Christiano, S.D. Mackowiak, B. Obermayer, E.S. Fleming, C.E. Vejnar, M.T. Lee, N. Rajewsky<sup>‡</sup>, T.C. Walther, A.J. Giraldez<sup>‡</sup>. Identification of small ORFs in vertebrates using ribosome footprinting and evolutionary conservation. **EMBO J.** 2014 May 2;33(9):981-93.
2. M.T. Lee<sup>#</sup>, A.R. Bonneau<sup>#</sup>, C.M. Takacs, **A.A. Bazzini**, K.R. DiVito, E.S. Fleming, A.J. Giraldez. Nanog, Pou5f1 and SoxB1 activate zygotic gene expression during the maternal-to-zygotic transition. **Nature.** 2013 Nov 21;503(7476):360-4.

3. **A.A. Bazzini**<sup>#</sup>, M.T. Lee<sup>#</sup>, A.J. Giraldez. Ribosome profiling shows that miR-430 reduces translation before causing mRNA decay in zebrafish. **Science**. 2012 Apr 13;336(6078):233-7.
4. **A.A. Bazzini**, C.A. Manacorda, T. Tohge, G. Conti, M.C. Rodriguez, A. Nunes-Nesi, S. Villanueva, A.R. Fernie, F. Carrari, S. Asurmendi. Metabolic and miRNA profiling of TMV infected plants reveals biphasic temporal changes. **PLoS One**. 2011;6(12):e28466.
5. **A.A. Bazzini** and A.J. Giraldez. MicroRNAs sculpt gene expression in embryonic development: new insights from plants. **Dev Cell**. 2011 Jan 18;20(1):3-4. Review
6. **A.A Bazzini**<sup>#</sup>, R Asís<sup>#</sup>, V González, S Bassi, M Conte, M Soria, A.R Fernie, S Asurmendi, F Carrari. miSolRNA: A tomato micro RNA relational database. **BMC Plant Biol**. 2010 Nov 8;10:240.
7. **A.A Bazzini**, N.I. Almasia, C.A. Manacorda, V.C. Mongelli, A.J. Distéfano, G.A. Maroniche, M.C. Rodriguez, G Conti, H.E. Hopp, M del Vas and S Asurmendi. Virus infection alters transcriptional activity of miR164a promoter in plants. **BMC Plant Biol**. 2009 Dec 30;9:152.
8. N.I. Almasia, **A.A. Bazzini**, H.E. Hopp and C. Vazquez-Rovere. Overexpression of snakin-1 gene enhances resistance to *Rhizoctonia solani* and *Erwinia carotovora* in transgenic potato plants. **Molecular Plant Pathology**. 2008 9 (3), 329–338.
9. **A.A. Bazzini**, H.E. Hopp, R.N. Beachy, and S. Asurmendi. Infection and coaccumulation of tobacco mosaic virus proteins alter microRNA levels, correlating with symptom and plant development. **Proc Natl Acad Sci USA**. 2007 Jul 17;104 (29):12157-62.
10. M Bendahmane, I Chen, S Asurmendi, **A.A Bazzini**, J Szecsi and R.N. Beachy. CP-MR to TMV infection of *Nicotiana tabacum* involves multiple modes of interference by coat protein. **Virology**. 2007 Sep 15;366(1):107-16.
11. **A.A. Bazzini**, V.C. Mongelli, H. E. Hopp, M. del Vas and S. Asurmendi. A practical approach to the understanding and teaching of RNA silencing in plants. Electronic journal of Biotechnology. **Elect J Biotechnol**, 2007 April 15 DOI:10.2225/vol10-issue2-fulltext-11
12. **A.A. Bazzini**, H. E. Hopp, R. N. Beachy, and S. Asurmendi. Posttranscriptional Gene Silencing Does Not Play a Significant Role in Potato virus X Coat Protein Mediated Resistance. **Phytopathology**. 2006 Nov 96 (11): 1175-8.
13. **A.A. Bazzini**, S. Asurmendi, H.E. Hopp, R.N. Beachy. Tobacco mosaic virus (TMV) and potato virus X (PVX) coat proteins confer heterologous interference to PVX and TMV infection, respectively. **J Gen Virol**. 2006 Apr;87(Pt 4):1005-12.

## **Books**

**A.A. Bazzini**<sup>‡</sup> and S. Asurmendi. Effects of Virus Infection on Transcriptional Activity of miR164a in Plants. **Non Coding RNAs in Plants**. Erdmann, Volker A.; Barciszewski, Jan (Eds.) 1st Edition., 2011, XVII. 359-373.

<sup>‡</sup> Corresponding authors.      <sup>#</sup> Co-authors

## **Talks**

- 2014 “Sequencing the translation landscape”. Illumina St. Louis User Group Meeting, November 12.
- 2014 “Sequencing the translation landscape”. CT Illumina Sequencing User Meeting, November 5.
- 2014 “Found in translation”. Translational Control meeting. Cold Spring Harbor Laboratory. Sep 2-6.
- 2013 “Using Ribosome profiling to gain insight into the mechanism of gene regulation by microRNA and to define coding region in the entire genome”. San Martin Univ. , Argentina. Dec 18.
- 2013 “Using Ribosome profiling to gain insight into the mechanism of gene regulation by microRNA and to define coding region in the entire genome”. Biotech. Inst., INTA, Argentina. Dec 15<sup>th</sup>.
- 2013 “Identification of Non-Coding RNAs and small coding regions using Ribosome Profiling”. RNA Club, Yale University, USA. March 5.
- 2012 “Zebrafish and microRNA, what we can learn from the fish?”. Buenos Aires, Argentina June 7<sup>th</sup>.
- 2012 “Using Ribosome profiling to gain insight into the mechanism of gene regulation by microRNA”. 7<sup>th</sup> Mycosymposium on Small RNAs, Basel, Switzerland. May 21-23.
- 2012 “Using Ribosome profiling to gain insight into the mechanism of gene regulation by microRNA”. New England RNA Data club, Harvard University, USA. Apr 19.
- 2012 “Using Ribosome profiling to gain insight into the mechanism of gene regulation by microRNA”. PEW Annual Meeting, March 16-22.
- 2012 “Kinetic analysis of microRNA mediated regulation in vivo”. RNA Club, Yale Univ., USA. Jan 11<sup>st</sup>.
- 2011 “Kinetic analysis of microRNA mediated regulation in vivo”. Protein Synthesis and Translational Control. EMBL Heidelberg, Germany. Sept 7-11.
- 2008 “Epigenetic as phenotypic expression basis”. First LatinAmerican MDS and Myeloid Pathology Workshop. Hospital Italiano, Buenos Aires, Argentina.
- 2008 “Gene regulation”. Hematology department of the Hospital Italiano, Buenos Aires, Argentina.
- 2008 “Plant Virus infections, disease symptoms and microRNAs”. Advance Summer School on The Molecular and Cellular Basis of Infection, Cape Town, South Africa.
- 2007 “Spatial and temporal characterization of the transcriptional activity of miR164a promoter in plants”. SAIB, Mar del Plata, Argentina.

## **Reviewer for journals and grant**

Nature Communication, Genome Research; Bioinformatics; Gene; Molecular Plant-Microbe Interaction (MPMI); Journal of Agricultural Science and Technology; Journal of Ecology and the Natural Environment; Plant Physiology and Agencia Nacional de Promoción de Ciencia y Tecnología (Argentinian).

## **Mentoring**

- 2014 Co-mentor. Rotation student. Cassandra Kontur. Yale University.
- 2012-present Co-mentor. PhD student. Timothy G. Johnstone. Yale University.
- 2011 Director. Master. Sofia Villanueva. INTA/University of Buenos Aires (UBA), Argentina.