

## Curriculum Vitae Dr. Annalisa Izzo

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### Personal Data

Title	Dr
First name	Annalisa
Name	Izzo
Current position	Senior Postdoc
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### Qualifications and Career

Degree programme	Biology, 1993-2000, University of Insubria, Varese, Italy
Doctorate	2006, Prof. Peter Becker group, Dosage compensation in <i>D. melanogaster</i> , LMU, Munich, Germany
Further Stages	2006-2012 Postdoc, MPI Freiburg, Germany 2012-2016 Senior Postdoc IGBMC, Illkirch, France 2016-2018 Senior Postdoc, Helmholtz Zentrum Munich, Germany 2019-present Senior Postdoc, Institute of Anatomy and Cell Biology, Freiburg, Germany

### Supplementary Career Information

2000-2002 Fellow Student, University of Insubria Varese, Italy  
2018 Maternity Leave

### Engagement in the Research System

Mentoring students, PhD students and technicians.  
Grants Applications and Reviewing of papers.

### Scientific Results

Akol I, **Izzo A**, Gather F, Strack S, Heidrich S, Ó hAilín D, Villarreal A, Hacker C, Rauleac T, Bella C, Fischer A, Manke T, Vogel T (2023) Multimodal epigenetic changes and altered NEUROD1 chromatin binding in the mouse hippocampus underlie FOXP1 syndrome. *Proc Natl Acad Sci U S A*. 120(2):e2122467120. doi: 10.1073/pnas.2122467120.

Ferrarese R, **Izzo A**, Andrieux G, Lagies S, Bartmuss JP, Masilamani AP, Wasilenko A, Osti D, Faletti S, Schulzki R, Yuan S, Kling E, Ribecco V, Heiland DH, Tholen S, Prinz M, Pelicci G, Kammerer B, Boerries M, Carro MS (2022) ZBTB18 inhibits SREBP-dependent lipid synthesis by halting CTBPs and LSD1 activity in glioblastoma. *Life Sci Alliance*. 6(1):e202201400. doi: 10.26508/lsa.202201400.

Marques C, Unterkircher T, Kroon P, Oldrini B, **Izzo A**, Dramaretska Y, Ferrarese R, Kling E, Schnell O, Nelander S, Wagner EF, Bakiri L, Gargiulo G, Carro MS, Squatrito M (2021) NF1 regulates mesenchymal glioblastoma plasticity and aggressiveness through the AP-1 transcription factor FOSL1. *Elife*. 10:e64846. doi: 10.7554/eLife.64846.

Ferrari F, Arrigoni L, Franz H, **Izzo A**, Butenko L, Trompouki E, Vogel T\*, Manke T\* (2020) DOT1L-mediated murine neuronal differentiation associates with H3K79me2 accumulation and preserves SOX2-enhancer accessibility. *Nat Comm* 11:5200. \*shared correspondance

**Izzo A**, Ziegler-Birling C, Hill PWS, Brondani L, Hajkova P, Torres-Padilla ME, Schneider R (2017) Dynamic changes in H1 subtype composition during epigenetic reprogramming. *J Cell Biol.* 216(10):3017-3028. doi: 10.1083/jcb.201611012.

**Izzo A**, Kamieniarz-Gdula K, Ramírez F, Noureen N, Kind J, Manke T, van Steensel B, Schneider R (2013) The genomic landscape of the somatic linker histone subtypes H1.1 to H1.5 in human cells. *Cell Rep.* 3(6):2142-54. doi: 10.1016/j.celrep.2013.05.003.

Kamieniarz K, **Izzo A**, Dundr M, Tropberger P, Ozretic L, Kirfel J, Scheer E, Tropel P, Wisniewski JR, Tora L, Viville S, Buettner R, Schneider R (2012) A dual role of linker histone H1.4 Lys 34 acetylation in transcriptional activation. *Genes Dev.* 26(8):797-802. doi: 10.1101/gad.182014.111.

Öberg C, **Izzo A**, Schneider R, Wrangé Ö, Belikov S (2012) Linker histone subtypes differ in their effect on nucleosomal spacing in vivo. *J Mol Biol.* 419(3-4):183-97. doi: 10.1016/j.jmb.2012.03.007.

Waldmann T, **Izzo A**, Kamieniarz K, Richter F, Vogler C, Sarg B, Lindner H, Young NL, Mittler G, Garcia BA, Schneider R (2011) Methylation of H2AR29 is a novel repressive PRMT6 target. *Epigenetics Chromatin.* 4:11. doi: 10.1186/1756-8935-4-11.

Vogler C, Huber C, Waldmann T, Ettig R, Braun L, **Izzo A**, Daujat S, Chassignet I, Lopez-Contreras AJ, Fernandez-Capetillo O, Dundr M, Rippe K, Längst G, Schneider R (2010) Histone H2A C-terminus regulates chromatin dynamics, remodeling, and histone H1 binding. *PLoS Genet.* 6(12):e1001234. doi: 10.1371/journal.pgen.1001234.

Weiss T, Hergeth S, Zeissler U, **Izzo A**, Tropberger P, Zee BM, Dundr M, Garcia BA, Daujat S, Schneider R (2010) Histone H1 variant-specific lysine methylation by G9a/KMT1C and Glp1/KMT1D. *Epigenetics Chromatin.* 3(1):7. doi: 10.1186/1756-8935-3-7.

**Izzo A**, Regnard C, Morales V, Kremmer E, Becker PB (2008) Structure-function analysis of the RNA helicase maleless. *Nucleic Acids Res.* 36(3):950-62. doi: 10.1093/nar/gkm1108.

Morales V, Regnard C, **Izzo A**, Vetter I, Becker PB (2005) The MRG domain mediates the functional integration of MSL3 into the dosage compensation complex. *Mol Cell Biol.* 25(14):5947-54. doi: 10.1128/MCB.25.14.5947-5954.2005.

Curradi M, **Izzo A**, Badaracco G, Landsberger N (2002) Molecular mechanisms of gene silencing mediated by DNA methylation. *Mol Cell Biol.* 22(9):3157-73. doi: 10.1128/MCB.22.9.3157-3173.2002.

### **Academic Distinctions**

2018 Marie Skłodowska-Curie Actions Seal of Excellence

2013 EMBO Short-term fellowship

2001 Italian Association for Cancer Research (AIRC)