Tiziana Bonaldi, PhD

PERSONAL INFORMATION

Family name, first name: Bonaldi, Tiziana
Researcher unique identifier(s) 0000-0003-3556-1265 (ORCID ID)
Date of birth: 04 July 1973
Nationality: Italian
URL for web site: https://www.ieo.it/it/ricerca/People/Ricercatori/Bonaldi-Tiziana/

EDUCATION

2003 PhD award of the Open University of London, program held at DiBit, University Vita Salute, San Raffaele Hospital (HSR), Milan, IT (PhD supervisors: Internal Prof. M.E. Bianchi; external Prof. B. Turner (University of Birmingham, UK))
1997 B. Sc. (Laurea) at the University of Milan, Italy- *Summa cum Laudae*

CURRENT POSITIONS

2015 Tenured Group Leader at the Department of Experimental Oncology, European Institute of Oncology, IEO, IT
2014 MIUR (Italian Ministry of Schools, University and Research) Habilitation as associate Professor of Biochemistry, Molecular Biology and Applied Biology
2015 Member the Scientific Directors Committee of SIBBM (Italian Society of Biophysics and molecular Biology, http://www.sibbm.org/home_.php)
2008 Faculty member of European School of Molecular Medicine (SEMM) PhD Program, Milan

PREVIOUS POSITIONS

2008 - 2014 Junior Group Leader (tenure-track) at the Department of Experimental Oncology, European Institute of Oncology, IT
2006 - 2008 Post-doctoral fellow at Department of Proteomics and Signal Transduction the Max Plank Institute of Biochemistry, Martinsried, DE (Head: Prof. Matthias Mann)
2003 - 2005 EMBO Long-Term Post-doctoral fellow in the MS and Chromatin Composition Unit (Head: Prof. Axel Imhof) at Ludwig Maximilians University (LMU), Munich, DE
2002 – 2003 Visiting scientist in the Mass Spectrometry Group, at the European Molecular Biology Lab (EMBL), DE (Head: Dr. Matthias Wilm)

FELLOWSHIPS, AWARDS & HONOURS

2010 International Inner Wheel for Women 2010, for scientific career
2007 The Giovanni Armenise Harvard Foundation career development Award
2003 - 2005 EMBO Long-Term Post-Doctoral Fellowship at the LMU, DE
2000 EMBO Short-Term Fellowship. DiBit-San Raffaele Hospital, IT
1999 - 2003 1st ranked Doctoral Fellowship offered by University of Milan, IT

CAREER BREAKS

Five months Maternity leave, for the birth of my first child, Fernanda Stabilini
Five Months Maternity leave, for the birth of my second child, Pietro Stabilini

ACADEMIC ACTIVITY

Supervision of graduate students and postdoctoral fellows

2008 - 2017 As PI, I supervised 10 post-docs/ 4 PhD students/ 7 Master students (4 Italians) at the Department of Experimental Oncology–IEO, Milan-Biccoca University, University' degli Studi di Milano, University of Parma.
I have hosted in my Group 5 foreigner visiting student for short term period (1 to 4 months) for training in MS-proteomics.
2006 - 2008 As a postdoc, I supervised 1 PhD student in M. Mann's group at the Max Planck of Biochemistry in Martinsried, DE

Teaching activity

2015 Lecturer for monographic short course (4 hours) within the course of Clinical Biochemistry at the University of Piemonte Orientale, Novara, IT
2014 Lecturer at PhD course "Mass-spectrometry and Proteomics in cell biology research" at University of Padua (Padua)
2010 and 2017- Lecturer PhD course in "Mass Spectrometry-based proteomics and its applications in biology", NNF Center for Protein Research, Copenhagen
2010 Lecturer at the PhD course "Mass-spectrometry and Proteomics in cell biology research" at CNR Institute of Neuroscience, Milano
2010 Lecturer at the PhD course in Epigenetics at Dept of Genetics University of Milano
Since 2008 Assistant Professor and coordinator of the course "Proteomics" for the School of Molecular Medicine (SEMM);

Participation to Examination/Evaluation Board

2017 Istituto di Genetica Molecolare (IGM) of the CNR: Competition for scientist (ricercatore) appointment
2016 Biochemistry Department of the Technical University (TU) of Munich: Evaluation of candidate for the promotion to the position of "adjunct professor"
2016 Department of Veterinary of the University of Milano: Competition for post-doc position appointment
2016 Koc University (KU), Istanbul (TK): evaluation of candidate for promotion as Associate Professor

Lecturer and Trainer at International Conferences

2015 9th European Summer School on Advanced Proteomics, Brixen (IT)
2010 HUPO2010 Education and Training day; Sydney (AU)
2007 Practical Course "MS-based Proteomics and Quantitative Proteomics" at the Max Planck Institute of Biochemistry, Martinsried (DE) (2007);

EDITORIAL ACTIVITY

Editorial Board Member*:* Journal of Integrated –OMICS, Frontiers in Molecular and Cellular Oncology, Advances in Biology, Molecular and Cellular Oncology; International Journal of Proteomics, Proteomes.
Ad hoc peer-reviewer: Nature Protocols, *Biochimica and Biophysica Acta*, Proteomics, Journal of Proteome Research, Journal of Cell Science, Journal of Proteomics, Trends in Analytical Chemistry, Expert Reviews in Proteomics, Briefings in Functional Genomics, BMC Cancer, Trends in Biotechnology, Nature Communications, NAR, Journal of Molecular Cell Biology, Molecular and Cellular Proteomics, Oncogene, Scientific Reports, Epigenetic & Chromatin, Oncotarget, Plos One

Grant Reviewer: AICR, FEBS, Research Foundation Flanders, CRUK, Wellcome Trust, Agencie National Recherche (ANR), Cancer Research HK, ERC-stating Grant (external expert reviewer), German-Israeli (DKFZ-MOST) cooperation in cancer research.

SCIENTIFIC MEETINGS ORGANIZER and co-organizer

2017 SIBBM Annual Meeting, Milano: organizer and chair of Session

2016 2nd EMBO | FEBS Lecture Course on Nuclear Proteomics, Crete, GR| International Conference Proteomics & Bioinformatics, Rome- IT| 4th and 5th MS-proteomics Days, Milan Area, Italy| SIBBM meeting, Naples, IT

2015 International Conference Proteomics & Bioinformatics, Valencia, ES| 2nd and 3rd MS-Proteomics Day, Milano Area, IT

2014 1st MS-Proteomics Day, IFOM-IEO Campus, Milan, IT| EMBO- FEBS Lecture Course on Nuclear Proteomics, Kos Island, GR| International Conference Proteomics & Bioinformatics, Chicago, USA| EPIGEN-MiChroNetwork Chromatin Seminar, Dept. Experimental Oncology, IEO

2011 Epigenetic Symposium, IEO, Milan, IT

2009 Italian Proteomics Association 4th National Conference, Milano Bicocca University

INVITED PRESENTATIONS

2017: Budapest Breast Think Tank EACR Meeting, Budapest HUN (*invited speaker*)| Gordon Research Conference "Cancer Genetics & Epigenetics", Lucca IT (*invited speaker*)| 5th ICAP Conference, Lisbon POR (*invited speaker*)| EU-LIFE Scientific Workshop "Principles of Homeostasis", Berlin DE (*invited speaker*)| EMBO course "Non-coding RNAs", Heidelberg DE (*lecturer*)| HUPO2017, Dublin IRE (invited speaker)| SIB Annual Meeting, Caserta IT

2016: Belgian Proteomics Association (BePac) Meeting, Ghent- BE *(Keynote lecturer)*| FEBS- Nuclear Proteomics Summer School, Heraklion- GR *(Invited speaker and chairman)*| EMBL–WELLCOME GENOME CAMPUS CONFERENCE, Heidelberg- DE *(Invited speaker and chairman)*| Giovanni Armenise-Harvard 16th Symposium- Gubbio– IT *(Invited speaker)*| SIBBM Meeting- Naples- IT *(Organizer and chairman)*| EPIGEN-National Meeting, Rome- IT *(Invited speaker)*| Game of Epigenomics –Dubrovnik- CRO *(Invited speaker)*| Lecture Babraham Institute- Cambridge –UK *(Invited speaker)*| Lecture at the CRUK Beatson Institute- Glasgow-UK *(Invited speaker)*

2015: International Conference Proteomics & Bioinformatics, Valencia- SP (*speaker &chairman*)| Hallmarks of Cancer: focus on RNA, Paris- FR (*selected talk*)| GAHF 15th symposium, Challenges to Modern Medicine, Rome - IT (*invited speaker*)

2014: EPIGEN Annual Meeting, Rome- IT |2nd Epigenetic Symposium, Oslo- NO| SIBBM Trento-IT| FISV 2014, Pisa- IT (*invited speaker and chairman*)| 4D Cell Symposium, Utrecht (HOL)

2013: Proteomic Forum 2013, Berlin- DE| 7th ITPA Annual Congress, Padova- IT

2012: SIBBM 2012 Frontiers in molecular biology, Palermo- IT| 11th National Meeting of Medicinal Chemistry, Palermo- IT| 9th Siena Meeting from Genome to Proteome, IT| FISV Conference, Rome- IT

2011: II International Congress on Analytical Proteomics, Ourense -SP

2010: Marie-Curie Network INTEGER "Chromatin Proteomics" meeting, Munich –DE| Italian Proteomics Association 5th Annual National Conference, Firenze- IT| HUPO 9th Annual World Conference 2010, Sydney-AUS *(lecturer and invited speaker)*

2009: 11th International Congress on Amino Acids, Peptides and Proteins, Vienna- AT| Open Symposium: "20 years of Electrospray MS for large molecules", Munich- DE| Italian Proteomics Association 4th Annual National Conference, Milano- IT *(co-organizer)*

CITATION METRICS (WEB OF SCIENCE March 2018)

Number of publications: *63*

h-index: *27*

PEER-REVIEWED PUBLICATIONS (LAST 12 YEAR)

2018

1. Noberini R, Osti D, Miccolo C, Richichi C, Lupia M, Corleone G, Hong SP, Colombo P, Pollo B, Fornasari L, Pruneri G, Magnani L, Cavallaro U, Chiocca S, Minucci S, Pelicci G, **Bonaldi T**. Extensive and systematic rewiring of histone post-translational modifications in cancer model systems. Nucleic Acids Res. 2018 Mar 29. doi: 10.1093/nar/gky224.
2. Audano M, Pedretti S, Cermenati G, Brioschi E, Diaferia GR, Ghisletti S, Cuomo A, **Bonaldi T,** Salerno F, Mora M, Grigore L, Garlaschelli K, Baragetti A, Bonacina F, Catapano AL, Norata GD, Crestani M, Caruso D, Saez E, De Fabiani E, Mitro N. Zc3h10 is a novel mitochondrial regulator. EMBO Rep. 2018 Mar 5. pii: e45531. doi: 10.15252/embr.201745531.
3. Caprara G, Prosperini E, Piccolo V, Sigismondo G, Melacarne A, Cuomo A, Boothby M, Rescigno M, **Bonaldi T**, Natoli G. PARP14 Controls the Nuclear Accumulation of a Subset of Type I IFN-Inducible Proteins. J Immunol. 2018 Apr 1;200(7):2439-2454. doi: 10.4049/jimmunol.1701117.
4. Fellows R, Denizot J, Stellato C, Cuomo A, Jain P, Stoyanova E, Balázsi S, Hajnády Z, Liebert A, Kazakevych J, Blackburn H, Corrêa RO, Fachi JL, Sato FT, Ribeiro WR, Ferreira CM, Perée H, Spagnuolo M, Mattiuz R, Matolcsi C, Guedes J. Clark J, Veldhoen M, **Bonaldi T**, Vinolo MAR, Varga-Weisz P. Microbiota derived short chain fatty acids promote histone crotonylation in the colon through histone deacetylases. *Nat Commun*. 2018 Jan 9;9(1):105. DOI: 10.1038/s41467-017-02651-5.

2017

1. Hoffmann G, Samel-Pommerencke A, Weber J, Cuomo A**, Bonaldi T**, Ehrenhofer-Murray AE. A role for CENP-A/Cse4 phosphorylation on serine 33 in deposition at the centromere. *FEMS Yeast Res*. 2017 Dec 20. doi: 10.1093/femsyr/fox094.
2. Soldi M, Mari T, Nicosia L, Musiani D, Sigismondo G, Cuomo A, Pavesi G, **Bonaldi T.** Chromatin proteomics reveals novel combinatorial histone modification signatures that mark distinct subpopulations of macrophage enhancers *Nucleic Acids Research*, 2017 Dec 1;45(21):12195-12213. DOI: 10.1093/nar/gkx821
3. Chen YK, **Bonaldi T**, Cuomo A, Del Rosario JR, Hosfield DJ, Kanouni T, Kao S, Lai C, Lobo NA, Matuszkiewicz j, McGeehan A, O'Connell SM, Shi L, Stafford JA, Stansfield RK, Veal JM, Weiss MS, Yuen NY, and Wallace MB. Design of KDM4 Inhibitors with Antiproliferative Effects in Cancer Models. *ACS Med. Chem. Lett.*, **2017**, *8 (8)*, pp 869–874. DOI: 10.1021/acsmedchemlett.7b00220.
4. Noberini R, Longuespée R, Richichi C, Pruneri G, Kriegsmann M, Pelicci G., **Bonaldi T**. PAT-H-MS coupled with laser microdissection to study histone post-translational modifications in selected cell populations from pathology samples. *Clin Epigenetics*. 2017 Jul 11;9:69. doi: 10.1186/s13148-017-0369-8. eCollection **2017**. PubMed PMID: 28702092; PubMed Central PMCID: PMC5504751.
5. Caldieri G, Barbieri E, Nappo G, Raimondi A, Bonora M, Conte A, Verhoef LGGC, Confalonieri S, Malabarba MG, Bianchi F, Cuomo A, **Bonaldi T**, Martini E, Mazza D, Pinton P, Tacchetti C, Polo S, Di Fiore PP, Sigismund S. Reticulon 3-dependent ER-PM contact sites control EGFR nonclathrin endocytosis. *Science*. **2017** May 12;356(6338):617-

624. doi: 10.1126/science.aah6152. PubMed PMID: 28495747; PubMed Central PMCID: PMC5432029.

6. Curina A, Termanini A, Barozzi I, Prosperini E, Simonatto M, Polletti S, Silvola A, Soldi M, Austenaa L, **Bonaldi T**, Ghisletti S, Natoli G. High constitutive activity of a broad panel of housekeeping and tissue-specific cis-regulatory elements depends on a subset of ETS proteins. *Genes Dev*. 2017 Feb 15;31(4):399-412. doi: 10.1101/gad.293134.116. Epub **2017** Mar 8. PubMed PMID: 28275002; PubMed Central PMCID: PMC5358759.

2016

7. Noberini R, Pruneri G, Minucci S, **Bonaldi T**. Mass-spectrometry analysis of histone post-translational modifications in pathology tissue using the PAT-H-MS approach. *Data Brief*. **2016** Feb 16;7:188-94. doi: 10.1016/j.dib.2016.02.028. eCollection 2016 Jun. PubMed PMID: 27408908; PubMed Central PMCID: PMC4927966.
8. Soldi M, Cuomo A, **Bonaldi T**. Quantitative assessment of chemical artefacts produced by propionylation of histones prior to mass spectrometry analysis. *Proteomics*. **2016** Jul;16(14):1952-4. doi: 10.1002/pmic.201600173. PubMed PMID: 27373704
9. **Bonaldi T**, Mihailovich M. Spatiotemporal plasticity of miRNAs functions: The miR-17-92 case. *Mol Cell Oncol*. **2016** Apr 15;3(3):e1156216. doi: 10.1080/23723556.2016.1156216. eCollection 2016 May. PubMed PMID: 27314099; PubMed Central PMCID: PMC4909434
10. Pozzi C, Cuomo A, Spadoni I, Magni E, Silvola A, Conte A, Sigismund S, Ravenda PS, **Bonaldi T**, Zampino MG, Cancelliere C, Di Fiore PP, Bardelli A, Penna G, Rescigno M. The EGFR-specific antibody cetuximab combined with chemotherapy triggers immunogenic cell death. *Nat Med*. **2016** Jun;22(6):624-31. doi: 10.1038/nm.4078. Epub 2016 May 2. PubMed PMID: 27135741.
11. Mihailovich M, **Bonaldi T**. MYC/miR-17-92 interplay maintains B-lymphoma cell homeostasis. *Cell Cycle*. **2016**;15(8):1025-6. doi: 10.1080/15384101.2016.1157977. PubMed PMID: 27097369; PubMed Central PMCID: PMC4889254.
12. Mihailovich M, **Bonaldi T**. MS-analysis of SILAC-labeled MYC-driven B lymphoma cells overexpressing miR-17-19b. *Data Brief*. **2016** Feb 24;7:349-53. doi: 10.1016/j.dib.2016.02.031. eCollection 2016 Jun. PubMed PMID: 26977435; PubMed Central PMCID: PMC4781929.

2015

13. Noberini R, Sigismondo G, **Bonaldi T**. The contribution of mass spectrometry-based proteomics to understanding epigenetics. *Epigenomics*. **2015** Nov 25 [Epub ahead of print] PubMed PMID: 26606673.
14. Mihailovich M, Bremang M, Spadotto V, Musiani D, Vitale E, Varano G, Zambelli F, Mancuso FM, Cairns DA, Pavesi G, Casola S, **Bonaldi T**. miR-17-92 fine-tunes MYC expression and function to ensure optimal B cell lymphoma growth. *Nat Commun*. **2015** Nov 10;6:8725. doi: 10.1038/ncomms9725. PubMed PMID: 26555894.
15. Noberini R, Uggetti A, Pruneri G, Minucci S, **Bonaldi T**. Pathology tissue-quantitative mass spectrometry analysis to profile histone post-translational modification patterns in patient samples. *Mol Cell Proteomics*. **2015** Oct 13. pii: mcp.M115.054510. [Epub ahead of print] PubMed PMID: 26463340.
16. Setti M, Osti D, Richichi C, Ortensi B, Bene MD, Fornasari L, Beznoussenko G, Mironov A, Rappa G, Cuomo A, Faretta M, **Bonaldi T**, Lorico A, Pelicci G. Extracellular vesicle-mediated transfer of CLIC1 protein is a novel mechanism for the regulation of

glioblastoma growth. *Oncotarget*. **2015** Sep 30. [Epub ahead of print] PubMed PMID: 26429879.

17. Carissimi C, Laudadio I, Cipolletta E, Gioiosa S, Mihailovich M, **Bonaldi T**, Macino G, Fulci V. ARGONAUTE2 cooperates with SWI/SNF complex to determine nucleosome occupancy at human Transcription Start Sites. *Nucleic Acids Res*. **2015** Feb 18;43(3):1498-512. doi: 10.1093/nar/gku1387. Epub 2015 Jan 20. PubMed PMID: 25605800; PubMed Central PMCID: PMC4330357.

2014

18. Marchesi S, Montani F, Deflorian G, D'Antuono R, Bologna S, Mazzoccoli C, Cuomo A, **Bonaldi T**, Di Fiore PP and Nicassio F "DEPDC1B coordinates de-adhesion events and cell cycle progression at mitosis" *Developmental Cell*, **2014** Nov 24;31(4):420-33.doi: 10.1016/j.devcel.2014.09.009. Epub 2014 Nov 24. PubMed PMID: 25458010;PubMed Central PMCID: PMC4250264.
19. Soldi M, Cuomo A, **Bonaldi T**. Improved bottom-up strategy to efficiently separate hyper-modified histone peptides through ultra HPLC separation on a benchtop Orbitrap instrument. *Proteomics*. **2014** Jul 29. doi: 10.1002/pmic.201400075. [Epub ahead of print] PubMed PMID: 25073962.
20. Soldi M, **Bonaldi T**. The ChroP approach combines ChIP and mass spectrometry to dissect locus-specific proteomic landscapes of chromatin. *J Vis Exp*. **2014** Apr 11;(86). doi: 10.3791/51220. PubMed PMID: 24747196.
21. Colzani M, Noberini R, Romanenghi M, Colella G, Pasi M, Fancelli D, Varasi M, Minucci S, **Bonaldi T**. Quantitative chemical proteomics identifies novel targets of the anti-cancer multi-kinase inhibitor E-3810. *Mol Cell Proteomics*. **2014** Jun;13(6):1495-509. doi: 10.1074/mcp.M113.034173. Epub 2014 Apr 2. PubMed PMID: 24696502; PubMed Central PMCID: PMC4047469.
22. Soldi M, Bremang M, **Bonaldi T**. Biochemical systems approaches for the analysis of histone modification readout. *Biochim Biophys Acta*. **2014** Aug;1839(8):657-68. doi: 10.1016/j.bbagrm.2014.03.008. Epub 2014 Mar 27. PubMed PMID: 24681439.
23. Ferrari KJ, Scelfo A, Jammula S, Cuomo A, Barozzi I, Stützer A, Fischle W, **Bonaldi T**, Pasini D. Polycomb-dependent H3K27me1 and H3K27me2 regulate active transcription and enhancer fidelity. *Mol Cell*. **2014** Jan 9;53(1):49-62. doi: 10.1016/j.molcel.2013.10.030. Epub 2013 Nov 27. PubMed PMID: 24289921.

2013

24. Sigismund S, Algisi V, Nappo G, Conte A, Pascolutti R, Cuomo A, **Bonaldi T**, Argenzio E, Verhoef LG, Maspero E, Bianchi F, Capuani F, Ciliberto A, Polo S, Di Fiore PP. Threshold-controlled ubiquitination of the EGFR directs receptor fate. *EMBO J*. **2013** Jul 31;32(15):2140-57. doi: 10.1038/emboj.2013.149. Epub 2013 Jun 25. PubMed PMID: 23799367; PubMed Central PMCID: PMC3730230.
25. Bremang M, Cuomo A, Agresta AM, Stugiewicz M, Spadotto V, **Bonaldi T**. Mass spectrometry-based identification and characterisation of lysine and arginine methylation in the human proteome. *Mol Biosyst*. **2013** Sep;9(9):2231-47. doi:10.1039/c3mb00009e. PubMed PMID: 23748837.
26. Fragola G, Germain PL, Laise P, Cuomo A, Blasimme A, Gross F, Signaroldi E, Bucci G, Sommer C, Pruneri G, Mazzarol G, **Bonaldi T**, Mostoslavsky G, Casola S, Testa G. Cell reprogramming requires silencing of a core subset of polycomb targets. *PLoS Genet*. **2013**;9(2):e1003292. doi: 10.1371/journal.pgen.1003292. Epub 2013 Feb 28. PubMed PMID: 23468641; PubMed Central PMCID: PMC3585017.

27. Soldi M, Cuomo A, Bremang M, **Bonaldi T**. Mass spectrometry-based proteomicsfor the analysis of chromatin structure and dynamics. *Int J Mol Sci*. **2013** Mar 6;14(3):5402-31. doi: 10.3390/ijms14035402. PubMed PMID: 23466885; PubMed Central PMCID: PMC3634404.
28. Greiner D, **Bonaldi T**, Eskeland R, Roemer E, Imhof A. Reply to "Chaetocin is a nonspecific inhibitor of histone lysine methyltransferases". *Nat Chem Biol*. **2013** Mar;9(3):137. doi: 10.1038/nchembio.1188. PubMed PMID: 23416388.
29. Vella P, Scelfo A, Jammula S, Chiacchiera F, Williams K, Cuomo A, Roberto A, Christensen J, **Bonaldi T**, Helin K, Pasini D. Tet proteins connect the O-linked N-acetylglucosamine transferase Ogt to chromatin in embryonic stem cells. *Mol Cell*. **2013** Feb 21;49(4):645-56. doi: 10.1016/j.molcel.2012.12.019. Epub 2013 Jan 24. PubMed PMID: 23352454.
30. Soldi M, **Bonaldi T**. The proteomic investigation of chromatin functional domains reveals novel synergisms among distinct heterochromatin components. *Mol Cell Proteomics*. **2013** Mar;12(3):764-80. doi: 10.1074/mcp.M112.024307. Epub 2013 Jan 14. PubMed PMID: 23319141; PubMed Central PMCID: PMC3591667.

2012

31. Samel A, Cuomo A, **Bonaldi T**, Ehrenhofer-Murray AE. Methylation of CenH3arginine 37 regulates kinetochore integrity and chromosome segregation. *Proc Natl Acad Sci U S A*. **2012** Jun 5;109(23):9029-34. doi: 10.1073/pnas.1120968109. Epub 2012 May 21. PubMed PMID: 22615363; PubMed Central PMCID: PMC3384136.

2011

32. Vella P, Barozzi I, Cuomo A, **Bonaldi T**, Pasini D. Yin Yang 1 extends the Myc-related transcription factors network in embryonic stem cells. *Nucleic Acids Res*. **2012** Apr;40(8):3403-18. doi: 10.1093/nar/gkr1290. Epub 2011 Dec 30. PubMed PMID: 22210892; PubMed Central PMCID: PMC3333890.
33. Celona B, Weiner A, Di Felice F, Mancuso FM, Cesarini E, Rossi RL, Gregory L, Baban D, Rossetti G, Grianti P, Pagani M, **Bonaldi T**, Ragoussis J, Friedman N, Camilloni G, Bianchi ME, Agresti A. Substantial histone reduction modulates genomewide nucleosomal occupancy and global transcriptional output. *PLoS Biol*. **2011** Jun;9(6):e1001086. doi: 10.1371/journal.pbio.1001086. Epub 2011 Jun 28. PubMed PMID: 21738444; PubMed Central PMCID: PMC3125158.
34. Cuomo A, Moretti S, Minucci S, **Bonaldi T**. SILAC-based proteomic analysis to dissect the "histone modification signature" of human breast cancer cells. *Amino Acids*. **2011** Jul;41(2):387-99. doi: 10.1007/s00726-010-0668-2. Epub 2010 Jul 9. PubMed PMID: 20617350.

2009

35. Loyola A, Tagami H, **Bonaldi T**, Roche D, Quivy JP, Imhof A, Nakatani Y, Dent SY, Almouzni G. The HP1alpha-CAF1-SetDB1-containing complex provides H3K9me1 for Suv39-mediated K9me3 in pericentric heterochromatin. *EMBO Rep*. **2009** Jul;10(7):769-75. doi: 10.1038/embor.2009.90. Epub 2009 Jun 5. PubMed PMID:19498464; PubMed Central PMCID: PMC2727428.
36. Hilger M, **Bonaldi T**, Gnad F, Mann M. Systems-wide analysis of a phosphatase knock-down by quantitative proteomics and phosphoproteomics. *Mol Cell Proteomics*. **2009** Aug;8(8):1908-20. doi: 10.1074/mcp.M800559-MCP200. Epub 2009 May 9. PubMed PMID: 19429919; PubMed Central PMCID: PMC2722773.

2008

37. **Bonaldi T**, Straub T, Cox J, Kumar C, Becker PB, Mann M. Combined use of RNAi and quantitative proteomics to study gene function in Drosophila. *Mol Cell*. **2008** Sep 5;31(5):762-72. doi: 10.1016/j.molcel.2008.07.018. PubMed PMID: 18775334.
38. Bachi A, **Bonaldi T**. Quantitative proteomics as a new piece of the systems biology puzzle. *J Proteomics*. **2008** Aug 21;71(3):357-67. doi: 10.1016/j.jprot.2008.07.001. Epub 2008 Jul 9. Review. PubMed PMID: 18640294.
39. Nielsen ML, Vermeulen M, **Bonaldi T**, Cox J, Moroder L, Mann M. Iodoacetamide-induced artifact mimics ubiquitination in mass spectrometry. *Nat Methods*. **2008** Jun;5(6):459-60. doi: 10.1038/nmeth0608-459. PubMed PMID: 18511913.

2007

40. Ferreira R, Eberharter A, **Bonaldi T**, Chioda M, Imhof A, Becker PB. Site-specific acetylation of ISWI by GCN5. *BMC Mol Biol*. **2007** Aug 30;8:73. PubMed PMID: 17760996; PubMed Central PMCID: PMC2045673.

2006

41. Loyola A*, **Bonaldi T***, Roche D, Imhof A, Almouzni G. PTMs on H3 variants before chromatin assembly potentiate their final epigenetic state. *Mol Cell*. **2006** Oct 20;24(2):309-16. PubMed PMID: 17052464. **co-first*