

Curriculum vitae

Name and Surname

Pamela Bielli

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Education

2004

Professional Practice Exam for Biologist

2002

Ph.D. in Biology, University of Rome “Roma Tre”, Rome, Italy

1998

Bachelor of Science (Bs) (110/110 cum laude), University of Rome “Roma Tre”, Rome, Italy

Positions

2019-to date

Associate Professor at Department of Biomedicine and Prevention, Chair of Human Anatomy, Faculty of Medicine and Surgery, University of Rome “Tor Vergata”, Rome, Italy;

2016-2019

Temporary Researcher (RTD-B) at Department of Biomedicine and Prevention, Chair of Human Anatomy, Faculty of Medicine and Surgery, University of Rome “Tor Vergata”, Rome, Italy;

2012-2016

Researcher at the IRCCS Fondazione Santa Lucia, Rome, Italy;

2007-2011

Temporary Research Fellows at Department of Public Health and Cell Biology, University of Rome “Tor Vergata”, Rome, Italy,

2006-2007

Research Fellow at the Pediatric Hospital “Bambino Gesù” Rome, Italy;

2003-2005

Institut Pasteur-Cenci Bolognetti Foundation Research Fellow at Department of Cell and Developmental Biology, University of Rome ‘La Sapienza’, Rome, Italy;

2002-2003

Consiglio Nazionale delle Ricerche Temporary Fellow for Research Abroad at the Institute of Microbiology and Genetic, “Vienna Biocenter”, University of Vienna, Vienna, Austria;

2000-2002

Research contracts at the Institute of Microbiology and Genetic, “Vienna Biocenter”, University of Vienna, Vienna, Austria;

1998-2001

Ph.D. Student at University of Rome, “Roma Tre”, Rome, Italy.

Grant

2014

“Role of Alternative Polyadenylation in prostate cancer” Italian Ministry of Health “Giovani Ricercatori- Ricerca Finalizzata 2011-2012” (GR-2011-02348423).

Teaching experience

2016-to date

Human Anatomy, University of Rome “Tor Vergata”, Rome, Italy

2002

Tutor in Molecular and Pathological Genetic, Institute of Microbiology and Genetic, Vienna Biocenter”, University of Vienna, Vienna, Austria.

2001

Tutor in Experimental Genetic III (Molecular Genetic), Institute of Microbiology and Genetic, Vienna Biocenter”, University of Vienna, Vienna, Austria.

Publications

1. Barchi M, Bielli P, Dolci S, Rossi P, Grimaldi P. (2021) Non-Coding RNAs and Splicing Activity in Testicular Germ Cell Tumors. *Life (Basel)* 11(8):736.
2. Naro C, Bielli P, Sette C. (2021) Oncogenic dysregulation of pre-mRNA processing by protein kinases: challenges and therapeutic opportunities. *FEBS J.* 288(21):6250-6272.
3. Caggiano C, Guida E, Todaro F, Bielli P, Mori M, Ghirga F, Quaglio D, Botta B, Moretti F, Grimaldi P, Rossi P, Jannini EA, Barchi M, Dolci S. (2020) Sempervirine inhibits RNA polymerase I transcription independently from p53 in tumor cells. *Cell Death Discov.* 28; 6(1):111.
4. Cesari E, Loiarro M, Naro C, Pieraccioli M, Farini D, Pellegrini L, Pagliarini V, Bielli P, Sette C.

- (2020) Combinatorial control of Spo11 alternative splicing by modulation of RNA polymerase II dynamics and splicing factor recruitment during meiosis. *Cell Death Dis.* Apr 17;11(4):240.
5. Pagliarini V, Jolly A, Bielli P, Di Rosa V, De la Grange P, Sette C. (2020) Sam68 binds Alu-rich introns in SMN and promotes pre-mRNA circularization. *Nucleic Acids Res.* 48(2):633-645.
 6. Bielli P, Pagliarini V, Pieraccioli M, Caggiano C, Sette C. (2019) Splicing Dysregulation as Oncogenic Driver and Passenger Factor in Brain Tumors. *Cells.* Dec 18;9(1).
 7. Caggiano C, Pieraccioli M, Panzeri V, Sette C*, Bielli P*. (2019) c-MYC empowers transcription and productive splicing of the oncogenic splicing factor Sam68 in cancer. *Nucleic Acids Res.* 47(12):6160-6171.
 8. Naro C, Pellegrini L, Jolly A, Farini D, Cesari E, Bielli P, de la Grange P, Sette C. (2019) Functional Interaction between U1snRNP and Sam68 Insures Proper 3' End Pre-mRNA Processing during Germ Cell Differentiation. *Cell Rep.* 26(11):2929-2941.
 9. Bielli P, Di Stasi SM, Sette C. (2018) The emerging role of PTBP1 in human cancer: novel prognostic factor in non-muscle invasive bladder cancer. *Transl Androl Urol.* 7(Suppl 6):S765-S767.
 10. Bielli P, Panzeri V, Lattanzio R, Mutascio S, Pieraccioli M, Volpe E, Pagliarulo V, Piantelli M, Giannantoni A, Di Stasi SM, Sette C. The splicing factor PTBP1 promotes expression of oncogenic splice variants and predicts poor prognosis in patients with non-muscle invasive bladder cancer. *Clinical Cancer Res.* 4:5422-5432.
 11. Pascarella A, Ferrandino G, Credendino SC, Moccia C, D'Angelo F, Miranda B, D'Ambrosio C, Bielli P, Spadaro O, Ceccarelli M, Scaloni A, Sette C, De Felice M, De Vita G, Amendola E (2018) DNAJC17 is localized in nuclear speckles and interacts with splicing machinery components. *Sci Rep.* 8:7794.
 12. Passacantilli I, Panzeri V, Bielli P, Farini D, Piloizzi E, Fave GD, Capurso G, Sette C (2017) Alternative polyadenylation of ZEB1 promotes its translation during genotoxic stress in pancreatic cancer cells. *Cell Death Dis.* 8:e3168.
 13. Bielli P, Sette C (2017) Analysis of in vivo Interaction between RNA Binding Proteins and Their RNA Targets by UV Cross-linking and Immunoprecipitation (CLIP) Method. *Bio Protocol.* 7(10).
 14. Naro C, Jolly A, Di Persio S, Bielli P, Setterblad N, Alberdi AJ, Vicini E, Geremia R, De la Grange P, Sette C (2017) An Orchestrated Intron Retention Program in Meiosis Controls Timely Usage of Transcripts during Germ Cell Differentiation. *Developmental Cell.*; 41(1):82-93.e4
 15. Nazio F, Carinci M, Valacca C, Bielli P, Strappazzon F, Antonioli M, Ciccocanti F, Rodolfo C, Campello S, Fimia GM, Sette C, Bonaldo P, and Cecconi F (2016) Fine-tuning of ULK1 mRNA and protein levels is required for autophagy oscillation. *J Cell Biol* 215(6): 841-856.
 16. La Rosa P, Bielli P, Compagnucci C, Cesari E, Volpe E, Farioli Vecchioli S, and Sette C (2016) Sam68 promotes self-renewal and glycolytic metabolism in mouse neural progenitor cells by modulating Aldh1a3 pre-mRNA 3'-end processing. *Elife*, pii: e20750. doi: 10.7554/eLife.20750.
 17. Annibalini G*, Bielli P*, De Santi M, Agostini D, Guescini M, Sisti D, Contarelli S, Brandi G, Villarini A, Stocchi V, Sette C and Barbieri E (2016) MIR retroposon exonization promotes evolutionary variability and generates species-specific expression of IGF-1 splice variants. *Biochim Biophys Acta* 1859(5): 757-768. *co-first author.
 18. Calabretta S, Bielli P, Passacantilli I, Piloizzi E, Fendrich V, Capurso G, Fave GD Sette C (2015) Modulation of PKM alternative splicing by PTBP1 promotes gemcitabine resistance in pancreatic cancer cells. *Oncogene* 35: 2031-2039.
 19. Naro C, Bielli P, Pagliarini V and Sette C (2015) The interplay between DNA damage response and RNA processing: the unexpected role of splicing factors as gatekeepers of genome stability. *Front Genet* 6:142.
 20. Bielli P, Bordi M, Biasio VD and Sette C (2014) Regulation of BCL-X splicing reveals a role for the polypyrimidine tract binding protein (PTBP1/hnRNP I) in alternative 5' splice site selection. *Nucleic Acids Res* 42(19): 12070-12081.
 21. Bielli P, Busà R, Di Stasi SM, Munoz MJ, Botti F, Kornblitt AR and Sette C (2014) The transcriptional factor FBI-1 regulates SAM68-mediated BCL-X alternative splicing and apoptosis. *EMBO Reports* 5(4): 419-427.
 22. Cappellari M, Bielli P, Paronetto MP, Ciccocanti F, Fimia GM, Saarikettu J, Silvennoinen O and Sette C (2014) The transcriptional co-activator SND1 is a novel regulator of alternative splicing in prostate cancer cells. *Oncogene* 33: 3794-3802.

23. Nazio F, Strappazzon F, Antonioli M, Bielli P, Cianfanelli V, Bordi M, Gretzmeier C, Dengjel J, Piacentini M, Fimia GM and Cecconi F (2013) mTOR inhibits autophagy by controlling ULK1 ubiquitylation, self-association and function through AMBRA1 and TRAF6. *Nat Cell Biol* 15(4): 406-416.
24. Fausti F, Di Agostino S, Cioce M, Bielli P, Sette C, Pandolfi PP, Oren M, Sudol M, Strano S and Blandino G (2013) ATM kinase enables the functional axis of YAP, PML and p53 to ameliorate loss of Werner protein-mediated oncogenic senescence. *Cell Death Differ* 20(11): 1498-1509.
25. Bielli P, Busà R, Paronetto MP and Sette C (2011) The RNA binding protein Sam68 is a multifunctional player in human cancer. *Endocr Relat Cancer* 18(4): R91-R102.
26. Pedrotti S, Bielli P, Paronetto MP, Ciccocanti F, Fimia GMR, Stamm S, Manley JL and Sette C (2010) The splicing regulator Sam68 binds to a novel exonic splicing silencer and functions in SMN2 alternative splicing in spinal muscular atrophy. *Embo J* 29: 1235-1247.
27. Bianchini A, Loiarro M, Bielli P, Busà R, Paronetto MP, Loreni F, Geremia R and Sette C (2008) Phosphorylation of eIF4E by MNKs supports protein synthesis, cell cycle progression and proliferation in prostate cancer cells. *Carcinogenesis* 29(12): 2279-2288.
28. Casavola EC, Catucci A, Bielli P, Di Pentima A, Porcu G, Pennestri M, Cicero DO and Ragnini-Wilson A (2008) Ypt32p and Mlc1p bind within the vesicle binding region of the class V myosin Myo2p globular tail domain. *Mol Microbiol* 67(5): 1051-1066.
29. Bielli P., Casavola EC, Biroccio A, Urbani A and Ragnini-Wilson A (2006) GTP driver myosin light chain 1 interaction with the class V myosin Myo2 IQ motifs via a Sec2 RabGEF-mediated pathway. *Mol Microbiol* 59:1576-1590.
30. Melino S., Pennestri M., Santoprete A., Bielli P., Paci M., Ragnini-Wilson A. and Cicero DO (2005) Letter to the Editor: Assignment of the 1H, 13C and 15N resonances of Mlc1p from *Saccharomyces cerevisiae*. *Journal of Biomolecular NMR* 31(4): 367-368.
31. Wagner W, Bielli P, Wacha S and Ragnini-Wilson A (2002) Mlc1p promotes septum closure during cytokinesis via the IQ motifs of the vesicle motor Myo2. *Embo J* 23: 6397-6408.
32. Bielli P and Calabrese L (2002) Structure to function relationships in ceruloplasmin: a "moonlighting" protein. *Cell Mol Life Sci* 59: 1413-1427.
33. Bielli P, Bellenchi GC and Calabrese L (2001) Site-directed mutagenesis of human ceruloplasmin: production of a proteolytically stable protein and structure-activity relationships of type 1 sites. *J Biol Chem* 276: 2678-2685.
34. Bonaccorsi di Patti MC, Bellenchi GC, Bielli P and Calabrese L (1999) Release of highly active Fet3 from membranes of the yeast *Pichia pastoris* by limited proteolysis. *Arch Biochem Biophys* 372: 295-299.

Congress

1. c-Myc empowers transcription and productive splicing of the oncogenic splicing factor Sam68 in cancer. Pieraccioli M, Caggiano C, Sette C, Bielli P. RNA and genome maintenance: Cooperation and conflict management", October 10 to October 13, Mainz, Germany, 2018.
2. c-Myc empowers transcription and productive splicing of the oncogenic splicing factor Sam68 in cancer. Pieraccioli M, Caggiano C, Sette C, Bielli P. EMBO|EMBL Symposium: The Complex Life of RNA, October 3 to October 6, 2018, Heidelberg, Germany, 2018.
3. Regulation of Spo11 gene Alternative Splicing. Bielli P, Cesari E, Loiarro M and Sette C. 21st Annual Meeting of the RNA Society, RNA 2016, in Kyoto, Japan, June 28 to July 2, 2016
4. PTB regulates the alternative splicing of the apoptotic gene BCL-X. Bielli P, Bordi M and Sette C. 19th Annual Meeting of the RNA Society, in Quebec City, Canada, June 3 to June 8, 2014.
5. MIR retroposon exonization in IGF-1 gene can explain the IGF-1Eb and IGF-1Ec/Mechano Growth Factor isoform production in mammals and their species-specific pattern of expression. Annibalini G, Barbieri E, Bielli P, Agostini D, De Santi M, Mancinelli R, Fulle S, Brandi G, Sette C, Stocchi V. XI IIM Meeting Eur J Transl Myol. 2-5 October, 2014.
6. PTB regulates the alternative splicing of the apoptotic mediator BCL-X. Bielli P, Bordi M and Sette C. The 18th annual meeting of the RNA Society Davos, Switzerland June 11 to 16, 2013.
7. The proto-oncogene FBI-1 modulates alternative splicing and apoptosis through its interaction with Sam68. Bielli P, Busà R, Botti F, Di Stasi S and Sette C. 2nd Intl EURASNET Conference on Alternative Splicing Granada, Spain, 2011.

8. The proto-oncogene FBI-1 regulates alternative splicing of BCL-X and apoptosis through its interaction with Sam68. Bielli P, Busà R, Botti F, Verri C, Di Stasi S and Sette C. Gordon Research Conference: Post-Transcriptional Gene Regulation. Salve Regina University in Newport RI United States July 18-23, 2010.
9. Class V myosin Myo2 and Myosin light chain 1 interaction is stimulated by the activation of the Rab/Ypt32. Caroli Casavola E, Bielli P., Catucci A. and Ragnini-Wilson A. EMBO workshop on Cell membrane Organization and Dynamics, Bilbao (Spain), June 3-7, 2006.
10. Myosin V-mediated post-Golgi cargo delivery at the plasma membrane in yeast cells. Bielli P, Catucci A, and Ragnini-Wilson A. ABCD-Pontignano, Organelle biogenesis and membrane traffic, Certosa di Pontignano, Siena, Italy, 21-22 April, 2006.
11. Myosin light chain 1 binding to the class V myosin Myo2p IQ motifs controls secretory vesicle-motor release during cytokinesis. Bielli P, Caroli Casavola E, Cuoco V, and Ragnini Wilson A. ELSO meeting, Nice, France, 2004.
12. Characterization of the organelle anchoring machinery acting in human genetic disorders based on defects in organelle motility using a yeast model system. Bielli P, Capo C, Maresca V, Picaro M, Ragnini-Wilson A. Telethon Scientific Convention, 2003.
13. The regulated interaction of the myosin light chain 1 with the IQ motifs of the class V myosin Myo2p allows vesicle targeting to the center of the septum during cytokinesis in yeast cells. Ragnini A, Bielli P, and Wagner W. ELSO meeting, Dresda, Germany, 2003.
14. Vesicle targeting to the centre of the mother-bud neck during cytokinesis requires Mlc1p, a calmodulin-related protein that associates with the Sec4p/Myo2p complex on vesicle membranes. Wagner W, Bielli P, and Ragnini-Wilson A. Second international meeting of Max-Planck Institut, Goettingen, Germany, 2002.
15. Molecular machinery required for actomyosin ring contraction and septum closure in *Saccharomyces cerevisiae*. Wagner W, Bielli P, and Ragnini-Wilson A. ELSO meeting in Nice, France, 2002.
16. Involvement of Rab/Ypt proteins and the myosin light chain Mlc1p in the regulation of polarised vesicle transport in *Saccharomyces cerevisiae*. Wagner W, Bielli P, and Ragnini-Wilson A. CNRS/Jacques Monod/EMBO Conference: Microfilament function and regulation in cell polarity in Presqu'île de Gens, France, 2001.
17. Membrane trafficking and cytokinesis in budding yeast: Mlc1p, a myosin light chain essential for actomyosin ring contraction and vesicle polarization toward the neck. Wagner W, Wacha S, Bielli P, and Ragnini-Wilson A. The 8th Vienna Center Recess, 2001.
18. Isolation of membrane-bound and soluble FET3 proteins with high ferroxidase activity from the yeast *Pichia pastoris*. Bonaccorsi di Patti MC, Bellenchi GC, Bielli P and Calabrese L. XIV Congresso Nazionale "Proteine 99" University of Rome "Tor Vergata" 1999.

Oral Communication

1. The protooncogene FBI-1 regulates alternative splicing of BCL-X and apoptosis through its interaction with Sam68 in prostate cancer cell. Cold Spring Harbor Laboratory. EUKARYOTIC mRNA PROCESSING. August 18- 22, 2009