

CURRICULUM VITAE

Name and Surname: Lina Sabatino

PERSONAL INFORMATION

Date and place of birth: 17 marzo 1965, Benevento

Nationality: Italian

Training Delivery: Department of Biological and Environmental Sciences, University of Sannio Benevento,
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TITLES FOR STUDY

1992 Degree in Biological Sciences from the University of Naples Federico II.

2000 Specialization in Biochemistry and Clinical Chemistry from the University of Naples Federico II vot
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2008 Ph.D. in Earth Science and Life, from the University degli Studi del Sannio Benevento.

CURRENT POSITION

Researcher of Molecular Biology Faculty of Science, University of Sannio Benevento.

SCIENTIFIC AND PROFESSIONAL EXPERIENCE

1992/93 Apprenticeship practical post-graduate at the Laboratory of Clinical Pathology of the Hospital
G. Rummo Benevento.

1993 Qualified professional of the National Order of Biologists.

1994/96 Frequency, as a voluntary Biologist, Laboratory of Clinical Pathology of the Hospital G. R
Benevento.

1998 Contract of Scientific Collaboration at the Department of Biochemistry and Medical Biotechnologies,
University of Naples "Federico II".



2000/02 Owner of a two-year research grant in science disciplinary BIO/11 Molecular Biology at the University of Sannio.

2003/05 Owner of a two-year research grant in science disciplinary BIO/11 Molecular Biology at the University of Sannio.

2004/09 Contract with the ADISU (Corporate Law University Study) of Benevento aimed to control the preparation and delivery of meals at the University of Benevento.

COURSES

1992/93 Course in theoretical and practical Hematology at the Second University of Naples.

1994/95 Course in haemorrhagic diseases in Age Pediatrica II at the University of Naples.

1997 Course in Reproductive Physiopathology organized by the Naples Biologists.

TEACHING

2000 Diploma in Education in secondary school class competition A060

2000/02 Mentoring activities in 2000 under Article. 13 L.341/90; at the Faculty of Sciences MM.FF.NN, University of Sannio Benevento;

2001/05 Integrative teaching activities in teaching of Molecular Biology I for Masters of Science in Biotechnology and Biological Sciences, mentoring activities and assistance to the conduct of experimental degree thesis in Molecular Biology for students of Masters of Science Biotechnology and Biological Sciences.

2003 Activities teaching trainee IFTS designed to train "Tech for the production, quality and materials management in pharmaceutical companies" supported by Regione Campania and by MIUR of which the University of Sannio has been subject actuator.

2004 Teaching activity in a training course designed to train IFTS of "Expert in environmentally friendly production and quality in the livestock sector" financed by Regione Campania and by MIUR of which the University of Sannio has been subject actuator.

2007/2008 Teacher, course of genetic engineering techniques Degree Course in Biology and Biotechnology, University of Sannio.

2007/2008 Teacher of the course "Integrated Biotechnology Laboratory".

2008 Professor of the course "Methods applied to Molecular Biology and Genetics" at the Science in Biology-Molecular.

SCIENTIFIC INTERESTS

Study of Epigenetic mechanisms in colorectal cancer.



The role of miRNAs in CRC.

Study of the role of nuclear receptors activated by the peroxisome proliferators (PPAR) in several cell metabolism in normal and pathological;

The role of PPAR in sporadic forms of colorectal cancer

Analysis of gene expression under conditions of oxidative stress;

Analysis of possible interactions and/or interference between the signal transduction pathways regulated by receptor activated by the peroxisome proliferators, PPARs, and pathways regulated by NfκB.

PUBLICATIONS

1. Mazzoccoli G, Colangelo T, Panza A, Rubino R, De Cata A, Tiberio C, Valvano MR, Paziienza V, Merla G, Augello B, Trombetta D, Storlazzi CT, Macchia G, Gentile A, Tavano F, Vinciguerra M, Bisceglia G, Rosato V, Colantuoni V, Sabatino L, Piepoli A. (2016). Deregulated expression of cryptochrome genes in human colorectal cancer.. *MOLECULAR CANCER*, vol. 15, ISSN: 1476-4598, doi: 10.1186/s12943-016-0492-8
2. Colangelo T, Polcaro G, Ziccardi P, Pucci B, Muccillo L, Galgani M, Fucci A, Milone MR, Budillon A, Santopaolo M, Votino C, Pancione M, Piepoli A, Mazzoccoli G, Binaschi M, Bigioni M, Maggi CA, Fassan M9, Laudanna C, Matarese G, Sabatino L, Colantuoni V. (2016). Proteomic screening identifies calreticulin as a miR-27a direct target repressing MHC class I cell surface exposure in colorectal cancer. *CELL DEATH & DISEASE*, vol. 7, ISSN: 2041-4889, doi: ; doi:10.1038/cddis.2016.28
3. Colangelo T, Polcaro G, Ziccardi P, Muccillo L, Galgani M, Pucci B, Rita Milone M, Budillon A, Santopaolo M, Mazzoccoli G, Matarese G, Sabatino L, Colantuoni V. (2016). The miR-27a-calreticulin axis affects drug-induced immunogenic cell death in human colorectal cancer cells.. *CELL DEATH & DISEASE*, vol. 7, ISSN: 2041-4889, doi: 10.1038/cddis.2016.29.
4. Lapi D, Di Maro M, Mastantuono T, Battiloro L, Sabatino L, Muscariello E, Colantuoni A. (2015). Effects of oleuropein and pinoresinol on microvascular damage induced by hypoperfusion and reperfusion in rat pial circulation . *MICROCIRCULATION*, vol. 22, p. 79-90, ISSN: 1073-9688, doi: 10.1111/micc.12175
5. Mastantuono T, Battiloro L, Sabatino L, Chiurazzi M, Di Maro M, Muscariello E, Colantuoni A, Lapi D (2015). Effects of Citrus Flavonoids Against Microvascular Damage Induced by Hypoperfusion and Reperfusion in Rat Pial Circulation. *MICROCIRCULATION*, vol. 22, p. 378-390, ISSN: 1073-9688, doi: 10.1111/micc.12207.
6. Circelli L1, Ramundo V, Marotta V, Sciammarella C, Marciello F, Del Prete M, Sabatino L, Pasquali D, Izzo F, Scala S, Colao A, Faggiano A3, Colantuoni V (2015). Prognostic role of the CDKN1B V109G polymorphism in multiple endocrine neoplasia type 1. *JOURNAL OF CELLULAR AND MOLECULAR MEDICINE*, vol. 19, p. 735-1741, ISSN: 1582-1838, doi: 10.1111/jcmm.12552
7. Ferrara G1, Pancione M, Votino C, Quagliano P, Tomasini C, Santucci M, Pimpinelli N, Cusano F, Sabatino L, Colantuoni V. (2014). A specific DNA methylation profile correlates with a high risk of disease progression in stage I classical (Alibert-Bazin type) mycosis fungoides. *BRITISH JOURNAL OF DERMATOLOGY*, vol. 170, ISSN: 0007-0963
8. Lapi D, Di Maro M, Mastantuono T, Battiloro L, Sabatino L, Muscariello E, Colantuoni A. (2014). Effects of Oleuropein and Pinoresinol on Microvascular Damage Induced by Hypoperfusion and Reperfusion in Rat Pial Circulation. *MICROCIRCULATION*, vol. 22, ISSN: 1073-9688, doi: doi: 10.1111/micc.12175

9. Sabatino L, Pancione M, Votino C, Colangelo T, Lupo A, Novellino E, Lavecchia A, Colantuoni V (2014). Emerging role of the β -catenin-PPAR γ axis in the pathogenesis of colorectal cancer. *WORLD JOURNAL OF GASTROENTEROLOGY*, p. 7137-7157, ISSN: 1007-9327, doi: 10.3748/wjg.v20.i23.7137.
10. Pancione M, Giordano G, Remo A, Febbraro A, Sabatino L, Manfrin E, Ceccarelli M, Colantuoni V. (2014). Immune escape mechanisms in colorectal cancer pathogenesis and liver metastasis.. *JOURNAL OF IMMUNOLOGY RESEARCH*, ISSN: 2314-7156, doi: dx.doi.org/10.1155/2014/686879
11. Panza A, Votino C, Gentile A, Valvano MR, Colangelo T, Pancione M, Merla G, Andriulli A, Sabatino L, Vinciguerra M, Mazzoccoli G, Colantuoni V, Piepoli A (2014). Peroxisome Proliferator-Activated Receptor γ -mediated induction of microRNA-145 opposes tumor phenotype in colorectal cancer. *BIOCHIMICA ET BIOPHYSICA ACTA-MOLECULAR CELL RESEARCH*, ISSN: 0167-4889
12. Pagnotta SM, Laudanna C, Pancione M, Sabatino L, Votino C, Remo A, Cerulo L, Zoppoli P, Manfrin E, Colantuoni V, Ceccarelli M. (2013). Ensemble of gene signatures identifies novel biomarkers in colorectal cancer activated through PPAR γ and TNF α signaling.. *PLOS ONE*, vol. 8, ISSN: 1932-6203, doi: 10.1371/journal.pone.0072638
13. Colangelo T, Fucci A, Votino C, Sabatino L, Pancione M, Laudanna Binaschi M, Bigioni M, Maggi CA, Parente D, Forte N, and Vittorio Colantuoni (2013). MicroRNA-130b Promotes Tumor Development and Is Associated with Poor Prognosis in Colorectal Cancer. *NEOPLASIA*, vol. 15, p. 1218-1231, ISSN: 1522-8002, doi: 10.1593/neo.13998
14. Pancione M1, Remo A, Sabatino L, Zanella C, Votino C, Fucci A, Di Blasi A, Lepore G, Daniele B, Fenizia F, Molinari E, Normanno N, Manfrin E, Vendraminelli R, Colantuoni V. (2013). Right-sided rhabdoid colorectal tumors might be related to the serrated pathway.. *DIAGNOSTIC PATHOLOGY*, vol. 8, ISSN: 1746-1596, doi: 10.1186/1746-1596-8-31.
15. Sabatino L, Pancione M, Votino C, Colangelo T, Lupo A, Novellino E, Lavecchia A, Colantuoni V. (2013). The chromatin remodelling component SMARCB1/INI1 influences the metastatic behavior of colorectal cancer through a gene signature mapping to chromosome 22. *JOURNAL OF TRANSLATIONAL MEDICINE*, vol. 297, ISSN: 1479-5876, doi: doi: 10.1186/1479-5876-11-297.
16. Simmer F, Brinkman AB, Assenov Y, Matarese F, Kaan A, Sabatino L, Villanueva A, Huertas D, Esteller M, Lengauer T, Bock C, Colantuoni V, Altucci L, Stunnenberg HG. (2012). Comparative genome-wide DNA methylation analysis of colorectal tumor and matched normal tissues.. *EPIGENETICS*, vol. 7, ISSN: 1559-2294
17. Conzo G, Circelli L, Pasquali D, Sinisi A, Sabatino L, Accardo G, Renzullo A, Santini L, Salvatore F, Colantuoni V. (2012). Lessons to be learned from the clinical management of a MEN 2A patient bearing a novel 634/640/700 triple mutation of the RET proto-oncogene.. *CLINICAL ENDOCRINOLOGY*, ISSN: 0300-0664, doi: 10.1111
18. Sabatino L, Fucci A, Pancione M, Colantuoni V. (2012). PPARG Epigenetic Deregulation and Its Role in Colorectal Tumorigenesis.. *PPAR RESEARCH*, vol. 2012, ISSN: 1687-4757
19. Fucci A, Colangelo T, Votino C, Pancione M, Sabatino L, Colantuoni V. (2012). The role of peroxisome proliferator-activated receptors in the esophageal, gastric, and colorectal cancer.. *PPAR RESEARCH*, vol. 242498, ISSN: 1687-4757
20. Sabatino L, Fucci A, Pancione M, Carafa V, Nebbioso A, Pistore C, Babbio F, Votino C, Laudanna C, Ceccarelli M, Altucci L, Bonapace IM, Colantuoni V. (2012). UHRF1 coordinates peroxisome proliferator activated receptor gamma (PPARG) epigenetic silencing and mediates colorectal cancer progression.. *ONCOGENE*, vol. 31, p. 5061-5072, ISSN: 0950-9232, doi: 10.1038/onc2012.3
21. PANCIONE M, DI BLASI A, SABATINO L, FUCCI A, DALENA AM, PALOMBI N, CAROTENUTO P, AQUINO G, DANIELE B, NORMANNO N, COLANTUONI V (2011). A novel case of rhabdoid colon

- carcinoma associated with a positive CpG island methylator phenotype and BRAF mutation. HUMAN PATHOLOGY, ISSN: 0046-8177
22. Polcari A, Romano P, Sabatino L, del Vecchio E, Consales M, Cusano A, Cutolo A and Colantuoni V (2011). Electrical and optical characterization of DNA molecules as a function of concentration in aqueous solution. JOURNAL OF APPLIED PHYSICS, vol. 109, ISSN: 1089-7550
 23. Capaccio D, Ciccodicola A, Sabatino L, Casamassimi A, Pancione M, Fucci A, Febbraro A, Merlino A, Graziano G, Colantuoni V (2010). A novel germline mutation in Peroxisome Proliferator-Activated Receptor gamma gene associated with large intestine polyp formation and dyslipidemia. BIOCHIMICA ET BIOPHYSICA ACTA. MOLECULAR BASIS OF DISEASE, vol. 1802, p. 572-581, ISSN: 0925-4439, doi: 10.1016/j.bbadis.2010.01.012
 24. Lapi D, Sabatino L, Altobelli G G, Mondola P, Cimini V and Colantuoni A (2010). Effects of propionyl-L-carnitine on ischemia-reperfusion injury in hamster cheek pouch microcirculation. FRONTIERS IN PHYSIOLOGY, vol. 1 art.132, p. 1-10, ISSN: 1664-042X, doi: 10.3389/fphys.2010.00132
 25. PANCIONE M, SABATINO L, FUCCI A, CARAFA V, NEBBIOSO A, FORTE N, FEBBRARO A, PARENTE D, AMBROSINO C, NORMANNO N, ALTUCCI L, COLANTUONI V (2010). Epigenetic silencing of peroxisome proliferator-activated receptor γ is a biomarker for colorectal cancer progression and adverse patients' outcome. PLOS ONE, vol. 5, ISSN: 1932-6203
 26. PANCIONE M, FORTE N, FUCCI A, SABATINO L, FEBBRARO A, DI BLASI A, DANIELE B, PARENTE D, COLANTUONI V (2010). Prognostic role of beta-catenin and p53 expression in the metastatic progression of sporadic colorectal cancer. HUMAN PATHOLOGY, vol. 41, p. 867-876, ISSN: 0046-8177
 27. PANCIONE M, FORTE N, CAMPIONE S, NAPOLITANO A, PARENTE D, SABATINO L, FEBBRARO A, COLANTUONI V (2010). The high expression of p53 in sporadic colorectal carcinoma is associated with metastasis and decreased survival. PATHOLOGICA, vol. 102, ISSN: 1591-951X
 28. P. ROMANO, A. POLCARI, V. GRANATA, SABATINO L, V. COLANTUONI (2009). Does the deoxyribonucleic acid shape dictate its conductivity?. JOURNAL OF APPLIED PHYSICS, vol. 105, ISSN: 0021-8979
 29. PANCIONE M, FORTE N, SABATINO L, TOMASELLI E, PARENTE D, FEBBRARO A, COLANTUONI V (2009). Reduced β -catenin and PPAR γ expression levels are associated to colorectal cancer metastatic progression: correlation with tumor associated macrophages, COX-2 and patients' outcome. HUMAN PATHOLOGY, vol. 40(5), p. 714-725, ISSN: 0046-8177
 30. BIANCONCINI A, LUPO A, CAPONE S, QUADRO L, MONTI M, ZURLO D, FUCCI A, SABATINO L, BRUNETTI A, CHIEFARI E, GOTTESMAN ME, BLANER WS, COLANTUONI V (2009). Transcriptional activity of the murine retinol-binding protein gene is regulated by a multiprotein complex containing HMGA1, p54 nrb/NonO, protein-associated splicing factor (PSF) and steroidogenic factor 1 (SF1)/liver receptor homologue 1 (LRH-1). THE INTERNATIONAL JOURNAL OF BIOCHEMISTRY & CELL BIOLOGY, vol. 41, p. 2189-2203, ISSN: 1357-2725
 31. SABATINO L, CASAMASSIMI A, PELUSO G, BARONE MV, CAPACCIO D, MIGLIORE C, BONELLI P, PEDICINI A, FEBBRARO A, CICCODICOLA A, COLANTUONI V (2005). A novel peroxisome proliferator-activated receptor gamma isoform with dominant negative activity generated by alternative splicing. THE JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 280, p. 26517-26525, ISSN: 0021-9258
 32. MANCINI FP, SABATINO L, COLANTUONI V, PASANISI F, FINELLI C, CONTALDO F, MASULLI M, RICCARDI G, VACCARO O (2003). Variants of uncoupling protein-2 gene and obesity: interaction with peroxisome proliferator-activated receptor gamma2. CLINICAL ENDOCRINOLOGY, vol. 59(6), p. 817-822, ISSN: 0300-0664

33. LANNI A, MANCINI FP, SABATINO L, SILVESTRI E, FRANCO R, DE ROSA G, GOGLIA F, COLANTUONI V (2002). De novo expression of uncoupling protein 3 is associated to enhanced mitochondrial thioesterase-1 expression and fatty acid metabolism in liver of fenofibrate-treated rats. FEBS LETTERS, vol. 525, p. 7-12, ISSN: 0014-5793
34. VACCARO O, MANCINI FP, RUFFA G, SABATINO L, IOVINE C, MASULLI M, COLANTUONI V, RICCARDI G (2002). Fasting plasma free fatty acid concentrations and Pro12Ala polymorphism of the peroxisome proliferator-activated receptor (PPAR) gamma2 gene in healthy individuals. CLINICAL ENDOCRINOLOGY, vol. 57, p. 481-486, ISSN: 0300-0664
35. MANCINI FP, LANNI A, SABATINO L, MORENO M, GIANNINO A, CONTALDO F, COLANTUONI V, GOGLIA F (2001). Fenofibrate prevents and reduces body weight gain and adiposity in diet-induced obese rats. FEBS LETTERS, vol. 491, p. 154-158, ISSN: 0014-5793
36. NARDONE G, HOLICKY EL, UHL JR, SABATINO L, STAIBANO S, ROCCO A, COLANTUONI V, MANZO BA, ROMANO M, BUDILLON G, COCKERILL FR RD, MILLER LJ (2001). In vivo and in vitro studies of cytosolic phospholipase A2 expression in Helicobacter pylori infection. INFECTION AND IMMUNITY, vol. 69, p. 5857-5863, ISSN: 0019-9567
37. VACCARO O, MANCINI FP, RUFFA G, SABATINO L, COLANTUONI V, RICCARDI G (2000). Pro12Ala mutation in the peroxisome proliferator-activated receptor gamma2 (PPARgamma2) and severe obesity: a case-control study. INTERNATIONAL JOURNAL OF OBESITY, vol. 24, p. 1195-1199, ISSN: 0307-0565
38. MANCINI FP, VACCARO O, SABATINO L, TUFANO A, RIVELLESE AA, RICCARDI G, COLANTUONI V (1999). Pro12Ala substitution in the peroxisome proliferator-activated receptor-gamma2 is not associated with type 2 diabetes. DIABETES, vol. 48, p. 1466-1468, ISSN: 0012-1797

A handwritten signature in black ink, appearing to read 'Antonio Sabatino', is located in the lower right quadrant of the page.