

# Curriculum Vitae Alessia Finotti

(updated: January 2021)



## EDUCATION

2005 Ph.D. Research Doctorate in Biotechnology, University of Ferrara.

2001 Master Degree in Chemistry and in Chemical and Pharmaceutical Technologies, University of Ferrara, (110/110 magna cum laude).

## PROFESSIONAL RESEARCH EXPERIENCE

2016-date: Assistant Professor in Biochemistry (corresponding to the Italian “Ricercatore a tempo determinato RTD-A”), SSD BIO/10, University of Ferrara, Department of Life Sciences and Biotechnology, Ferrara, Italy.

2005-2016: Post-doctoral fellow/Research fellow at Ferrara University, Department of Life Sciences and Biotechnology and Department of Biochemistry and Molecular Biology, Ferrara, Italy.

## TEACHING EXPERIENCE

2015-date: Professor of the Courses: Cellular and Molecular Therapies, Recombinant and Molecular Technologies, Omics and Molecular Diagnosis, Advanced Biomolecular Technologies (Biotechnology Degree); Biomolecular Drugs (Pharmacy Degree); Molecular Biology of the Cell (Biological Sciences Degree); Applied Biochemistry (Chemical and Pharmaceutical Technologies Degree, laboratory).

## FUNDING (Most recent)

-2020-2022: Principal Investigator (PI) FAR (Fondo di Ateneo per la Ricerca Scientifica) project. Title: Development of CRISPR/Cas9 based Genome Editing strategies for genetic diseases alone or in combined treatments with other gene therapy approaches (ComboGenE).

-2020-2021: Principal Investigator (PI) FIR (Fondo per l’incentivazione alla ricerca MIUR) project. Title: Impiego di strategie di microRNA targeting combinate a trattamenti con composti di origine naturale ad attività antiproliferativa e pro-apoptotica: studio dell’effetto antitumorale in-vitro su modelli cellulari di carcinoma del colon-retto, di glioblastoma e di carcinoma mammario (NaturalMiR-Combo).

-2020-2021: Principal Investigator (PI) of the project funded by Associazione Italiana Sindrome di Shwachman (AISS). Title: Combined approaches for Shwachman-Diamond Syndrome: microRNA targeting, gene editing and read-through correction (miRCOMBO-SDS).

-2019-2020: Internal Collaborator of project FFC #7/2018 (Fondazione Fibrosi Cistica). Title: Revealing the microRNAs-transcription factors network in cystic fibrosis: from microRNA therapeutics to precision medicine (CF-miRNA-THER).

-2019-2020: External Collaborator of project FFC #7/2019 (Fondazione Fibrosi Cistica). Title: Targeting the signalling network controlling proteostasis and inflammation to rescue F508del-CFTR.

-2018-2020 Principal Investigator (PI) FAR (Fondo di Ateneo per la Ricerca Scientifica) project. Title: Theranostic approaches: microRNAs targeting in: (a) genetic diseases (cystic fibrosis, beta-thalassemia, and Shwachman-Diamond Syndrome); (b) blood infusion in athletes and (c) neoplastic diseases.

-2018-2020: Co-investigator of project from Wellcome Trust Innovator Award 2018. Title: A personalized medicine approach for beta-thalassemia patients: testing sirolimus in a first pilot clinical trial (sirthalaclin).

-2018-2021: Internal Collaborator/Member of Operative Unit. Project AIFA-2016-02364887 funded by Italian Medicines Agency. Title: Treatment of beta-thalassemia patients with Rapamycin (Sirolimus): from pre-clinical research to a clinical trial (THAL-RAP).

-2018-2019: Principal Investigator (PI) FIR (Fondo per l’incentivazione alla ricerca MIUR) project. Title: Peptide Nucleic Acids for genome editing in beta-thalassemia.

-2018-2019: Co-Investigator WADA (World Anti-Doping Agency) Research Grant. Title: Development of micro RNA based protocols for detection of autologous blood transfusion in sport.

-2016-2018: Internal Collaborator of project FFC #1/2016 (Fondazione Fibrosi Cistica). Title: New generation trimethylangelicin (TMA) analogues for selective modulation of defective CFTR or inflammation.

-2015-2018: Internal Collaborator in project n° 633937-H2020-PHC-2014-two-stage. Title: “ULTRAPLACAD” (ULTRASensitive PLASmonic devices for early CANcer Diagnosis).

-2017-2018: Principal Investigator (PI) FAR (Fondo di Ateneo per la Ricerca Scientifica) project. Title: Biosensors and novel technological platforms for liquid biopsy and circulating miRNAs analysis.  
-2016-2017: Principal Investigator (PI) FIR (Fondo per l'Incentivazione alla Ricerca MIUR) project. Title: MicroRNA profiling in liquid biopsy from patients with Shwachman-Diamond Syndrome: identification of molecular basis of the pathology and novel prognostic biomarkers.  
-2016-2017: Internal Collaborator FFC3#2016 (Fondazione Fibrosi Cistica) project. Title: MicroRNA Therapeutics in CF: Targeting CFTR and inflammation networks (MicroRNA-CF).  
-2014-2017: External Collaborator FFC#17/2014 (Fondazione Fibrosi Cistica) project. Title: TRPA1 channels as novel molecular targets for anti-inflammatory therapies in CF lung.  
-2015-2016: Co-Investigator WADA (World Anti-Doping Agency - Health, Medical and Research Committee Research Program) Project. Title: Novel molecular biomarkers for detection of autologous blood transfusion.  
-2012-2016: Internal Collaborator in Project n° 306201-FP7-HEALTH-2012-INNOVATION-1. Title: "THALAMOSS" (THALAssemia MODular Stratification System for personalized therapy of beta-thalassemia).

### **OTHER LEADERSHIP EXPERIENCE**

-Academic tutor and supervisor, as member of the staff of the Ph.D. program in Biomedical and Biotechnological Sciences at UNIFE of the Ph.D. students Dr. Matteo Zurlo and Dr. Chiara Papi. Supervisor of the junior researchers Lucia Carmela Cosenza and Jessica Gasparello (post-doc positions).  
-Coordinator and Scientific Manager of the Institutional Research Project between Rare Partners S.r.l. and Dipartimento di Scienze della Vita e Biotechnologie dell'Università di Ferrara. Title of the Project "Activity of Sirolimus in combination with other biomolecules used in precision medicine and personalized therapy of beta-thalassemia patients), 01/12/2017-31/03/2019.  
-Group Leader position in coordinating and experimental design of WP1, Task 1.2 (Specifications of colorectal cancer biomarkers and samples requirements) and WP4, Task 4.1 (Recruitment and validation of clinical samples for microRNAs), European Project Progetto n° 633937-H2020-PHC-2014-two-stage-ULTRASensitive PLAsmonic devices for early CANcer Diagnosis (ULTRAPLACAD), 01/05/2015-31/10/2018.  
-Coordinator and supervisor of experiments' execution in the Project of Animal Experimentation "Characterization and use of murine models for thalassemia (Auth. from Italian Healthy Minister number° 362-2015-PR), 2015-2020.

### **PRINCIPAL RESEARCH TOPICS**

Molecular strategies to modulate gene expression in the treatment of genetic rare diseases (e.g. beta-thalassemia, cystic fibrosis, Shwachman-Diamond Syndrome);  
Study of microRNAs involved in human pathologies for the development of new approaches of microRNA targeting and miRNA replacement;  
Biomedical and biotechnological applications of peptide nucleic acids (PNA) and structural analogues directed against mRNA and microRNA;  
Development of innovative systems for the delivery of biodrugs;  
Gene editing in beta-thalassemia, SCD, Shwachman-Diamond Syndrome and cystic fibrosis;  
Proteomics and transcriptomics (microRNA and mRNA NGS) analysis in genetic diseases (cystic fibrosis, beta-thalassemia, Shwachman-Diamond Syndrome) and in neoplastic pathologies (glioblastoma, colon cancer);  
Biological evaluation of novel compounds as inducers of erythroid differentiation in the therapy of hematological diseases;  
Read-through strategy for the treatments of genetic rare diseases caused by nonsense mutations;  
SPR-based molecular diagnosis of genetic diseases;  
Molecular analysis of peripheral blood (liquid biopsy) biomarkers (circulating microRNAs) in cancer patients.  
Identification of changed levels in circulating (plasma) microRNA in auto-hemotransfused athletes;  
Study of transcription factors in gene transcriptional regulation;

### **PATENTS**

Co-inventor of two Patents concerning the development of novel systems for nucleic acids/peptide nucleic acids (PNA) delivery:  
- Patent N°102017000139871, 14 Feb 2020, title "Transfection agents for microRNA and antagomiRNA"  
- Patent N°102017000139872, 14 Feb 2020, title "Transfection agents for peptide nucleic acids (PNA)"

## **OTHER EXPERIENCE AND PROFESSIONAL MEMBERSHIP**

- 2020-date Member of the Steering Committee of Center for Innovative Therapies for Cystic Fibrosis, Ferrara University, Italy
- 2016-date Member of the Biomedical and Biotechnological Sciences Ph.D. Academic Board at Ferrara University.
- 2005-date Member of Thal-Lab: Laboratorio per lo sviluppo di terapie farmacologiche e farmacogenomiche per la Talassemia, Ferrara University, Italy
- 2019-date Member of the "International Society of Precision Cancer Medicine (ISPCM), Italy.
- 2016-date Member of Stem Cell Research (SCR) Italy.
- 2013-date Member of the Italian Society of Biochemistry and Molecular Biology (SIB).
- 2015-date Scientific Reviewer for ASSAY and Drug Development Technologies, Experimental & Clinical Cancer Research, Experimental and Therapeutic Medicine, Assay and Drug Development Technology, Cancer Gene Therapy, Frontiers in Genome Editing, Journal of Clinical Medicine, Molecular Oncology, Plos One, International Journal of Molecular Medicine, Oncology Letters, Molecular Medicine Reports, Molecular Biotechnology, African Journal of Biotechnology, Amino Acids, Genomics Data, Cell & Gene Therapy Insight, Biomedical Reports.
- 2016-date Member of the Editorial Board of "Experimental and Therapeutic Medicine" journal (ISSN: 1792-0981).

## **AWARDS, HONORS, and ACADEMIC TITLES**

- 2017-date Assignee of Eligibilities from Italian MIUR for the Associate Professor positions in General Biochemistry and in Clinical Biochemistry-Clinical Molecular Biology
- 2008 Title of "Cultore della materia" (Expert in teaching) for the disciplinary scientific sector (SSD) of Biochemistry, Ferrara University, Italy
- 2016 Winner of the prize entitled "Prof. Paolo Bianco Award" for the best abstract and poster presented at "VII Meeting Stem Cell Research Italy", Bologna, Italy, June 21<sup>th</sup>-23<sup>th</sup>, 2016.

## **NATIONAL/INTERNATIONAL CONFERENCES/MEETINGS**

Oral communications at **15** National/International Conferences/Meetings. Member of the Organization Board and Scientific Board of **4** National/International Conferences/Meeting.

## **SCIENTIFIC PUBLICATIONS** (Updated: January 2021, from Scopus)

More than **91** full article publications in peer-reviewed International Journals (h-index **22**, total citations **1409**; Source: Scopus); **8** book chapters, more than 50 meeting abstract published in indexed journals.

ORCID ID: <https://orcid.org/0000-0002-7638-515X>, WOS/Researcher ID: C-6268-2012, Scopus Author ID: 6506289571

## **PUBLICATIONS LIST**

Gasparello J, Finotti A, Gambari R.

Tackling the COVID-19 "cytokine storm" with microRNA mimics directly targeting the 3'UTR of pro-inflammatory mRNAs.

Med Hypotheses. 2020 Nov 25;146:110415. doi: 10.1016/j.mehy.2020.110415. Online ahead of print.

Finotti A, Gasparello J, Casnati A, Corradini R, Gambari R, Sansone F.

Delivery of Peptide Nucleic Acids Using an Argininocalix[4]arene as Vector.

Methods Mol Biol. 2021;2211:123-143. doi: 10.1007/978-1-0716-0943-9\_10.

Fabbi E, Tamanini A, Jakova T, Gasparello J, Manicardi A, Corradini R, Finotti A, Borgatti M, Lampronti I, Munari S, Dehecchi MC, Cabrini G, Gambari R.

Treatment of human airway epithelial Calu-3 cells with a peptide-nucleic acid (PNA) targeting the microRNA miR-101-3p is associated with increased expression of the cystic fibrosis Transmembrane Conductance Regulator (CFTR) gene.

Eur J Med Chem. 2021 Jan 1;209:112876. doi: 10.1016/j.ejmech.2020.112876.

Lampronti I, Simoni D, Rondanin R, Baruchello R, Scapoli C, Finotti A, Borgatti M, Tupini C, Gambari R. Pro-apoptotic activity of novel synthetic isoxazole derivatives exhibiting inhibitory activity against tumor cell

growth in vitro.

Oncol Lett. 2020 Nov;20(5):151. doi: 10.3892/ol.2020.12002. Epub 2020 Aug 24.

Gasparello J, Papi C, Allegretti M, Giordani E, Carboni F, Zazza S, Pescarmona E, Romania P, Giacomini P, Scapoli C, Gambari R, Finotti A.

A Distinctive microRNA (miRNA) Signature in the Blood of Colorectal Cancer (CRC) Patients at Surgery. *Cancers (Basel)*. 2020 Aug 25;12(9):2410. doi: 10.3390/cancers12092410.

Cabrini G, Rimessi A, Borgatti M, Lampronti I, Finotti A, Pinton P, Gambari R.

Role of Cystic Fibrosis Bronchial Epithelium in Neutrophil Chemotaxis.

*Front Immunol*. 2020 Aug 4;11:1438. doi: 10.3389/fimmu.2020.01438. eCollection 2020.

Romagnoli R, Prencipe F, Oliva P, Cacciari B, Balzarini J, Liekens S, Hamel E, Brancale A, Ferla S, Manfredini S, Zurlo M, Finotti A, Gambari R.

Synthesis and Biological Evaluation of New Antitubulin Agents Containing 2-(3',4',5'-trimethoxyanilino)-3,6-disubstituted-4,5,6,7-tetrahydrothieno[2,3-c]pyridine Scaffold.

*Molecules*. 2020 Apr 7;25(7):1690. doi: 10.3390/molecules25071690.

Sultan S, Rozzi A, Gasparello J, Manicardi A, Corradini R, Papi C, Finotti A, Lampronti I, Reali E, Cabrini G, Gambari R, Borgatti M.

A Peptide Nucleic Acid (PNA) Masking the miR-145-5p Binding Site of the 3'UTR of the Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) mRNA Enhances CFTR Expression in Calu-3 Cells.

*Molecules*. 2020 Apr 5;25(7):1677. doi: 10.3390/molecules25071677.

Gambari R, Gasparello J, Fabbri E, Borgatti M, Tamanini A, Finotti A.

Peptide Nucleic Acids for MicroRNA Targeting.

*Methods Mol Biol*. 2020;2105:199-215. doi: 10.1007/978-1-0716-0243-0\_12.

Gasparello J, Gambari L, Papi C, Rozzi A, Manicardi A, Corradini R, Gambari R, Finotti A.

High Levels of Apoptosis Are Induced in the Human Colon Cancer HT-29 Cell Line by Co-Administration of Sulforaphane and a Peptide Nucleic Acid Targeting miR-15b-5p.

*Nucleic Acid Ther*. 2020 Jun;30(3):164-174. doi: 10.1089/nat.2019.0825.

Gasparello J, Lomazzi M, Papi C, D'Aversa E, Sansone F, Casnati A, Donofrio G, Gambari R, Finotti A.

Efficient Delivery of MicroRNA and AntimiRNA Molecules Using an Argininocalix[4]arene Macrocyclic. *Mol Ther Nucleic Acids*. 2019 Dec 6;18:748-763. doi: 10.1016/j.omtn.2019.09.029.

Gasparello J, Papi C, Zurlo M, Corradini R, Gambari R, Finotti A.

Demonstrating specificity of bioactive peptide nucleic acids (PNAs) targeting microRNAs for practical laboratory classes of applied biochemistry and pharmacology.

*PLoS One*. 2019 Sep 11;14(9):e0221923. doi: 10.1371/journal.pone.0221923. eCollection 2019.

Gemmo C, Breveglieri G, Marzaro G, Lampronti I, Cosenza LC, Gasparello J, Zuccato C, Fabbri E, Borgatti M, Chin A, Finotti A, Gambari R.

Surface plasmon resonance based analysis of the binding of LYAR protein to the rs368698783 (G>A) polymorphic Agamma-globin gene sequences mutated in beta-thalassemia.

*Anal Bioanal Chem*. 2019 Nov;411(29):7699-7707. doi: 10.1007/s00216-019-01987-9. (Co-corresponding)

Breveglieri G, Salvatori F, Finotti A, Cosenza LC, Zuccato C, Bianchi N, Breda L, Rivella S, Bresciani A, Bisbocci M, Borgatti M, Gambari R.

Development and characterization of cellular biosensors for HTS of erythroid differentiation inducers targeting the transcriptional activity of  $\gamma$ -globin and  $\beta$ -globin gene promoters. *Anal Bioanal Chem*. 2019 Nov;411(29):7669-7680. doi: 10.1007/s00216-019-01959-z.

Gasparello J, Lamberti N, Papi C, Lampronti I, Cosenza LC, Fabbri E, Bianchi N, Zambon C, Dalla Corte F, Govoni M, Reverberi M, Manfredini F, Gambari R, Finotti A.

Altered erythroid-related miRNA levels as a possible novel biomarker for detection of autologous blood

transfusion misuse in sport.  
Transfusion. 2019 Aug;59(8):2709-2721. doi: 10.1111/trf.15383.

Gasparello J, Allegretti M, Papi C, Giordani E, Giacomini P, Gambari R, Finotti A.  
Circulating microRNAs and liquid biopsy: murine xenograft models for technical validation of clinical protocols.  
J Cancer Metastasis Treat 2019;5:52. doi: 10.20517/2394-4722.2019.1

Milani R, Brognara E, Fabbri E, Manicardi A, Corradini R, Finotti A, Gasparello J, Borgatti M, Cosenza LC, Lampronti I, Dechecchi MC, Cabrini G.  
Targeting miR-155-5p and miR-221-3p by Peptide Nucleic Acids (PNAs): Induction of Caspase-3 and Apoptosis in Temozolomide-Resistant T98G glioma cells.  
Int J Oncol. 2019 Jul;55(1):59-68. doi: 10.3892/ijo.2019.4810.

Gasparello J, Manicardi A, Casnati A, Corradini R, Gambari R, Finotti A, Sansone F.  
Efficient cell penetration and delivery of peptide nucleic acids by an argininocalix[4]arene.  
Sci Rep. 2019 Feb 28;9(1):3036. doi: 10.1038/s41598-019-39211-4. (Co-corresponding Author).

Finotti A, Gasparello J, Fabbri E, Tamanini A, Corradini R, Dechecchi MC, Cabrini G, Gambari R.  
Enhancing the Expression of CFTR Using Antisense Molecules Against MicroRNA miR-145-5p.  
Am J Respir Crit Care Med. 2019 Feb 27. doi: 10.1164/rccm.201901-0019LE.

Breveglieri G, D'Aversa E, Finotti A, Borgatti M.  
Non-invasive Prenatal Testing Using Fetal DNA.  
Mol Diagn Ther. 2019 Apr;23(2):291-299. doi: 10.1007/s40291-019-00385-2

Finotti A, Fabbri E, Lampronti I, Gasparello J, Borgatti M, Gambari R.  
MicroRNAs and Long Non-coding RNAs in Genetic Diseases.  
Mol Diagn Ther. 2019 Jan 4. doi: 10.1007/s40291-018-0380-6.

Chung PY, Lam PL, Zhou YY, Gasparello J, Finotti A, Chilin A, Marzaro G, Gambari R, Bian ZX, Kwok WM, Wong WY, Wang X, Lam AK, Chan AS, Li X, Ma JY, Chui CH, Lam KH, Tang JC.  
Targeting DNA Binding for NF- $\kappa$ B as an Anticancer Approach in Hepatocellular Carcinoma.  
Cells. 2018 Oct 22;7(10). pii: E177. doi: 10.3390/cells7100177.

Finotti A, Allegretti M, Gasparello J, Giacomini P, Spandidos DA, Spoto G, Gambari R.  
Liquid biopsy and PCR-free ultrasensitive detection systems in oncology (Review).  
Int J Oncol. 2018 Oct;53(4):1395-1434. doi: 10.3892/ijo.2018.4516.

Gasparello J, Allegretti M, Tremante E, Fabbri E, Amoreo CA, Romania P, Melucci E, Messina K, Borgatti M, Giacomini P, Gambari R, Finotti A.  
Liquid biopsy in mice bearing colorectal carcinoma xenografts: gateways regulating the levels of circulating tumor DNA (ctDNA) and miRNA (ctmiRNA).  
J Exp Clin Cancer Res. 2018 Jun 26;37(1):124. doi: 10.1186/s13046-018-0788-1.

Salvatori F, Pappadà M, Breveglieri G, D'Aversa E, Finotti A, Lampronti I, Gambari R, Borgatti M.  
UPF1 silenced cellular model systems for screening of read-through agents active on  $\beta$ 039 thalassemia point mutation.  
BMC Biotechnol. 2018 May 15;18(1):28. doi: 10.1186/s12896-018-0435-0

Lamberti N, Finotti A, Gasparello J, Lampronti I, Zambon C, Cosenza LC, Fabbri E, Bianchi N, Dalla Corte F, Govoni M, Reverberi R, Gambari R, Manfredini F. Changes in hemoglobin profile reflect autologous blood transfusion misuse in sports. Intern Emerg Med. 2018 Mar 23. doi: 10.1007/s11739-018-1837-7. (Co-first author)

Breveglieri, G, D'Aversa, E, Gallo, T, Pellegatti, P, Guerra, G, Cosenza, LC, Finotti, A, Gambari, R, Borgatti, M.

- A novel and efficient protocol for Surface Plasmon Resonance based detection of four B-thalassemia point mutations in blood samples and salivary swabs.  
*Sensors and Actuators, B: Chemical*, Volume 260, 1 May 2018, Pages 710-718.  
doi: 10.1016/j.snb.2017.12.209
- Fabbri E, Tamanini A, Jakova T, Gasparello J, Manicardi A, Corradini R, Sabbioni G, Finotti A, Borgatti M, Lampronti I, Munari S, Dececchi MC, Cabrini G, Gambari R.  
A Peptide Nucleic Acid against MicroRNA miR-145-5p Enhances the Expression of the Cystic Fibrosis Transmembrane Conductance Regulator (CFTR) in Calu-3 Cells.  
*Molecules*. 2017 Dec 29;23(1). pii: E71. doi: 10.3390/molecules23010071.
- Finotti A, Gasparello J, Lampronti I, Cosenza LC, Maconi G, Matarese V, Gentili V, Di Luca D, Gambari R, Caselli M.  
PCR detection of segmented filamentous bacteria in the terminal ileum of patients with ulcerative colitis.  
*BMJ Open Gastroenterol*. 2017 Dec 4;4(1):e000172. doi: 10.1136/bmjgast-2017-000172.
- Gasparello J, Fabbri E, Bianchi N, Breveglieri G, Zuccato C, Borgatti M, Gambari R, Finotti A. (Corresponding Author)  
BCL11A mRNA Targeting by miR-210: A Possible Network Regulating  $\gamma$ -Globin Gene Expression.  
*Int J Mol Sci*. 2017 Nov 26;18(12). pii: E2530. doi: 10.3390/ijms18122530.
- Lampronti I, Manzione MG, Sacchetti G, Ferrari D, Spisani S, Bezzerri V, Finotti A, Borgatti M, Dececchi MC, Miolo G, Marzaro G, Cabrini G, Gambari R, Chilin A.  
Differential Effects of Angelicin Analogues on NF- $\kappa$ B Activity and IL-8 Gene Expression in Cystic Fibrosis IB3-1 Cells.  
*Mediators Inflamm*. 2017;2017:2389487. doi: 10.1155/2017/2389487
- Montagner G, Bezzerri V, Cabrini G, Fabbri E, Borgatti M, Lampronti I, Finotti A, Nielsen PE, Gambari R.  
An antisense peptide nucleic acid against *Pseudomonas aeruginosa* inhibiting bacterial-induced inflammatory responses in the cystic fibrosis IB3-1 cellular model system.  
*Int J Biol Macromol*. 2017 Jun;99:492-498. doi: 10.1016/j.ijbiomac.2017.02.011
- Breviglieri G, Bianchi N, Cosenza LC, Gamberini MR, Chiavilli F, Zuccato C, Montagner G, Borgatti M, Lampronti I, Finotti A, Gambari R.  
An A $\gamma$ -globin G->A gene polymorphism associated with  $\beta$ 039 thalassemia globin gene and high fetal hemoglobin production.  
*BMC Med Genet*. 2017 Aug 29;18(1):93. doi: 10.1186/s12881-017-0450-3.
- Milani R, Brognara E, Fabbri E, Finotti A, Borgatti M, Lampronti I, Marzaro G, Chilin A, Lee KK, Kok SH, Chui CH, Gambari R.  
Corilagin Induces High Levels of Apoptosis in the Temozolomide-Resistant T98G Glioma Cell Line.  
*Oncol Res*. 2017 May 4. doi: 10.3727/096504017X14928634401187.
- Ground state naïve pluripotent stem cells and CRISPR/Cas9 gene correction for  $\beta$ -thalassemia.  
Finotti A, Borgatti M, Gambari R.  
*Stem Cell Investig*. 2016 Oct 25;3:66. eCollection 2016. doi: 10.21037/sci.2016.09.21
- Cosenza LC, Breda L, Breveglieri G, Zuccato C, Finotti A, Lampronti I, Borgatti M, Chiavilli F, Gamberini MR, Satta S, Manunza L, De Martis FR, Moi P, Rivella S, Gambari R, Bianchi N.  
A validated cellular biobank for  $\beta$ -thalassemia.  
*J Transl Med*. 2016 Sep 2;14:255. doi: 10.1186/s12967-016-1016-4.
- Bezzerri V, Vella A, Calcaterra E, Finotti A, Gasparello J, Gambari R, Assael BM, Cipolli M, Sorio C.  
New insights into the Shwachman-Diamond Syndrome-related haematological disorder: hyper-activation of mTOR and STAT3 in leukocytes.  
*Sci Rep*. 2016 Sep 23;6:33165. doi: 10.1038/srep33165

Prandini P, De Logu F, Fusi C, Provezza L, Nassini R, Montagner G, Materazzi S, Munari S, Gilioli E, Bezzerri V, Finotti A, Lampronti I, Tamanini A, Dececchi M, Lippi G, Ribeiro CM, Rimessi A, Pinton P, Gambari R, Geppetti P, Cabrini G.

TRPA1 Channels Modulate Inflammatory Response in Respiratory Cells from Cystic Fibrosis Patients. *Am J Respir Cell Mol Biol.* 2016 Nov;55(5):645-656. doi: 10.1165/rcmb.2016-0089OC

Khalil S, Fabbri E, Santangelo A, Bezzerri V, Cantù C, Di Gennaro G, Finotti A, Ghimenton C, Eccher A, Dececchi M, Scarpa A, Hirshman B, Chen C, Ferracin M, Negrini M, Gambari R, Cabrini G.

miRNA array screening reveals cooperative MGMT-regulation between miR-181d-5p and miR-409-3p in glioblastoma.

*Oncotarget.* 2016 May 10;7(19):28195-206. doi: 10.18632/oncotarget.8618.

Fabbri E, Montagner G, Bianchi N, Finotti A, Borgatti M, Lampronti I, Cabrini G, Gambari R.

MicroRNA miR-93-5p regulates expression of IL-8 and VEGF in neuroblastoma SK-N-AS cells.

*Oncol Rep.* 2016 May;35(5):2866-72. doi: 10.3892/or.2016.4676.

Finotti, Alessia; Borgatti, Monica; Bianchi, Nicoletta; Zuccato, Cristina; Lampronti, Ilaria; Gambari, Roberto. Orphan Drugs and Potential Novel Approaches for Therapies of beta-Thalassemia: Current Status and Future Expectations.

*Expert Opin Orphan Drugs.* 2016;4(3):299-315. doi: 10.1517/21678707.2016.1135793

Bianchi N, Cosenza LC, Lampronti I, Finotti A, Breveglieri G, Zuccato C, Fabbri E, Marzaro G, Chilin A, De Angelis G, Borgatti M, Gallucci C, Alfieri C, Ribersani M, Isgrò A, Marziali M, Gaziev J, Morrone A, Sodani P, Lucarelli G, Gambari R, Paciaroni K.

Structural and Functional Insights on an Uncharacterized  $\text{A}\gamma$ -Globin-Gene Polymorphism Present in Four  $\beta$ 0-Thalassemia Families with High Fetal Hemoglobin Levels.

*Mol Diagn Ther.* 2016 Apr;20(2):161-73. doi: 10.1007/s40291-016-0187-2.

Breveglieri G, Bassi E, Carlassara S, Cosenza LC, Pellegatti P, Guerra G, Finotti A, Gambari R, Borgatti M. Y-chromosome identification in circulating cell-free fetal DNA using surface plasmon resonance.

*Prenat Diagn.* 2016 Apr;36(4):353-61. doi: 10.1002/pd.4788

Altamura E, Borgatti M, Finotti A, Gasparello J, Gambari R, Spinelli M, Castaldo R, Altamura N.

Chemical-Induced Read-Through at Premature Termination Codons Determined by a Rapid Dual-Fluorescence System Based on *S. cerevisiae*.

*PLoS One.* 2016 Apr 27;11(4):e0154260. doi: 10.1371/journal.pone.0154260. eCollection 2016.

Brogna E, Fabbri E, Montagner G, Gasparello J, Manicardi A, Corradini R, Bianchi N, Finotti A, Breveglieri G, Borgatti M, Lampronti I, Milani R, Dececchi MC, Cabrini G, Gambari R.

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