

BIOGRAPHICAL SKETCH

<p>NAME Elena Baiamonte</p> <p>Date of Birth: 15/07/1977</p> <p>Address: Messina Marine,411, Palermo, Italy</p> <p>E-mail: elenabaiamonte77@gmail.com</p> <p>Work phone:+390916802744</p> <p>Cell phone:+393664941652</p>	<p>POSITION-TITLE Term-contract worker</p>
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EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
University of Palermo, Italy	MS	2002	Molecular biology
University of Palermo, Italy	Post-graduate Specialization	2007	Clinical Pathology

Work experience

- 05/02/2017-
05/01/2018
- Term-contract as Researcher with experience in cell biology**
Hematology and rare blood diseases division of Ospedali Riuniti Villa Sofia Cervello Hospital, Palermo, Italy.
- Title of the project: “ Domestic hematologic care in Sicily a process of humanization”
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- 03/24/17-
04/23/2017
- Term-contract as Researcher with experience in cell biology**
Ospedali Riuniti Villa Sofia-Cervello Hospital in partnership with the Franco e Piera Cutino Foundation, Palermo, Italy.
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- 09/01/15-
02/28/2017
- Term-contract as Researcher with experience in cell biology**
Hematology and rare blood diseases division of Ospedali Riuniti Villa Sofia-Cervello Hospital, Palermo, Italy.
- Title of the project: “ National Service plan 2013: Establishment of a biobank of oocytes and ovarian tissue for the protection of the reproductive function in patients with cancer and degenerative diseases ”.
- Skills acquired: isolation of perinatal tissue-derived mesenchymal stem cells (WJ-MSCs) by GMP procedure.
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- 7/3/2014-
6/30/2015
- Fellowship as Researcher**
Ospedali Riuniti Villa Sofia-Cervello Hospital in partnership with the Franco e Piera Cutino Foundation, Palermo, Italy. Gene therapy for the treatment of the beta-thalassemia project founded by R.i.Med.RI Regional Network Integrated Clinico-Biological regenerative medicine), Regional Ministry of Industry, Network Sicily CUPG73F12000150004.
- Title of the project: “Evaluation of efficiency of hematopoietic stem cells transduction with lentiviral vectors in the presence of the rapamycin”.

Skills acquired: isolation and separation of CD34+ cells by magnetic beads (Miltenyi), flow cytometer analysis by ISHAGE method, preparation of lentiviral vector, transduction of human hematopoietic stem cells using lentiviral vectors in the absence and in the presence of different doses of the drug (rapamycin), methylcellulose hematopoietic colony assay setup, in vitro erythroid differentiation of selected CD34+ cells and two-phase primary erythroid cell cultures from peripheral blood, real time-PCR.

04/2/13-
04/01/14
Sofia

Term-contract as Researcher with experience in cell biology

Hematology and rare blood diseases division of Ospedali Riuniti Villa

Cervello Hospital, Palermo, Italy.

Title of the project: "The experience of a domiciliary in oncology

Skills acquired: long-term culture of leukemic blasts on WJ-MSCs as feeder layer

02/1/12-
10/20/12

Term-contract as Researcher with experience in cell and molecular biology

Hematology and rare blood diseases division of Ospedali Riuniti Villa Sofia- Cervello Hospital, Palermo, Italy.

Title of the project: The evaluation of the potential of hematopoietic stem cells (CD34 +) after gene transfer with lentiviral vector Thalagen™ "

Skills acquired: immuno-selection and cryopreservation of human hematopoietic stem cells (cd34+) from bone marrow, cord blood and apheresis, preparation of lentiviral vector, transduction of human hematopoietic stem cells using lentiviral vectors, methylcellulose hematopoietic colony assay setup, in vitro erythroid differentiation of selected cd34+ cells and two-phase primary erythroid cell cultures from peripheral blood.

02/1/11-
01/31/2012

Term-contract as Researcher with experience in cell and molecular biology

Hematology and rare blood diseases division of Ospedali Riuniti Villa Sofia- Cervello Hospital, Palermo, Italy.

Title of the project: Innovative strategies for the treatment of hemoglobinopathies

Skills acquired: Titration of lentiviral vectors in Hela and NIH-3T3 cell lines, separation of human mononuclear cells from fresh bone marrow, immuno-selection and cryopreservation of human hematopoietic stem cells (CD34+) from bone marrow and cord blood, transduction of human hematopoietic stem cells (CD34+) using lentiviral vectors

01/1/08-
12/31/10

Term-contract as Researcher with experience in cell and molecular biology

University of Rome

Title of the project: Transplantation in the uterus of hematopoietic stem cell and gene therapy of beta thalassemia

Skill acquired: Titration of lentiviral vectors in Hela and NIH-3T3 cell

lines, separation of human mononuclear cells from fresh bone marrow, immuno-selection and cryopreservation of human hematopoietic stem cells (CD34+) from bone marrow and cord blood, transduction of human hematopoietic stem cells (CD34+) using lentiviral vectors

10/1/04-
09/30/07

Term-contract as Researcher with experience in cell and molecular biology

University of Palermo, Italy

Title of the project: Functional characterization of the sea urchin sns chromatin insulator in erythroid cells”

Skill acquired : RNA and DNA extraction, proteins extraction, RT-PCR, Southern Blotting, cells cultures (K562, MEL, HEL, 3T3), titration of lentiviral vectors in Hela and NIH-3T3 cell lines, transduction of murine erythroleukemic cell lines using lentiviral vectors and induction of erythroid differentiation.

07/01/03-
06/30/04

Term-contract as Researcher with experience in cell and molecular biology

Hematology and rare blood diseases division of Ospedali Riuniti Villa Sofia-Cervello Hospital, Palermo, Italy.

Title of the project: “Analysis and expression of retroviral vectors containing the Beta-Human Globulin gene”

Skill acquired : RNA and DNA extraction, proteins extraction, RT-PCR, , Southern Blotting, cells cultures (K562, MEL, HEL, 3T3), titration of lentiviral vectors in Hela and NIH-3T3 cell lines, transduction of murine erythroleukemic cell lines using lentiviral vectors and induction of erythroid differentiation.

01/09/02-
30/06/03

Term-contract as Researcher with experience in cell and molecular biology

Foundation Franco e Piera Cutino onlus, Villa Sofia Cervello” Hospital, Palermo, Italy.

Title of the project: “Functional characterization of the sea urchin sns chromatin insulator in erythroid cells”

Skill acquired : Molecular cloning, RNA and DNA extraction, proteins extraction, RT-PCR, , Southern Blotting, cells cultures (K562, MEL, HEL, 3T3), titration of lentiviral vectors in Hela and NIH-3T3 cell lines, transduction of murine erythroleukemic cell lines using lentiviral vectors and induction of erythroid differentiation,

PERSONAL SKILLS AND COMPETENCES

Mother tongue(s) Italian

Other language(s) English level B1/2

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
<i>Language</i>	B1/2	B1/2	B1/2	B1/2	B1/2

COMMUNICATION SKILLS

Excellent organizational and interpersonal skills

Excellent interpersonal skills with students acquired during laboratories organized for students at the Villa Sofia Cervello” Hospital, Palermo, Italy

JOB-RELATED SKILLS

Skills in the use electrophoretic techniques: (proteins and DNA extraction kit), thermal cycler, incubator, spectrophotometer, tools for cell culture (laminar flow hood, centrifuges, chamber Burker). Techniques acquired: Molecular cloning, Chip assay, 3C assay, microarray, ELISA, protein extraction, DNA and RNA extraction, PCR, RealTime-PCR and RT-PCR, Southern blotting, two-dimensional electrophoresis, cell cultures, flow cytometry analysis, lentiviral preparation, cells cultures (K562, MEL, HEL, 3T3,32D), titration of lentiviral vectors in Hela and NIH-3T3 cell lines, transduction of murine erythroleukemic cell lines using lentiviral vectors and induction of erythroid differentiation, separation of human mononuclear cells from fresh bone marrow, immuno-selection and cryopreservation of human hematopoietic stem cells (CD34+) from bone marrow, cord blood and G-CSF and G-CSF+plerixafor mobilized peripheral blood, transduction of human hematopoietic stem cells using lentiviral vectors, methylcellulose hematopoietic colony assay setup, in vitro erythroid differentiation of selected CD34+ cells and two-phase primary erythroid cell cultures from peripheral blood, isolation and characterization of human Wharton's jelly-derived MSCs, co-culture between human Wharton's jelly-derived MSCs and hematopoietic stem cells in a contact and non-contact co-culture (transwell system)

COMPUTER SKILLS

Word, Excel, Access, Internet Explorer, adobe photoshop

PUBLICATIONS

Baiamonte E, Acuto S, Di Marzo R, Calzolari R, , Maggio A and Spinelli G.
Functional characterization of the sea urchin sns chromatin insulator in erythroid cells.
B.C.M.D. (2005) 35: 339-344

D'Apolito D., **Baiamonte E.**, Bagliesi M., Di Marzo R., Calzolari R, Ferro L., Franco V., Spinelli G.
Maggio A and Acuto S.
The Sea Urchin sns5 Insulator Protects Retroviral Vectors From Chromosomal Position Effects by
Maintaining Active Chromatin Structure
Molecular Therapy. (2009) 17 n.8 : 1-8

D'Apolito D., **Baiamonte E.**, Bagliesi M., Di Marzo R., Calzolari R, Ferro L., Franco V., Spinelli G.
Maggio A and Acuto S.
The Sea Urchin sns5 Insulator Protects Retroviral Vectors From Chromosomal Position Effects by
Maintaining Active Chromatin Structure
Molecular Therapy. (2009) 17 n.8 : 1-8

Acuto S, Di Marzo R, Calzolari R, D'Apolito D., **Baiamonte E.**, Calzolari R, Bagliesi M., Motta V., Spina
B., Troia A., Franco V., Spinelli G. Maggio A.
Terapia genica delle emoglobinopatie: stato dell'arte.
Rivista Italiana di Medicina dell'Adolescenza (2005) 3 : 55-59

E. Baiamonte, M. Bagliesi, V. Motta, B. Spina, A. Pecoraro.
Development of plasmids for quantitative detection of integrated lentiviral vectors and evaluation of
culture time to perform vector titer by real-time qPCR assay
Thalassemia Report (2014) 4 : 96-98

Acuto S., **E. Baiamonte**, R. Di Stefano, B. Spina, R. Barone and A. Maggio
Development and recent progresses of gene therapy for β -thalassemia
Thalassemia Report (2014) 4 : 90-95

E. Baiamonte, G. Spinelli , A. Maggio, S. Acuto, V. Cavalieri
Sea Urchin sns5 Chromatin Insulator shapes the chromatin architecture of a lentivirus vector
integrated in the mammalian genome.
Nucleic Acid Therapeutics (2016) 26:318-326

Baiamonte E., Di Stefano R., Spina B., Acuto S, Maggio A.
Gene Therapy for β -thalassemia syndromes.
DCTH-Suppl.2012-44-51

Lo Iacono M. Anzalone R., La Rocca G., **Baiamonte E.**, Maggio A., Acuto A.
Wharton's Jelly Mesenchymal Stromal Cells as a feeder layer for the ex vivo expansion
of hematopoietic stem and progenitor cells: a review.
Stem cells review and reports, 2016 DOI 10.1007/s12015-016-9702-4

E. Baiamonte I pazienti talassemici e la terapia genica Unione news: Malattie rare
speciale (2016) n. 8: 11

E. Baiamonte, R. Barone, F. Contino, R. Di Stefano, A. Filosa , E. D'Angelo, S. Feo, S. Acuto, A. Maggio. Granulocyte- colony stimulating factor plus Plerixafor in patients with β -Thalassemia major results in effective mobilization of primitive CD34+ cells with specific gene expression profile *Thalassemia Reports* (2017) 7:63928 (11-17)

Chapter on book

Palla F. Damiani F., Russo. R., Brai M., La Mendola C., Bartolotta, **Baiamonte E.**, Spinelli G. Morphological and transcriptional changes on sea urchin embryos exposed to ELF electromagnetic field. *Proceedings of 2nd International Workshop on Biological effects of EMFs*"- (2002)

ABSTRACTS

Dr. Baiamonte Elena is an author of **several abstracts** to national and international congresses

Date
Palermo,

Signature
Elena Baiamonte