

BIOGRAPHICAL SKETCH

NAME Rosalia Di Stefano Date of Birth: 20/02/1980 Address: San Raffaele Arcangelo,37, Palermo, Italy E-mail: liadistefano80@gmail.com Work phone:+390916802744 Cell phone:+393204106867	POSITION-TITLE Term-contract worker
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INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR (s)	FIELD OF STUDY
University of Palermo, Italy	MS Post-graduate	2004	Molecular biology
Clinica Ospedaliera Universitaria "P. Giaccone"	PhD	2012	"Diagnostic Sciences and Technologies in the Field Biomedical "

Work experience

03/22/2016-
08/15/2017

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 "Rare Diseases: Diagnosis, Therapy and Disease Prevention Rare genetics "

Skills acquired: isolation of perinatal tissue-derived mesenchymal stem cells (WJ-MSCs) and transduction of WJ-MSCs using lentiviral vectors.

09/10/2014-
6/10/2015

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, 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.

12/15/12-
04/27/14

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: "Study of the expression of the main interleukins and of molecular factors involved in the angiogenesis in the cells of the celomatic fluid, amniotic fluid and chorial wilds; and biochemical assay of VEGF, b-FGF, IL8, TNF α , P1GF and PDGFbb factors in Amniotic fluids and maternal serum".

11/09/2010 -
04/02/2012

Term-contract as Researcher with experience in cell biology

University of Palermo

Title of the project: "Efficacy study of new pharmacological agents on increasing the production of fetal hemoglobin in erythroid liquid primary cultures from patients with hemoglobinopathies"

09/08/2008-
09/07/2009

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 "Study of parameters that influence the cell transduction efficiency Human hematopoietic stem cells mediated by lentiviral vectors".

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.

7/17/2007-
07/16/2008

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 "Functional characterization of the sea urchin sns chromatin insulator in erythroid cells"

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

PERSONAL SKILLS AND COMPETENCES

Mother tongue(s) Italian

Other language(s) English level A 2

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
<i>Language</i>	A2	B1	A2	A2	A2

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, microarray, ELISA, protein extraction, DNA and RNA extraction, PCR, RealTime-PCR and RT-PCR, two-dimensional electrophoresis, cell cultures, flow cytometry analysis, lentiviral preparation, cells cultures (K562, MEL, 3T3), titration of lentiviral vectors in Hela and NIH-3T3 cell lines, transduction of human hematopoietic stem cells using lentiviral vectors and induction of erythroid differentiation, separation of human mononuclear cells from fresh bone marrow, immunoselection and cryopreservation of human hematopoietic stem cells (CD34+) from bone marrow, cord blood and G-CSF and G-CSF+plerixafor mobilized peripheral blood, 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, transduction of WJ-MSCs using lentiviral vectors.

Sampling of organs samples (pigs, cattle)

Extracting DNA from the above samples using the King Fisher Kit

RNA extraction from blood samples using the SV Isolation RNA Kit (Promega)

Amplification of RNA fragments by RT-PCR and Nested PCR .

Western blotting, genotyping and mice control. Digestion of plasmid DNA with restriction enzymes, fractionation on gel Of agarose and purification of DNA fragments from gel.

Binding reaction.

Competent cells: preparation and transformation.

Recombinant plasmid analysis: minipreparation of plasmid DNA.

"Colony Hybridization".

Maxpreparation of plasmid DNA.

Amplifying DNA fragments by PCR (Polymerase Chain

Reaction)
Colony PCR.
Microsealings of sea urchin eggs (subsequently fertilized)

COMPUTER SKILLS Word, Excel, Access, Internet Explorer, adobe photoshop

PUBLICATIONS

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

Baiamonte E., **Di Stefano R.**, Spina B., Acuto S, Maggio A.
Gene Therapy for β -thalassemia syndromes.

DCTH-Suppl.2012-44-51

Acuto S, Di Marzo R, Ferro L., Motta V., Pecoraro A., Baiamonte E., Bagliesi M., **Di Stefano L.**,
Orlando V., Troia A. Spina B. Restivo G., Barone r. Maggio M.
Genetic Therapy for Beta-Talassemia: State of the art and challenges it faces in human.
Hematologica 2011 96(s3): 284-287.

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)

ABSTRACTS

Dr. Di Stefano Rosalia is an author of **several abstracts** to national and international
congresses

Date
Palermo,

Signature
Rosalia Di Stefano