

ALLEGATO B

UNIVERSITÀ DEGLI STUDI DI MILANO

selezione pubblica per n. 1 posto di Ricercatore a tempo determinato ai sensi dell'art.24, comma 3, lettera b) della Legge 240/2010 per il settore concorsuale 05/B2, settore scientifico-disciplinare BIO/06, presso il Dipartimento di Bioscienze, (avviso bando pubblicato sulla G.U. n. 93 del 25/11/2016), codice concorso 3447.

Sara Ricciardi

PERSONAL INFORMATION

COGNOME	RICCIARDI
NOME	SARA
DATA DI NASCITA	3 SETTEMBRE 1978

RESEARCH AREAS

Immunology; Neurobiology; Molecular Biology; Biochemistry.

TECHNICAL EXPERTISE

Cloning, transfection, and production of lentiviral vectors and transduction of primary cells;
Isolation, culture and differentiation of primary human T lymphocytes;
Isolation and culture of murine primary cells: embryonic fibroblasts, embryonic mesenchimal stem cells;

Translational control assay: methionine incorporation labeling, polysomal profiles, ribosome profiles;

Metabolic assays in primary cells;

Mouse handling and transgenic mouse colony management;

Immunohistochemistry, immunofluorescence and histochemical staining;

^{32}P , ^{33}P , ^{35}S , ^3H , ^{131}I radioisotope handling;

Good knowledge of software for gene expression analysis (Ingenuity and DAVID software) and image acquisition and analysis (IM500 and Qwin software; Leica).

EDUCATION

2012 PhD in Molecular Medicine, Experimental Neurology section, assessment: “outstanding”
Thesis Title: CDKL5 ensures excitatory synapse stability by reinforcing NGL-1-PSD95 interaction in the postsynaptic compartment and is impaired in patient iPSC-derived neurons
Stem Cells and Neurogenesis Unit
Unit head: Professor Vania Broccoli
San Raffaele Scientific Institute, Milan, Italy

2006 Laurea in “Chimica e Tecnologia Farmaceutiche”
Istituto Pasteur-Fondazione Cenci Bolognetti, Dipartimento di Biochimica
Università degli Studi di Roma “La Sapienza”, Italy

ACCADEMIC APPOINTMENTS

2014 - Postdoctoral fellow
Research topic: translational control in T cells fate and decision
Laboratory of Molecular Histology and Cell Growth
Unit head: Professor Stefano Biffo
National Institute of Molecular Genetics, Milan, Italy

2012 - 2014 Postdoctoral fellow
Research topic: translational control in T cells fate and decision
Laboratory of Molecular Histology and Cell Growth
Unit head: Professor Stefano Biffo
San Raffaele Scientific Institute, Milan, Italy

2009 - 2012 PhD Thesis
Research topic: functional role of CDKL5 in the Hanefeld variant of Rett Syndrome
Stem Cells and Neurogenesis Unit
Unit head: Professor Vania Broccoli
San Raffaele Scientific Institute, Milan, Italy

2008 - 2009 Fellow
Research topic: functional role of CDKL5 in the Hanefeld variant of Rett Syndrome
Stem Cells and Neurogenesis Unit
Unit head: Professor Vania Broccoli
San Raffaele Scientific Institute, Milan, Italy

2007 - 2008 Fellow

Research topic: analysis of protein-protein dimerization using FRET/BRET techniques
Department of Experimental Medicine
Unit head: Professor Marco Parenti
University of Milano-Bicocca, Milan, Italy

2006 - 2007 Fellow

Research topic: study of signaling pathways elicited by the oxytocin receptor (OTR) in neuronal cells
Cellular and Molecular Pharmacology Section
Unit head: Professor Bice Chini
CNR Institute of Neuroscience, Milan, Italy

LANGUAGES

Italian: native
English: fluent

PUBLICATIONS

1. FOXG1 is responsible for the congenital variant of Rett syndrome

Ariani F, Hayek G, Rondinella D, Artuso R, Mencarelli MA, Spanhol-Rosseto A, Pollazzon M, Buoni S, Spiga O, **Ricciardi S**, Meloni I, Longo I, Mari F, Broccoli V, Zappella M, Ranieri A
Am J Hum Genet. 2008 Jul;83(1):89-93

2. CDKL5 influences RNA splicing activity by its association to the nuclear speckle molecular machinery

Ricciardi S, Kilstrup-Nielsen C, Bienvenu T, Jaquette A, Landsberger N, Broccoli V
Hum Mol Genet. 2009 Dec 1;18(23):4590-602

3. Reduced AKT/mTOR signaling and protein synthesis dysregulation in a Rett syndrome animal model

Ricciardi S, Boggio EM, Grosso S, Lonetti G, Forlani G, Stefanelli G, Calcagno E, Morello N, Landsberger N, Biffo S, Pizzorusso T, Giustetto M, Broccoli V
Hum Mol Genet. 2011 Mar 15;20(6):1182-96

4. CDKL5 ensures excitatory synapse stability by reinforcing NGL-1-PSD95 interaction in the postsynaptic compartment and is impaired in patient iPSC-derived neurons

Ricciardi S, Ungaro F, Hambrock M, Rademacher N, Stefanelli G, Brambilla D, Sessa A, Magagnotti C, Bachi A, Giarda E, Verpelli C, Kilstrup-Nielsen C, Sala C, Kalscheuer VM, Broccoli V
Nat Cell Biol. 2012 Sep;14(9):911-23

5. Ribosomes

Ricciardi S and Loreni F

A. Parsyan (ed.), Translation and Its Regulation in Cancer Biology and Medicine,
DOI 10.1007/978-94-017-9078-9 11, © Springer Science Business Media Dordrecht 2014

6. eIF6 anti-association activity is required for ribosome biogenesis, translational control and tumor progression

Brina D, Miluzio A, **Ricciardi S**, Biffo S

Biochim Biophys Acta. 2015 Jul;1849(7):830-835

7. eIF6 coordinates insulin sensitivity and lipid metabolism by coupling translation to transcription

Brina D, Miluzio A, **Ricciardi S**, Clarke C, Davidsen PK, Viero G, Tebaldi T, Offenhäuser N, Rozmann J, Rathkolb B, Neschen S, Klingenspor M, Wolf E, Gailus-Durner V, Fuchs H, Hrabe de Angelis M, Quattrone A, Falciani F and Biffo S

Nat Commun. 2015 Sep 18;6:8261

8. Eukaryotic translation initiation factor 6 is a novel regulator of reactive oxygen species-dependent megakaryocyte maturation

Ricciardi S, Miluzio A, Brina D, Clarke K, Bonomo M, Aiolfi R, Guidotti LG, Falciani F, Biffo S

J Thromb Haemost. 2015 Nov;13(11):2108-18

9. Expression and Activity of eIF6 trigger Malignant Pleural Mesothelioma growth in vivo

Miluzio A, Oliveto S, Pesce E, Mutti L, Murer B, Grosso S, **Ricciardi S**, Brina D, Biffo S

Oncotarget 2015 Nov 10;6(35):37471-85

10. CDKL5 and Shootin1 Interact and Concur in Regulating Neuronal Polarization

Nawaz MS, Giarda E, Bedogni F, La Montanara P, **Ricciardi S**, Ciceri D, Alberio T, Landsberger N, Rusconi L, Kilstup-Nielsen C

PLoS One. 2016 Feb 5;11(2):e0148634

11. mTORC1-mediated inhibition of polycystin-1 expression drives renal cyst formation in tuberous sclerosis complex

Pema M, Drusian L, Chiaravalli M, Castelli M, Yao Q, **Ricciardi S**, Somio S, Quian F, Biffo S and Boletta A

Nat Commun. 2016 Mar 2;7:10786

12. Translational control by mTOR independent routes: how eIF6 organizes metabolism

Miluzio A, **Ricciardi S**, Alfieri R, Manfrini N, Oliveto S, Brina D, Biffo S

Biochem Soc Trans. 2016 Dec 15;44(6):1667-1673

13. SBDS-deficient Cells Have an Altered Homeostatic Equilibrium due to Translational Inefficiency which Explains their Reduced Fitness and Provides a Logical Framework for Intervention

Calamita P, Miluzio A, Russo A, Pesce E, **Ricciardi S**, Kham F, Cheroni C, Alfieri R, Mancino M, Gorrini C, Rossetti G, Peluso I, Pagani M, Medina DL, Rommens J and Biffo S

Plos Genetics, accepted

ORAL PRESENTATIONS

“G-protein coupling specificity of the human oxytocin receptor: role in differential signalling pathway activation”

FISV IX Annual Congress

Riva del Garda, Italy, September 26-29 2007

“Cellular Localization and Dynamics of CDKL5 Protein: In Vivo Analysis and In Vitro Functional Assessment”

1st European Congress on Rett Syndrome

Milan, Italy, June 5-7 2009

“CDKL5 promotes excitatory synapse formation by reinforcing NGL-PSD95 interaction on the post-synaptic compartment”

The Synapse: from Physiology to Pathology Gordon Conference Series

Stresa, Italy, September 4-7 2011

“CDKL5 promotes excitatory synapse formation by reinforcing NGL-PSD95 interaction on the post-synaptic compartment”

SYNAPTIC BASIS OF DISEASE

Geneva, July 11-13 2012

“Translational control regulates the fate of human CD4⁺ T lymphocytes”

INGM - Policlinico 3rd Research Day

Milan, November 16 2016

POSTER PRESENTATIONS

G-protein coupling specificity of the human oxytocin receptor: role in differential signalling pathway activation

Reversi A, Ricciardi S, Gales C, Bouvier M, Chini B

V Incontro dell'Istituto di Neuroscienze

Cagliari, Italy, June 3-5 2007

Cellular Localization and Dynamics of CDKL5 Protein: In Vivo Analysis and In Vitro Functional Assessment

Ricciardi S, Landsberger N, Broccoli V

hSR Scientific Retreat

Stresa, Italy, February 19-21 2009

Cellular Localization and Dynamics of CDKL5 Protein: In Vivo Analysis and In Vitro Functional Assessment

Ricciardi S, Landsberger N, Broccoli V

1st European Congress on Rett Syndrome

Milan, June 5-7 2009

Cdk5 influences RNA splicing activity by its association to the nuclear speckle molecular machinery

Ricciardi S, Kilstrup-Nielsen C, Bienvenue T, Landsberger N, Broccoli V

European working group on Rett Syndrome

Stresa, Italy, September 17-19 2009

Reduced AKT/mTOR signaling and protein synthesis dysregulation in a Rett syndrome animal model

Ricciardi S, Grosso S, Stefanelli G, Landsberger N, Biffo S, Kalscheuer V, Broccoli V

2nd European Rett Syndrome Conference

Edimburg, Scotland, October 7-9 2010

Translation acts upstream of transcription, in vivo

Brina D, Miluzio A, **Ricciardi S**, Clarke K, Offenhäuser N, Falciani F, Biffo S

Protein Synthesis and Translational Control

Heidelberg, Germany, September 8-12, 2013

RACK1 binding to the ribosome is required to regulate the translational efficiency of specific mRNAs

Gallo S, **Ricciardi S**, Maffioli E, Mancino M, Tedeschi G, Biffo S

Translation-UK

Leicester, UK, July 21-22 2014

eIF6-deficient mice exhibit thrombocytopenia due to a defect in polyploidization and maturation of megakaryocytes

Ricciardi S, Miluzio A, Brina D, Clarke K, Bonomo M, Aiolfi R, Guidotti LG, Falciani F, Biffo S

FEBS EMBO Conference

Paris, France, August 30 - September 4 2014

RACK1 binding to the ribosome is required to regulate the translational efficiency of specific mRNAs

Gallo S, **Ricciardi S**, Maffioli E, Mancino M, Tedeschi G, Biffo S

FEBS EMBO Conference

Paris, France, August 30 - September 4 2014

The translational branch of insulin orchestrates metabolic adaptation

Brina D, Miluzio A, **Ricciardi S**, Clarke K, Viero G, Tebaldi T, Offenhäuser N, Quattrone A, Falciani F, Biffo S

Germany 2nd Annual Helmholtz-Nature Medicine Diabetes Conference - Round table presentation

Munich, Germany, September 20-22 2014

The translational branch of insulin drives lipogenesis through eIF6

Brina D, Miluzio A, **Ricciardi S**, Clarke K, Viero G, Tebaldi T, Offenhäuser N, Quattrone A, Falciani F, Biffo S

Giornata della Ricerca - INGM

Milan, Italy, November 5 2014

Quantitative profiling of initiating ribosomes in primary human CD4⁺ Th1 cells

Ricciardi S, Manfrini N, Gruarin P, Rossetti G, Bonnal R, Abrignani S, Pagani M, and Biffo S
EMBO conference "Protein Synthesis and translational control"
Heidelberg, Germany, September 9-13 2015

Translational control of human CD4⁺ T lymphocytes fate and decision

Ricciardi S, Manfrini N, Alfieri R, Gallo S, Gruarin P, Massimiliano P, Abrignani S, Biffo S
EMBO Conference "Lymphocyte Antigen Receptor Signaling"
Certosa di Pontignano, Italy, September 3 - 7 2016

Translational control of human CD4⁺ T lymphocytes fate and decision

Ricciardi S, Manfrini N, Alfieri R, Gallo S, Gruarin P, Massimiliano P, Abrignani S, Biffo S
Translational control conference
Cold Spring Harbor, USA, September 6 - 10 2016

Data

9/1/2017

Luogo

Milano