

DICHIARAZIONI SOSTITUTIVE DI CERTIFICAZIONI

(art. 46 D.P.R. n. 445/2000)

DICHIARAZIONI SOSTITUTIVE DELL'ATTO DI NOTORIETÀ

(art. 47 D.P.R. n. 445/2000)

La sottoscritta

COGNOME Ludovico

NOME Alessandra

Visto il D.P.R. 28 dicembre 2000, n. 445 concernente "T.U. delle disposizioni legislative e regolamentari in materia di documentazione amministrativa" e successive modifiche ed integrazioni;

Vista la Legge 12 novembre 2011, n. 183 ed in particolare l'art. 15 concernente le nuove disposizioni in materia di certificati e dichiarazioni sostitutive (*);

Consapevole che, ai sensi dell'art.76 del DPR 445/2000, le dichiarazioni mendaci, la falsità negli atti e l'uso di atti falsi sono punite ai sensi del Codice penale e delle leggi speciali vigenti in materia, dichiara sotto la propria responsabilità:

*che quanto dichiarato nel seguente curriculum vitae et studiorum
comprensivo delle informazioni sulla produzione scientifica
corrisponde a verità*

CURRICULUM VITAE ET STUDIORUM

EUROPEAN CURRICULUM VITAE FORMAT



PERSONAL INFORMATION

Name **ALESSANDRA LUDOVICO**

WORK EXPERIENCE

- Dates (from – to) July 2019 - Present
- Name and address of employer National Research Council (CNR) - Biophysics institute, Genoa
- Type of business or sector Research – POR FSE Liguria 2014-2020 RLOF18ASSRIC/71/1
- Occupation or position held Project: In vitro epithelial models for chemical compounds screening
Research assistant
- Main activities and responsibilities Epithelial cell culture (CALU-3, CFPAC1, PANC1, T84, HBE); experiments based on testing chemical compounds on epithelium, statistical analysis.
Micro-rheology studies (Multiple-Particle-Tracking), video processing and data analysis with ImageJ and IgorPro;
Dot Blot

- Dates (from – to) October 2017- March 2019
- Name and address of employer National Research Council (CNR) - Biophysics institute, Genoa
- Type of business or sector Research - H2020 project: TAT-CF, ID 667079. Novel therapeutic approaches for the treatment of cystic fibrosis based on small molecule transmembrane anion transporters. PI Dr. Oscar Moran
- Occupation or position held Fellowship
- Main activities and responsibilities Epithelial cell culture (CALU-3, CFBE, FRT), osmolarity, TEER and ASF thickness measurements;
protein determination in airway mucus (Bradford method);
immunohistochemistry;
cell viability experiments and apoptosis detection with confocal microscope.
spectrophotometric analysis;
plate reader measurements,

- Dates (from – to) April 2017- October 2017
- Name and address of employer National Research Council (CNR) - Biophysics institute, Genoa
- Type of business or sector Research - H2020 project: TAT-CF, ID 667079. Novel therapeutic approaches for the treatment of cystic fibrosis based on small molecule transmembrane anion transporters. PI Dr. Oscar Moran
- Occupation or position held Post- graduate internship
- Main activities and responsibilities Mammalian cell culture (CHO, HEK), immunocytochemistry, co-localization analysis and apoptosis detection with confocal microscope, image processing with Gimp and Imagej, spectrofluorimetric analysis

- Dates (from – to) April 2014- October 2016
- Name and address of employer University of Genoa, School of Medical and Pharmaceutical Sciences, Department of Pharmaceutics
- Type of business or sector Biochemistry Laboratory
- Occupation or position held Internship student, thesis activity
- Main activities and responsibilities Platelets isolation from whole blood; agonist-induced platelet aggregation tests

- Dates (from – to) July 2015- September 2015
- Name and address of employer Farmacia San Giacomo, Via Nino Bixio 5 A/R, Genoa
- Type of business or sector Pharmacy
- Occupation or position held Warehouse worker, shop assistant
- Main activities and responsibilities Warehouse management, pharmaceutical compounding

- Dates (from – to) June 2010-July 2010; March 2015- June 2015
- Name and address of employer Farmacia San Giacomo, Via Nino Bixio 5 A/R, Genoa
- Type of business or sector Pharmacy
- Occupation or position held Internship student
- Main activities and responsibilities Warehouse management, pharmaceutical compounding

EDUCATION AND TRAINING

- Dates (from – to) November 2016
- Name and type of organisation providing education and training University of Genoa, School of Medical and Pharmaceutical Sciences, Department of Pharmaceutics
- Title of qualification awarded Qualified Pharmacist
- Level in national classification 257/300

- Dates (from – to) 2008/2009 – 2015/2016
- Name and type of organisation providing education and training University of Genoa, School of Medical and Pharmaceutical Sciences, Department of Pharmaceutics
- Title of qualification awarded Master's degree in Pharmaceutical Chemistry and Technology (Laurea specialistica a ciclo unico)
- Level in national classification 95/110. Thesis title: "The molecular mechanisms involved in lectin-induced platelet aggregation"

- Dates (from – to) 2003/2004 – 2007/2008
- Name and type of organisation providing education and training Liceo Scientifico G.D. Cassini
- Title of qualification awarded Secondary School Diploma in scientific studies
- Level in national classification 67/100

PERSONAL SKILLS**AND COMPETENCES**

Acquired in the course of life and career but not necessarily covered by formal certificates and diplomas.

MOTHER TONGUE

ITALIAN

OTHER LANGUAGES**ENGLISH**

Listening		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C1	C1	B2	B2	B2

TECHNICAL SKILLS**AND COMPETENCES**

With computers, specific kinds of equipment, machinery, etc.

Ability to work in clean room, chemistry and biochemistry laboratory.

Proficient use of confocal and fluorescence microscopes, spectrophotometer, plate reader.

Ability to use Windows and Ubuntu; Office; ImageJ.

Data analysis with IgorPro.

Basic use of Python. EdX Certification: "PY0101EN IBM Python basics for data science" and "DA0101EN IBM Analyzing data with python"

SOCIAL SKILLS**AND COMPETENCES**

Living and working with other people, in multicultural environments, in positions where communication is important and situations where teamwork is essential (for example culture and sports), etc.

Ability to work in team and alone. Good communication skills.

PUBLICATIONS

Int. J. Mol. Sci. 2020, 21, 1488; doi:10.3390/ijms21041488

Small Molecule Anion Carriers Correct Abnormal Airway Surface Liquid Properties in Cystic Fibrosis Airway Epithelia

Ambra Gianotti, Valeria Capurro, Livia Delpiano, Marcin Mielczarek, María García-Valverde, Israel Carreira-Barral, Alessandra Ludovico, Michele Fiore, Debora Baroni, Oscar Moran, Roberto Quesada and Emanuela Caci.

British Journal of Pharmacology- 019 Jun; 176(11):1764-1779. doi: 10.1111/bph.14649. Epub 2019 Apr 23.

Small molecule-facilitated anion transporters in cells for a novel therapeutic approach to cystic fibrosis.

Fiore M¹, Cossu C¹, Capurro V², Picco C¹, Ludovico A¹, Mielczarek M³, Carreira-Barral I³, Caci E², Baroni D¹, Quesada R³, Moran O¹.

1 Istituto di Biofisica, CNR, Genova, Italy.

2 U.O.C. Genetica Medica, Istituto Giannina Gaslini, Genova, Italy.

3 Departamento de Química, Facultad de Ciencias, Universidad de Burgos, Burgos, Spain

ABSTRACTS

Authors: María García-Valverde, Israel Carreira-Barral, Marcin Mielczarek, Ambra Gianotti, Valeria Capurro, Livia Delpiano, Alessandra Ludovico, Vanessa Soto-Cerrato, Ricardo Pérez-Tomás, Debora Baroni, Oscar Moran, Emanuela Caci, Roberto Quesada.
Title: Anion-selective transmembrane carriers at work: studies in airway epithelium models.
Congress: VGEQB ChemBio Group Meeting - Poster presentation; Granada, February 19-21, 2020.
Publication: Book of Abstracts, p. 110 (P40/C54)

Authors: Roberto Quesada, Maria Garcia-Valverde, Israel Carreira-Barral, Marcin Mielczarek, Ambra Gianotti, Valeria Capurro, Livia Delpiano, Alessandra Ludovico, Vanessa Soto-Cerrato, Ricardo Pérez-Tomás, Debora Baroni, Oscar Moran, Emanuela Caci.
Title: Biologically active small molecule anion transporters
Congress: 14th International Symposium on Macrocyclic and Supramolecular Chemistry – Poster ; Lecce (Italy), 2-6 June 2019
Publication: Libro Abstracts, POSTER-386

Authors: Maria Garcia-Valverde, Israel Carreira-Barral, Marcin Mielczarek, Ambra Gianotti, Valeria Capurro, Livia Delpiano, Alessandra Ludovico, Vanessa Soto-Cerrato, Ricardo Pérez-Tomás, Debora Baroni, Oscar Moran, Emanuela Caci, Roberto Quesada.
Title: Biologically active small molecule anion transporters
Congress: XXXVII REUNIÓN BIENAL DE LA REAL SOCIEDAD ESPAÑOLA DE QUÍMICA - Oral communication ; San Sebastián (Spain), 26-30 May 2019
Publication: Libro Abstracts, S1 OC5

Authors: Ambra Gianotti , Valeria Capurro, Livia Delpiano, Marcin Mielczarek, Israel Carreira-Barral, Maria Garcia-Valverde, Roberto Quesada, Alessandra Ludovico, Debora Baroni, Oscar Moran, Emanuela Caci.
Title: Novel therapeutic approaches based on small molecule transmembrane anion transporters to improve the mucociliary properties of cystic fibrosis airway epithelia
Congress: 16th ECFS 2019 Basic Science Conference – Dubrovnik (Croatia), 27-30 March 2019

FIRMA(**)

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() ai sensi dell'art. 15, comma 1 della Legge 12/11/2011, n. 183 le certificazioni rilasciate dalla P.A. in ordine a stati, qualità personali e fatti sono valide e utilizzabili solo nei rapporti tra privati; nei rapporti con gli Organi della Pubblica Amministrazione e i gestori di pubblici servizi, i certificati sono sempre sostituiti dalle dichiarazioni sostitutive di certificazione o dall'atto di notorietà di cui agli artt. 46 e 47 del DPR 445/2000*