Europass Curriculum Vitae

Personal information

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Nationality	Italian

Occupational field

Professor (Associate) (SSD: FIS/07) Department of Molecular Medicine
Faculty of Pharmacy and Medicine, University of Rome 'La Sapienza'

Work experience

Dates	2006-2007
Occupation or position held	Temporary Research Associate
Main activities and responsibilities	Research and teaching
Name and address of employer	Department of Chemistry, University of Rome 'La Sapienza'
Sector	CHIM/02
Dates	2003-2006
Occupation or position held	Temporary Research Associate
Main activities and responsibilities	Research and teaching
Name and address of employer	Department of Physics, University of Rome 'La Sapienza'
Sector	CHIM/02

Education and training

Dates	2000-2003
Title of qualification awarded	PhD
Name and type of organisation providing education and training	University of Rome 'La Sapienza'
Dates	1993-1999
Title of qualification awarded	Master's Degree in Physics
Name and type of organisation providing education and training	University of Rome 'La Sapienza'

Personal skills and competences

Mother tongue(s) **Italian**

Other language(s)

Self-assessment	Understanding				Speaking				Writing	
European level (*)	Listening		Reading		Spoken interaction		Spoken production			
English	C1	Proficient User	C2	Proficient User	B2	Independent User	C1	Proficient User	C2	Proficient User

(*) Common European Framework of Reference for Languages

Annexes

Scientific Publication

1 Caputo D., Papi M., Coppola R., Palchetti S., Digiacomo L., Caracciolo G., Pozzi D. Manipulation of lipoplex concentration at the cell surface boosts transfection efficiency in hard-to-transfect cells.

Nanoscale. 2017; 7: 13958-13966. I.F.: 7.76

2 Palchetti S.,Pozzi D., Marchini C., Amici A., Andreani C., Bartolacci C., Digiacomo, L., Gambini V., Cardarelli F., Di Rienzo C., Peruzzi G., Amenitsch H., Palermo R., Screpanti I., Caracciolo G.

Manipulation of lipoplex concentration at the cell surface boosts transfection efficiency in hard-to-transfect cells.

Nanomedicine: Nanotechnology, Biology and Medicine. 2017; 13: 681–691. I.F.: 5.671

3 Caracciolo G., Farokhzad O.C., Mahmoudi M.

Biological Identity of Nanoparticles In Vivo: Clinical Implications of the Protein Corona.

Trends in Biotechnology. 2017; 35: 257-264. I.F.: 12.065

4 Palchetti S., Digiacomo L., Pozzi D., Peruzzi G., Micarelli E., Mahmoudi M., Caracciolo G.

Nanoparticles-cell association predicted by protein corona fingerprints.

Nanoscale. 2016; 8: 12755-12763. I.F.: 7.76

5 Palchetti S., Pozzi D., Mahmoudi M., Caracciolo G.

Exploitation of nanoparticle–protein corona for emerging therapeutic and diagnostic applications.

Journal of Material Chemistry B. 2016; 4: 4376-4381. I.F.: 4.872

6 Bigdeli A., Palchetti S., Pozzi D., Reza Hormozi-Nezhad M., Baldelli Bombelli F., Caracciolo G., Mahmoudi M.

Exploring Cellular Interactions of Liposomes Using Protein Corona Fingerprints and Physicochemical Properties.

ACS Nano. 2016; 10: 3723–3737. I.F.: 13.334

7 Digiacomo L., Digman M. A., Gratton E., Caracciolo G.

Development of an image Mean Square Displacement (iMSD)-based method as a novel approach to study the intracellular trafficking of nanoparticles.

Acta Biomaterialia. 2016;42: 189-198. I.F.: 6.008

8 Colapicchioni V., Tilio M., Digiacomo L., Gambini V., Palchetti S., Marchini C., Pozzi D., Occhipinti S., Amici A., Caracciolo G.

Personalized liposome–protein corona in the blood of breast, gastric and pancreatic cancer patients.

The International Journal of Biochemistry & Cell Biology. 2016; 75: 180-187. I.F.: 3.905

9 Palchetti S., Colapicchioni V., Digiacomo L., Caracciolo G., Pozzi D., Capriotti A.L., La Barbera G., Laganà A.

The protein corona of circulating PEGylated liposomes.

Biochimica et Biophysica Acta (BBA) – Biomembranes. 2016; 1858: 189-196. I.F.: 3.687

10 Caracciolo G., Palchetti S., Colapicchioni V., Digiacomo L., Pozzi D., Capriotti A. L., La Barbera G., Laganà A.

Stealth Effect of Biomolecular Corona on Nanoparticle Uptake by Immune Cells.

Langmuir. 2015; 31: 10764–10773. I.F.: 3.993

11 Colapicchioni V., Palchetti S., Pozzi D., Marini E. S., Riccioli A., Ziparo E., Papi M., Amenitsch H., Caracciolo G.

Killing cancer cells using nanotechnology: novel poly(I:C) loaded liposome–silica hybrid nanoparticles.

Journal of Material Chemistry B. 2015; 3: 7408-7416. I.F.: 4.872

12 Pozzi D., Caracciolo G., Digiacomo L., Colapicchioni V., Palchetti S., Capriotti A. L., Cavaliere C., Zenezini Chiozzi R., Puglisi A., Laganà A.

The biomolecular corona of nanoparticles in circulating biological media.

Nanoscale. 2015; 7: 13958-13966. I.F.: 7.76

13 Caracciolo G

Liposome-protein corona in a physiological environment: Challenges and opportunities for targeted delivery of nanomedicines

Nanomedicine: Nanotechnology, Biology, and Medicine. 2015; 11: 543-557. I.F.: 5.671

14 Caracciolo G., Pozzi D., Capriotti A. L., Cavaliere C., Piovesana S., Amenitsch H., Laganà A.

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RSC Advances. 2015; 5: 5967-5975. I.F.: 3.289

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Colloids and Surfaces B: Biointerfaces. 2014; 123: 673-678. I.F.: 3.902

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The liposome–protein corona in mice and humans and its implications for in vivo delivery.

Journal of Material Chemistry B. 2014; 2: 7419-7428. I.F.: 4.872

17 Pozzi D., Marchini C., Cardarelli F., Salomone F., Coppola S., Montani M., Elexpuru Zabaleta M., Digman M. A., Gratton E., Colapicchioni V., Caracciolo G.

Mechanistic evaluation of the transfection barriers involved in lipid-mediated gene delivery: Interplay between nanostructure and composition.

Biochimica et Biophysica Acta (BBA) – Biomembranes. 2014; 1838: 957-967. I.F.: 3.687

18 Pozzi D., Colapicchioni V., Caracciolo G., Piovesana S., Capriotti A.L., Palchetti S., De Grossi S., Riccioli A., Amenitsch H., Laganà A.

Effect of polyethyleneglycol (PEG) chain length on the bio–nano-interactions between PEGylated lipid nanoparticles and biological fluids: from nanostructure to uptake in cancer cells.

Nanoscale. 2014; 6: 2782-2792. I.F.: 7.76

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Selective targeting capability acquired with a protein corona adsorbed on the surface of 1,2-dioleoyl-3-trimethylammonium propane/dna nanoparticles

ACS Applied Materials & Interfaces. 2013; 5: 13171-13179. I.F.: 7.145

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Mechanistic Understanding of Gene Delivery Mediated by Highly Efficient Multicomponent Envelope-Type Nanoparticle Systems.

Molecular Pharmaceutics. 2013; 10: 4654-4665. I.F.: 4.342

21 Pozzi D., Marchini C., Cardarelli F., Bifone A., Garulli C., Caracciolo G.

Transfection efficiency boost of cholesterol-containing lipoplexes.

Biochimica et Biophysica Acta (BBA) – Biomembranes. 2012; 1818: 2335-2343. I.F.: 3.687

22 Cardarelli F., Pozzi D., Bifone A., Marchini C., Caracciolo G.

Cholesterol-dependent macropinocytosis and endosomal escape control the transfection efficiency of lipoplexes in CHO Living Cells.

Molecular Pharmaceutics. 2012; 9: 334-340. I.F.: 4.342

23 Caracciolo G., Pozzi D., Capriotti A. L., Cavaliere C., Foglia P., Amenitsch H., Laganà A.

Evolution of the protein corona of lipid gene vectors as a function of plasma concentration.

Langmuir. 2011; 27: 15048–15053. I.F.: 3.993

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Factors determining the superior performance of lipid/DNA/protammine nanoparticles over lipoplexes.

Journal of Medicinal Chemistry. 2011; 54: 4160-4171. I.F.: 5.589

25 Pozzi D., Caminiti R., Marianecci C., Carafa M., Santucci E., Candeloro De Sanctis S., Caracciolo G.

Effect of cholesterol on the formation and hydration behavior of solid-supported niosomal membranes.

Langmuir. 2010; 26: 2268-2273. I.F.: 3.993

26 Pozzi D., Caracciolo G., Caminiti R., Candeloro De Sanctis S., Amenitsch H., Marchini C., Montani M., Amici A.

Toward the rational design of lipid gene vectors: shape coupling between lipoplex and anionic cellular lipids controls the phase evolution of lipoplexes and the efficiency of DNA release.

ACS Applied Materials & Interfaces. 2009; 1: 2237–2249. I.F.: 7.145

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The Journal of Physical Chemistry B. 2008; 112: 11298–11304. I.F.: 3.187

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Biochimica et Biophysica Acta (BBA) – Biomembranes. 2007; 1768: 2280-2292. I.F.: 3.687

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Observation of a rectangular DNA superlattice in the liquid-crystalline phase of cationic lipid/DNA complexes.

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Multicomponent cationic lipid-DNA complex formation: role of lipid mixing.

Langmuir. 2005; 21: 11582-11587. I.F.: 3.993

Firmato

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