



## Europass Curriculum Vitae

### Personal information

First name(s) / Surname(s) **Chiara Di Meo**

Address(es) Department of Drug Chemistry and Technologies, "Sapienza" University of Rome, P.le Aldo Moro 5, 00185 Rome, Italy

Telephone(s) +390649913961/3300 Mobile:

E-mail chiara.dimeo@uniroma1.it

Nationality Italian

Date of birth Xxxxx xx, xxxx

Gender female

**Occupational field** Pharmaceutical Technology

### Work experience

Dates	December 29, 2018 – <i>actual position</i>
Occupation or position held	Associate Professor ssd: CHIM/09
Main activities and responsibilities	Synthesis and physico-chemical characterization of polysaccharide-based nanohydrogels suitable as advanced drug delivery systems
Name and address of employer	Department of Drug Chemistry and Technologies, Faculty of Pharmacy and Medicine, "Sapienza" University of Rome
Sector	Academic, Pharmaceuticals
Dates	December 30, 2015 – December 29, 2018
Occupation or position held	Fixed-term researcher (RTD-B, L. 240/2010) ssd: CHIM/09
Main activities and responsibilities	Synthesis and physico-chemical characterization of polysaccharide-based nanohydrogels suitable as advanced drug delivery systems
Name and address of employer	Department of Drug Chemistry and Technologies, Faculty of Pharmacy and Medicine, "Sapienza" University of Rome
Sector	Academic, Pharmaceuticals
Dates	October 1, 2014 – December 28, 2015
Occupation or position held	Post-doc fellow
Main activities and responsibilities	Synthesis and physico-chemical characterization of innovative polysaccharide derivatives for the development of bulk hydrogels and nanohydrogels suitable as advanced drug delivery systems
Name and address of employer	Department of Drug Chemistry and Technologies, Faculty of Pharmacy and Medicine, "Sapienza" University of Rome
Sector	Academic, Pharmaceuticals

Dates	October 1, 2011 – September 30, 2014
Name and address of employer	Fixed-term researcher (RTD-Moratti, L. 230/2005) ssd: CHIM/09
Sector	Synthesis and physico-chemical characterization of innovative polysaccharide derivatives for the development of bulk hydrogels and nanohydrogels suitable as advanced drug delivery systems
Name and address of employer	Department of Drug Chemistry and Technologies, Faculty of Pharmacy and Medicine, "Sapienza" University of Rome
Sector	Academic, Pharmaceuticals
Dates	April 1, 2009 – March 30, 2010
Occupation or position held	Post-doc fellow
Main activities and responsibilities	Development and physico-chemical characterization of nanoparticles based on squalene-benzylpenicillin derivatives and evaluation of their biological activity in the treatment of intracellular bacterial infections.
Name and address of employer	UMR CNRS 8612 (Physico-Chimie - Pharmacotechnie – Biopharmacie) laboratory, Faculty of Pharmacy, University of Paris-Sud XI
Sector	Academic, Pharmaceuticals
Dates	July 1, 2007 – June 30, 2010
Occupation or position held	Post-doc fellow
Main activities and responsibilities	Polysaccharide derivatization and physico-chemical characterization for the development of advanced devices suitable for drug delivery (hydrogels, microspheres, nanohydrogels)
Name and address of employer	Department of Drug Chemistry and Technologies, Faculty of Pharmacy and Medicine, "Sapienza" University of Rome
Sector	Academic, Pharmaceuticals
Dates	January 7, 2006 – June 30, 2007
Occupation or position held	External Collaborator for Fidia Farmaceutici SpA at the Dept. of Chemistry, "Sapienza" University
Main activities and responsibilities	Development and characterization of new hyaluronan derivatives for drug targeting in anticancer therapies
Name and address of employer	Fidia Farmaceutici SpA, Abano Terme (PD), Italy and Department of Chemistry, "Sapienza" University of Rome
Sector	R&D, Academic

## Education and training

Dates	March 8, 2007
Title of qualification awarded	Ph.D. in Industrial Chemical Processes
Name and type of organisation providing education and training	Department of Chemistry, "Sapienza" University of Rome
Dates	December 19, 2002
Title of qualification awarded	Degree in Industrial Chemistry (110/110 cum laude)
Name and type of organisation providing education and training	Department of Chemistry, "Sapienza" University of Rome

## Personal skills and competences

- Synthesis and physico-chemical characterization of polysaccharide hydrogels for their use as "drug delivery systems" (DDS) and as scaffolds for tissue engineering
- Development of hydrophobic derivatives of polysaccharides as matrices for self-assembling nanogels
- Synthesis and physico-chemical characterization of polymeric prodrugs

Mother tongue(s) **Italian**

Other language(s)

Self-assessment

European level (\*)

**English**

**French**

<b>Understanding</b>		<b>Speaking</b>		<b>Writing</b>
Listening	Reading	Spoken interaction	Spoken production	
B2	C1	B2	B2	B2
C1	C1	B2	B2	B2

(\*) [Common European Framework of Reference for Languages](#)

Scientific Publication

1. Di Meo, C., Martínez-Martínez, M., Coviello, T., Bermejo, M., Merino, V., Gonzalez-Alvarez, I., Gonzalez-Alvarez, M., Matricardi, P.  
Long-circulating hyaluronan-based nanohydrogels as carriers of hydrophobic drugs  
(2018) *Pharmaceutics*, 10 (4), art. no. 213  
DOI: 10.3390/pharmaceutics10040213 IF = 3.746 (2017)
2. Montanari, E., Oates, A., Di Meo, C., Meade, J., Cerrone, R., Francioso, A., Devine, D., Coviello, T., Mancini, P., Mosca, L., Matricardi, P.  
Hyaluronan-Based Nanohydrogels for Targeting Intracellular S. Aureus in Human Keratinocytes  
(2018) *Advanced Healthcare Materials*, 7 (12), art. no. 1701483,  
DOI: 10.1002/adhm.201701483 IF = 5.609 (2017)
3. Manconi, M., Manca, M.L., Caddeo, C., Cencetti, C., di Meo, C., Zoratto, N., Nacher, A., Fadda, A.M., Matricardi, P.  
Preparation of gellan-cholesterol nanohydrogels embedding baicalin and evaluation of their wound healing activity  
(2018) *European Journal of Pharmaceutics and Biopharmaceutics*, 127, pp. 244-249.  
DOI: 10.1016/j.ejpb.2018.02.015 IF = 4.491 (2017)
4. Musazzi, U.M., Cencetti, C., Franzé, S., Zoratto, N., Di Meo, C., Procacci, P., Matricardi, P., Cilurzo, F.  
Gellan Nanohydrogels: Novel Nanodelivery Systems for Cutaneous Administration of Piroxicam  
(2018) *Molecular Pharmaceutics*, 15 (3), pp. 1028-1036.  
DOI: 10.1021/acs.molpharmaceut.7b00926 IF = 4.556 (2017)
5. Montanari, E., Di Meo, C., Oates, A., Coviello, T., Matricardi, P.  
Pursuing intracellular pathogens with hyaluronan. From a 'pro-infection' polymer to a biomaterial for 'trojan horse' systems  
(2018) *Molecules*, 23 (4), art. no. 939.  
DOI: 10.3390/molecules23040939 IF = 3.098 (2017)
6. Di Turo, F., Matricardi, P., Di Meo, C., Mazzei, F., Favero, G., Zane, D.  
PVA hydrogel as polymer electrolyte for electrochemical impedance analysis on archaeological metals  
(2018) *Journal of Cultural Heritage*, Article in Press.  
DOI: 10.1016/j.culher.2018.09.017 IF = 1.706 (2017)
7. Zuluaga, M., Gregnanin, G., Cencetti, C., Di Meo, C., Gueguen, V., Letourneur, D., Meddahi-Pellé, A., Pavon-Djavid, G., Matricardi, P.  
PVA/Dextran hydrogel patches as delivery system of antioxidant astaxanthin: A cardiovascular approach  
(2018) *Biomedical Materials (Bristol)*, 13 (1), art. no. 015020.  
DOI: 10.1088/1748-605X/aa8a86 IF = 2.897 (2017)
8. Manzi, G., Zoratto, N., Matano, S., Sabia, R., Villani, C., Coviello, T., Matricardi, P., Di Meo, C.  
"Click" hyaluronan based nanohydrogels as multifunctionalizable carriers for hydrophobic drugs  
(2017) *Carbohydrate Polymers*, 174, pp. 706-715.  
DOI: 10.1016/j.carbpol.2017.07.003 IF = 5.158
9. Montanari, E., Di Meo, C., Sennato, S., Francioso, A., Marinelli, A.L., Ranzo, F., Schippa, S., Coviello, T., Bordi, F., Matricardi, P.  
Hyaluronan-cholesterol nanohydrogels: Characterisation and effectiveness in carrying alginate lyase  
(2017) *New Biotechnology*, 37, pp. 80-89.  
DOI: 10.1016/j.nbt.2016.08.004 IF = 3.199
10. Mazzuca, C., Bocchinfuso, G., Palleschi, A., Conflitti, P., Grassi, M., Di Meo, C., Alhaique, F., Coviello, T.  
The influence of ph on the scleroglucan and scleroglucan/borax systems  
(2017) *Molecules*, 22 (3), art. no. 435.  
DOI: 10.3390/molecules22030435 IF = 3.098
11. Alhaique, F., Casadei, M.A., Cencetti, C., Coviello, T., Di Meo, C., Matricardi, P., Montanari, E., Pacelli, S., Paolicelli, P.  
From macro to nano polysaccharide hydrogels: An opportunity for the delivery of drugs  
(2016) *Journal of Drug Delivery Science and Technology*, 32, pp. 88-99.  
DOI: 10.1016/j.jddst.2015.09.018 IF = 0.620
12. Di Meo, C., Proietti, N., Mannina, L., Capitani, D.  
NMR methodologies in the study of polysaccharides  
(2016) *Polysaccharide Hydrogels: Characterization and Biomedical Applications*, pp. 209-243.  
DOI: 10.4032/9789814613620
13. Coviello, T., Margheritelli, S., Matricardi, P., Di Meo, C., Cerreto, F., Alhaique, F., Abrami, M., Grassi, M.  
Influence of borate amount on the swelling and rheological properties of the Scleroglucan/borax system  
(2016) *Journal of Applied Polymer Science*, 133 (3), art. no. 42860.  
DOI: 10.1002/app.42860 IF = 1.866
14. Alhaique, F., Matricardi, P., Di Meo, C., Coviello, T., Montanari, E.  
Polysaccharide-based self-assembling nanohydrogels: An overview on 25-years research on pullulan  
(2015) *Journal of Drug Delivery Science and Technology*, 30, pp. 300-309.  
DOI: 10.1016/j.jddst.2015.06.005 IF = 0.620
15. Di Meo, C., Cilurzo, F., Licciardi, M., Scialabba, C., Sabia, R., Paolino, D., Capitani, D., Fresta, M., Giammona, G., Villani, C., Matricardi, P.  
Polyspartamide-Doxorubicin Conjugate as Potential Prodrug for Anticancer Therapy  
(2015) *Pharmaceutical Research*, 32 (5), pp. 1557-1569.  
DOI: 10.1007/s11095-014-1557-2 IF = 3.260

16. Di Meo, C., Montanari, E., Manzi, L., Villani, C., Coviello, T., Matricardi, P.  
Highly versatile nanohydrogel platform based on riboflavin-polysaccharide derivatives useful in the development of intrinsically fluorescent and cytocompatible drug carriers  
(2015) *Carbohydrate Polymers*, 115, pp. 502-509.  
DOI: 10.1016/j.carbpol.2014.08.107 IF = 4.219
17. Montanari, E., De Rugeris, M.C., Di Meo, C., Censi, R., Coviello, T., Alhaique, F., Matricardi, P.  
One-step formation and sterilization of gellan and hyaluronan nanohydrogels using autoclave  
(2015) *Journal of Materials Science: Materials in Medicine*, 26 (1), pp. 1-6.  
DOI: 10.1007/s10856-014-5362-6 IF = 2.272
18. Coviello, T., Trotta, A.M., Marianecchi, C., Carafa, M., Di Marzio, L., Rinaldi, F., Di Meo, C., Alhaique, F., Matricardi, P.  
Gel-embedded niosomes: Preparation, characterization and release studies of a new system for topical drug delivery  
(2015) *Colloids and Surfaces B: Biointerfaces*, 125, pp. 291-299.  
DOI:10.1016/j.colsurfb.2014.10.060 IF = 3.902
19. D'Arrigo, G., Navarro, G., Di Meo, C., Matricardi, P., Torchilin, V.  
Gellan gum nanohydrogel containing anti-inflammatory and anti-cancer drugs: A multi-drug delivery system for a combination therapy in cancer treatment  
(2014) *European Journal of Pharmaceutics and Biopharmaceutics*, 87 (1), pp. 208-216.  
DOI: 10.1016/j.ejpb.2013.11.001 IF = 3.850
20. Montanari, E., D'Arrigo, G., Di Meo, C., Virga, A., Coviello, T., Passariello, C., Matricardi, P.  
Chasing bacteria within the cells using levofloxacin-loaded hyaluronic acid nanohydrogels  
(2014) *European Journal of Pharmaceutics and Biopharmaceutics*, 87 (3), pp. 518-523.  
DOI: 10.1016/j.ejpb.2014.03.003 IF = 3.850
21. Ansari, S.A., Matricardi, P., Cencetti, C., Di Meo, C., Carafa, M., Mazzuca, C., Palleschi, A., Capitani, D., Alhaique, F., Coviello, T.  
Sonication-based improvement of the physicochemical properties of guar gum as a potential substrate for modified drug delivery systems  
(2013) *BioMed Research International*, 2013, art. no. 985259.  
DOI: 10.1155/2013/985259 IF = 1.579
22. Montanari, E., Capece, S., Di Meo, C., Meringolo, M., Coviello, T., Agostinelli, E., Matricardi, P.  
Hyaluronic acid nanohydrogels as a useful tool for BSAO immobilization in the treatment of melanoma cancer cells  
(2013) *Macromolecular Bioscience*, 13 (9), pp. 1185-1194.  
DOI: 10.1002/mabi.201300114 IF = 3.650
23. Matricardi, P., Di Meo, C., Coviello, T., Hennink, W.E., Alhaique, F.  
Interpenetrating polymer networks polysaccharide hydrogels for drug delivery and tissue engineering  
(2013) *Advanced Drug Delivery Reviews*, 65 (9), pp. 1172-1187.  
DOI: 10.1016/j.addr.2013.04.002 IF = 12.707
24. D'Arrigo, G., Di Meo, C., Gaucci, E., Chichiarelli, S., Coviello, T., Capitani, D., Alhaique, F., Matricardi, P.  
Self-assembled gellan-based nanohydrogels as a tool for prednisolone delivery  
(2012) *Soft Matter*, 8 (45), pp. 11557-11564.  
DOI: 10.1039/c2sm26178b IF = 3.909
25. D'Arrigo, G., Di Meo, C., Geissler, E., Coviello, T., Alhaique, F., Matricardi, P.  
Hyaluronic acid methacrylate derivatives and calcium alginate interpenetrated hydrogel networks for biomedical applications: Physico-chemical characterization and protein release  
(2012) *Colloid and Polymer Science*, 290 (15), pp. 1575-1582.  
DOI: 10.1007/s00396-012-2735-6 IF = 2.161
26. D'Arrigo, G., Di Meo, C., Pescosolido, L., Coviello, T., Alhaique, F., Matricardi, P.  
Calcium alginate/dextran methacrylate IPN beads as protecting carriers for protein delivery  
(2012) *Journal of Materials Science: Materials in Medicine*, 23 (7), pp. 1715-1722.  
DOI: 10.1007/s10856-012-4644-0 IF = 2.141
27. Sémiramoth, N., Di Meo, C., Zouhiri, F., Saïd-Hassane, F., Valetti, S., Gorges, R., Nicolas, V., Poupaert, J.H., Chollet-Martin, S., Desmaële, D., Gref, R., Couvreur, P.  
Self-assembled squalenoylated penicillin bioconjugates: An original approach for the treatment of intracellular infections  
(2012) *ACS Nano*, 6 (5), pp. 3820-3831.  
DOI: 10.1021/nn204928v IF = 12.162
28. Ansari, S.A., Matricardi, P., Di Meo, C., Alhaique, F., Coviello, T.  
Evaluation of rheological properties and swelling behaviour of sonicated scleroglucan samples  
(2012) *Molecules*, 17 (3), pp. 2283-2297.  
DOI: 10.3390/molecules17032283 IF = 2.428
29. Ruiz-Caro, R., Veiga, M.D., Di Meo, C., Cencetti, C., Coviello, T., Matricardi, P., Alhaique, F.  
Mechanical and drug delivery properties of a chitosan-tartaric acid hydrogel suitable for biomedical applications  
(2012) *Journal of Applied Polymer Science*, 123 (2), pp. 842-849.  
DOI: 10.1002/app.34513 IF = 1.395
30. Matricardi, P., Pitarresi, G., Palumbo, F.S., Di Meo, C., Albanese, A., Coviello, T., Cencetti, C., Fiorica, C., Giammona, G.  
Mechanical characterization of polysaccharide/polyaminoacid hydrogels as potential scaffolds for tissue regeneration  
(2011) *Macromolecular Research*, 19 (12), pp. 1264-1271.  
DOI: 10.1007/s13233-011-1208-y IF = 1.153

31. Marianecchi, C., Carafa, M., di Marzio, L., Rinaldi, F., di Meo, C., Alhaique, F., Matricardi, P., Coviello, T. A new vesicle-loaded hydrogel system suitable for topical applications: Preparation and characterization (2011) *Journal of Pharmacy and Pharmaceutical Sciences*, 14 (3), pp. 336-346. IF = 1.646
32. Reverberi, M., Zjalic, S., Ricelli, A., Di Meo, C., Scarpari, M., Fanelli, C., Fabbri, A.A. Mushrooms versus fungi: Natural compounds from *Lentinula edodes* inhibit aflatoxin biosynthesis by *Aspergillus parasiticus* (2011) *World Mycotoxin Journal*, 4 (3), pp. 217-224. DOI: 10.3920/WMJ2010.1270 IF = 1.452
33. Di Meo, C., Coviello, T., Matricardi, P., Alhaique, F., Capitani, D., Lamanna, R. Anisotropic enhanced water diffusion in scleroglucan gel tablets (2011) *Soft Matter*, 7 (13), pp. 6068-6075. DOI: 10.1039/c1sm05190c IF = 4.390
34. Sandolo, C., Bulone, D., Mangione, M.R., Margheritelli, S., Di Meo, C., Alhaique, F., Matricardi, P., Coviello, T. Synergistic interaction of Locust Bean Gum and Xanthan investigated by rheology and light scattering (2010) *Carbohydrate Polymers*, 82 (3), pp. 733-741. DOI: 10.1016/j.carbpol.2010.05.044 IF = 3.463
35. Pescosolido, L., Miatto, S., Di Meo, C., Cencetti, C., Coviello, T., Alhaique, F., Matricardi, P. Injectable and in situ gelling hydrogels for modified protein release (2010) *European Biophysics Journal*, 39 (6), pp. 903-909. DOI: 10.1007/s00249-009-0440-2 IF = 2.387
36. Oddo, L., Masci, G., Di Meo, C., Capitani, D., Mannina, L., Lamanna, R., De Santis, S., Alhaique, F., Coviello, T., Matricardi, P. Novel thermosensitive calcium alginate microspheres: Physico-chemical characterization and delivery properties (2010) *Acta Biomaterialia*, 6 (9), pp. 3657-3664. DOI: 10.1016/j.actbio.2010.03.013 IF = 4.824
37. Grassi, M., Lapasin, R., Coviello, T., Matricardi, P., Di Meo, C., Alhaique, F. Scleroglucan/borax/drug hydrogels: Structure characterisation by means of rheological and diffusion experiments (2009) *Carbohydrate Polymers*, 78 (3), pp. 377-383. DOI: 10.1016/j.carbpol.2009.04.025 IF = 3.167
38. Testa, G., Di Meo, C., Nardecchia, S., Capitani, D., Mannina, L., Lamanna, R., Barbetta, A., Dentini, M. Influence of dialkyne structure on the properties of new click-gels based on hyaluronic acid (2009) *International Journal of Pharmaceutics*, 378 (1-2), pp. 86-92. DOI: 10.1016/j.ijpharm.2009.05.051 IF = 2.962
39. Di Meo, C., Panza, L., Campo, F., Capitani, D., Mannina, L., Banzato, A., Rondina, M., Rosato, A., Crescenzi, V. Novel types of carborane-carrier hyaluronan derivatives via "click chemistry" (2008) *Macromolecular Bioscience*, 8 (7), pp. 670-681. DOI: 10.1002/mabi.200700304 IF = 3.298
40. Matricardi, P., Di Meo, C., Coviello, T., Alhaique, F. Recent advances and perspectives on coated alginate microspheres for modified drug delivery (2008) *Expert Opinion on Drug Delivery*, 5 (4), pp. 417-425. DOI: 10.1517/17425247.5.4.417 IF = 3.345
41. Crescenzi, V., Cornelio, L., Di Meo, C., Nardecchia, S., Lamanna, R. Novel hydrogels via click chemistry: Synthesis and potential biomedical applications (2007) *Biomacromolecules*, 8 (6), pp. 1844-1850. DOI: 10.1021/bm0700800 IF = 4.169
42. Di Meo, C., Panza, L., Capitani, D., Mannina, L., Banzato, A., Rondina, M., Renier, D., Rosato, A., Crescenzi, V. Hyaluronan as carrier of carboranes for tumor targeting in boron neutron capture therapy (2007) *Biomacromolecules*, 8 (2), pp. 552-559. DOI: 10.1021/bm0607426 IF = 4.169
43. Di Meo, C., Capitani, D., Mannina, L., Brancaleoni, E., Galesso, D., De Luca, G., Crescenzi, V. Synthesis and NMR characterization of new hyaluronan-based NO donors (2006) *Biomacromolecules*, 7 (4), pp. 1253-1260. DOI: 10.1021/bm050904i IF = 3.664
44. Pizzichini, M., Russo, C., Di Meo, C.D. Purification of pulp and paper wastewater, with membrane technology, for water reuse in a closed loop (2005) *Desalination*, 178 (1-3 SPEC. ISS.), pp. 351-359. DOI: 10.1016/j.desal.2004.11.045 IF = 0.955
45. Maly, J., Di Meo, C., De Francesco, M., Masci, A., Masojidek, J., Sugiura, M., Volpe, A., Pilloton, R. Reversible immobilization of engineered molecules by Ni-NTA chelators (2004) *Bioelectrochemistry*, 63 (1-2), pp. 271-275. DOI: 10.1016/j.bioelechem.2003.10.024 IF = 2.261

## Patents

- WO2008031525, 2008-03-20  
V. Crescenzi, C. Di Meo, D. Galessio  
HYALURONIC ACID DERIVATIVES OBTAINED VIA "CLICK CHEMISTRY" CROSSLINKING
- EP2468222 (A1) – 2012-06-27  
P. Matricardi, C. Di Meo, F. De Marco, L. Ciolfi  
DEVICE FOR THE APPLICATION OF COLD
- WO2014199318 (A2) – 2014-12-18  
MC De Rugeris, E. Montanari, C. Di Meo, P. Matricardi  
METHOD FOR PREPARING NANOHYDROGELS
- WO2014199319 (A2) – 2014-12-18  
D'Arrigo, C. Cencetti, C. Di Meo, P. Matricardi  
METHOD FOR THE TREATMENT OF NANOHYDROGELS
- WO2015071873 (A1) – 2015-05-21  
C. Di Meo, C. Villani, P. Matricardi  
NEW POLYMER PLATFORM TO PREPARE NANOHYDROGEL