

PATRIZIA PAOLICELLI

Curriculum Vitae

Education

Type	Year	Institution	Notes (Degree, Experience,...)
Academic degree	2003	Sapienza University of Rome	Degree in Pharmaceutical Chemistry and Technologies. Dissertation on "Idrogel biodegradabili ottenuti per fotoreticolazione di destrano e poliaspartammide derivatizzati". Supervisor: prof. Maria Antonietta Casadei. Grade: 110/110 cum laude.
PhD	2008	Sapienza University of Rome	PhD in Pharmaceutical Sciences. Dissertation on "Nanoparticles as drug and vaccine delivery vehicles". Supervisors: prof. Maria Antonietta Casadei (Sapienza University of Rome) and prof. Maria José Alonso (Departamento de Farmacia y Tecnología Farmaceuticas - Universidad de Santiago de Compostela – Campus Vida – Spain)
Licensure	2012	Sapienza University of Rome	Pharmacist licensure and "Ordine dei Farmacisti di Roma" enrolling

Academic Appointments

Start	End	Institution	Position
2008	2009	University of Santiago de Compostela	Post-doctorate Research Fellow
2009	2013	Sapienza University of Rome	Post-doctorate Research Fellow
2011	2011	University of Southampton	Visiting Research Fellow (6 months) at the Bone & Joint research group, Institute of Developmental Sciences
2013	2014	Sapienza University of Rome	Post-doctorate Research Fellow

Teaching experience

Year	Institution	Lecture/Course
2016/2017	Sapienza University of Rome	Pharmaceutical Technology (12 ECTS)
2011	IOBA – Istituto Universitario de Oftalmobiologia Aplicada	Biomateriales en la terapeutica ocular (3 ECTS)
2010	IOBA – Istituto Universitario de Oftalmobiologia Aplicada	Biomateriales en la terapeutica ocular (3 ECTS)

Society memberships, Awards and Honors

Year	Title
From 2014 to 2017	Member of Società Chimica Italiana (SCI), Controlled Release Society (CRS) Italian Chapter
2014	Positive evaluation at the National Scientific Qualification for associate professor
2008	Awarded with the Galeno Euro PhD® in Advanced Drug Delivery - Marie Curie Fellow (MEST-CT-2004-404992)

Research Activities

Keywords	Brief Description
Nanocarriers	Design and development of innovative nanosized lipid and/or polymer-based delivery systems for pharmaceutical and biomedical applications.
Hydrogels	Synthesis of novel hydrogels and study of their properties for application in the biomedical field.
Hybrid drug delivery systems	Combination of different biomaterials for the development of smart hybrid systems endowed with enhanced properties to be used in the biomedical field.

Publications

List of the publications selected for the evaluation. For each publication report title, authors, reference data, journal IF (if applicable), citations, press/media release (if any).

Number	Reference data
1	Krasodomska, O, Paolicelli, P, Cesa, S, Casadei, MA, Jungnickel, C. Protection and viability of fruit seeds oils by nanostructured lipid carrier (NLC) nanosuspensions. Journal of Colloid and Interface Science, 2016, 479, 25-33

- 2 Masci, A, Coccia, A, Lendaro, E, Mosca, L, Paolicelli, P, Cesa, S. **Evaluation of different extraction methods from pomegranate whole fruit or peels and the antioxidant and antiproliferative activity of the polyphenolic fraction.** Food Chemistry, 2016, 202, 59-69
- 3 Alhaique, F, Casadei, MA, 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.** Journal of Drug Delivery Science and Technology, 2016, 32, 88-99
- 4 3 – Adrover, A, Casadei, MA, Paolicelli, P, Petralito, S, Varani, G. **Swelling and drug release from oral thin films (OTFs).** AIP Conference Proceedings 8th International Conference on Times of Polymers and Composites: From Aerospace to Nanotechnology; Ischia, Naples; Italy; 19-23 June 2016, 1736, 4949660
- 5 Petralito, S, Paolicelli, P, Nardoni, M, Apollonio, F, Liberti, M, Merla, C, Pinto, R, Casadei, MA, Annesini, MC. **Magnetoliposomes: Envisioning new strategies for water decontamination.** Chemical Engineering Transactions, 47, 37-42
- 6 Pacelli, S, Paolicelli, P, Moretti, G, Petralito, S, Di Giacomo, S, Vitalone, A, Casadei, MA. **Gellan gum methacrylate and laponite as an innovative nanocomposite hydrogel for biomedical applications.** European Polymer Journal, 2016, 77, 114–123
- 7 Pacelli, S; Paolicelli, P; Casadei, MA. **New biodegradable dextran-based hydrogels for protein delivery: Synthesis and characterization.** Carbohydrate Polymers 2015, 126, 208-214
- 8 Pacelli, S; Paolicelli, P; Dreesen, I; Kobayashi, S; Vitalone, A; Casadei, MA. **Injectable and photocrosslinkable gels based on gellan gum methacrylate: a new tool for biomedical application.** International Journal of Biological Macromolecules 2015, 72, 1335-1342
- 9 Petralito, S; Spera, R; Pacelli, S; Relucenti, M; Familiari, G; Vitalone, A; Paolicelli, P; Casadei MA. **Design and development of PEG-DMA gel-in-liposomes as a new tool for drug delivery.** Reactive and Functional Polymers 2014,77,30-38
- 10 López-Cebral, R; Martín-Pastor, M; Paolicelli, P; Casadei, MA; Seijo, B; Sanchez, A. **Application of NMR spectroscopy in the development of a biomimetic approach for hydrophobic drug association with physical hydrogels.** Colloids and Surfaces B: Biointerfaces 2014, 115, 391-399
- 11 Pacelli, S; Paolicelli, P; Pepi, F; Garzoli, S; Polini, A; Tita, B; Vitalone, A; Casadei, MA. **Gellan gum and polyethylene glycol dimethacrylate double network hydrogels with improved mechanical properties.** Journal of Polymer Research 2014, 21, 1-13
- 12 Casadei, MA; Cesa, S; Pacelli, S; Paolicelli, P; Tita, B; Vitali, F. **Polysaccharide hydrogel microspheres obtained in w/o emulsion: preparation, characterization and in-vivo studies.** Journal of Microencapsulation 2014, 31, 440-447
- 13 Corrente, F; Abu Amara, HM; Pacelli, S; Paolicelli, P; Casadei, MA. **Novel injectable and in situ cross-linkable hydrogels of dextran methacrylate and scleroglucan derivatives: Preparation and characterization.** Carbohydrate Polymers 2013, 92(2), 1033-1039
- 14 López-Cebral, R; Paolicelli, P; Romero-Caamaño, V; Seijo, B; Casadei, MA; Sanchez, A. **Spermidine-crosslinked hydrogels as novel potential platforms for pharmaceutical applications.** Journal of Pharmaceutical Sciences 2013,102(8),2632-2643

- 15 Cerreto, A; Corrente, F; Botta, B; Pacelli, S; Paolicelli, P; Mannina, L; Casadei, MA. **NMR characterization of carboxymethyl scleroglucan**. International Journal of Polymer Analysis and Characterization 2013, 18, 587-595
- 16 Cerreto, F; Paolicelli, P; Cesa, S; Abu Amara, HM; Diodata D'Auria, F; Simonetti, G; Casadei, MA. **Solid lipid nanoparticles as effective reservoir systems for long-term preservation of multidose formulations**. AAPS PharmSciTech. 2013,14(2),847-853
- 17 Cacchi, S; Caponetti, E; Casadei, MA; Di Giulio, A; Fabrizi, G; Forte, G; Goggiamani, A; Moreno, S; Paolicelli, P; Petrucci, F; Prastaro, A; Saladino, ML. **Suzuki-Miyaura cross-coupling of arenediazonium salts catalyzed by alginate/gellan-stabilized palladium nanoparticles under aerobic conditions in water**. Green Chemistry 2012,14, 317-20
- 18 Cesa, S; Casadei, MA; Cerreto, F; Paolicelli, P. **Influence of fat extraction methods on the peroxide value in infant formulas**. Food Research International 2012, 48(2), 584–591
- 19 Cesa, S; Paolicelli, P; Cerreto, F; Casadei, MA. **Comparison between third derivative spectrophotometric method and HPLC-DAD method in detection of malondialdehyde in infant formulae, human and cow milks**. Journal of Chemical and Pharmaceutical Research 2012, 4(1), 221-30
- 20 Corrente, F; Paolicelli, P; Matricardi, P; Tita, B; Vitali, F; Casadei, MA. **Novel pH-sensitive physical hydrogels of carboxymethyl scleroglucan**. Journal of Pharmaceutical Sciences 2012, 101(1), 256-67
- 21 Paolicelli, P; Corrente, F; Serricchio, D; Cerreto, F; Cesa, S; Tita, B; Vitali, F; Diodata D'Auria, F; Simonetti, G; Casadei, MA. **The system SLN-Dextran hydrogel: an application for the topical deliver of ketoconazole**. Journal of Chemical and Pharmaceutical Research 2011, 3(4), 410-21
- 22 Cerreto, F; Scalzo, M; Cesa, S; Paolicelli, P; Casadei, MA. **Solid lipid nanosuspensions based on low melting points lipids as protective system of retinyl palmitate**. Journal of Drug Delivery Science and Technology 2011, 21(6), 479-83
- 23 Prego, C; Paolicelli, P; Díaz, B; Vicente, S; Sanchez, A; Gonzalez-Fernández, A; Alonso, MJ. **Chitosan-based nanoparticles for improving immunization against hepatitis B infection**. Vaccine 2010, 28(14), 2607-14
- 24 Paolicelli, P; Prego, C; Sanchez, A; Alonso, MJ. **Surface-modified PLGA-based nanoparticles that can efficiently associate and deliver virus-like particles**. Nanomedicine 2010, 5(6), 843-53
- 25 Raviña, M; Paolicelli, P; Seijo, B; Sanchez, A. **Knocking down gene expression with dendritic vectors**. Mini Reviews in Medicinal Chemistry 2010, 10(1), 73-86
- 26 de la Fuente M, Raviña M, Paolicelli P, Sanchez A, Seijo B, Alonso MJ. **Chitosan-based nanostructures: a delivery platform for ocular therapeutics**. Advanced Drug Delivery Reviews 2010, 62(1), 100-17
- 27 Paolicelli, P; de la Fuente, M; Sánchez, A; Seijo, B; Alonso, MJ. **Chitosan nanoparticles for drug delivery to the eye**. Expert Opinion on Drug Delivery 2009, 6(3), 239-53
- 28 Corrente, F; Matricardi, P; Paolicelli, P; Tita, B; Vitali, F; Casadei, MA. **Physical carboxymethylscleroglucan/calcium ion hydrogels as modified drug delivery systems in topical formulations**. Molecules 2009, 14(8), 2684-98

- 29 Paolicelli, P; Cerreto, F; Cesa, S; Feeney, M; Corrente, F; Marianecchi, C; Casadei, MA. **Influence of the formulation components on the properties of the system SLN-hydrogel for the controlled release of drugs.** Journal of Microencapsulation 2008, 12, 1-10
- 30 Giannuzzo, M; Corrente, F; Feeney, M; Paoletti, L; Paolicelli, P; Tita, B; Vitali, F; Casadei, MA. **pH-sensitive hydrogels of dextran: synthesis, characterization and in-vivo studies.** Journal of Drug Targeting 2008, 16(9), 649-59
- 31 Casadei, MA; Pitarresi, G; Calabrese, R; Paolicelli, P; Giammona, G. **Biodegradable and pH-sensitive hydrogels for potential colon-specific drug delivery: characterization and in vitro release studies.** Biomacromolecules 2008, 9(1), 43-9
- 32 Casadei, Maria Antonietta; Matricardi, Pietro; Fabrizi, Giancarlo; Feeney, Michelle; Paolicelli, Patrizia **Physical gels of a carboxymethyl derivative of scleroglucan: Synthesis and characterization.** European Journal of Pharmaceutics and Biopharmaceutics 2007, 67(3), 682-9
- 33 Pitarresi, G; Casadei, MA; Mandracchia, D; Paolicelli, P; Palumbo, FS; Giammona, G. **Photocrosslinking of dextran and polyaspartamide derivatives: A combination suitable for colon-specific drug delivery.** Journal of Controlled Release 2007, 119(3), 328-338
- 34 Feeney, M; Giannuzzo, M; Paolicelli, P; Casadei, MA. **Hydrogels of dextran containing non steroidal anti-inflammatory drugs as pendant agents.** Drug Delivery 2007, 14(2), 87-93
- 35 Casadei, MA; Cerreto, F; Cesa, S; Giannuzzo, M; Feeney, M; Marianecchi, C; Paolicelli, P. **Solid lipid nanoparticles incorporated in dextran hydrogels: A new drug delivery system for oral formulations.** International Journal of Pharmaceutics 2006, 325(1-2), 140-146
- 36 Giannuzzo, M; Feeney, M; Paolicelli, P; Casadei, MA. **Synthesis and characterization of pH-sensitive hydrogels of dextran.** Journal of Drug Delivery Science and Technology 2006, 16(1), 49-54
- 37 Parraga Meneses, J; Konat Zorzi, G; Paolicelli, P; Seijo Rey, B; Sanchez Barreiro, A; Contreras Ruiz, L; Diebold Luque, Y. Nanoparticles for the prevention and/or treatment of diseases of the mucous membranes. WO 2012066171 A1 20120524
- 38 Lopez Cebral, R; Seijo Rey, B; Sanchez Barreiro, A; Casadei, MA; Paolicelli, P. Hydrogels prepared from natural anionic polymers. WO 2011135150 A1
- 39 Sanchez Barreiro, A; Seijo Rey, B; Paolicelli, P; Konat Zorzi, G; Parraga Meneses, J. Nanoparticulate systems prepared from anionic polymers. WO 2010049562 A1 20100506