

PERSONAL INFORMATION

Gennara Cavallaro



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 | Nationality Italian

POSITION

Full Professor of Pharmaceutical Technology at the University of Palermo

WORK EXPERIENCE

- From July 22nd 2020 to Sept 2023 Director of “Advanced Technologies Network Center” – AteN Center of the University of Palermo.

From 2018 to July 21st 2020 Reference Member of Material Area and Biocompatible Systems “Advanced Technologies Network Center” – AteN Center of the University of Palermo.
- From November 2015 to present Delegate to the ordinary maintenance and the management of the patrimony of Dpt STEBICEF.

From 2013 to 2015 Responsible of the Division of Pharmaceutical Chemistry and Technologies of the Dpt STEBICEF. She was a Member of the Expert Evaluation Group (GEV area 03) for the VQR exercise 2011-2014.
- From 2011 to 2012 Assistant Director of the Department of Molecular and Biomolecular Sciences and Technologies.
- From 2009 to 2010 Director of Department of Pharmaceutical Chemistry and Technologies.
- From 2004 to 2013 Component (since 2007, for six years) of the Directive Board of CRS- Italy Local Chapter.
- From 2006 to present Full Professor at the Faculty of Pharmacy, University of Palermo, (SSD CHIM/09, Farmaceutico Tecnologico Applicativo).
- From 1998 to 2006 Associate Professor in 1998 at the University of Palermo (Italy), (SSD CHIM/09, Farmaceutico Tecnologico Applicativo).
- From 1993 to 1998 Technician by the Dpt of Pharmaceutical Chemistry and Technologies of the University of Palermo.

EDUCATION AND TRAINING

- From 1994 to 1997 Frequent visitor of Pharmaceutical Technologies Laboratory, University of Palermo, Head: Prof. G. Giammona.
- From 1990 to 1993 PhD student in the Chemistry Science Course of the University of Palermo (Cycle 6st). PhD degree in Chemical Sciences in June 1994 discussing a thesis titled: "Physical-chemical studies on drug delivery systems".
- In 1990 Degree in Pharmacy (Final mark: 110/110 with honors).

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	good	good	good	good	good

ADDITIONAL INFORMATION

Teaching activity	
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In the academic year 1997-1998, Contract Professor at the Faculty of Pharmacy of the University of Calabria for the teaching of "Technology Socioeconomics and Pharmaceutical Legislation" for the Degree Courses in Pharmacy and Pharmaceutical Chemistry and Technology.

From 1998, teaching assignments for the students of the Degree Course in Pharmaceutical Chemistry and Technology, of the Faculty of Pharmacy of the University of Palermo:

- "Technology Socioeconomics and Pharmaceutical Legislation II" (from A.A. 1998/1999 to 2011/2012);
- "Polymers of Pharmaceutical Interest" (from A.A. 2006/2007 to 2009/2010);
- "Advanced Pharmaceutical Technology" (from A.A. 2013/2014 to 2015/2016);
- "Pharmaceutical Forms Technology" (from A.A. 2011/2012 to now).

Other teaching assignments:

- "Pharmaceutical Technologies" (from A.A. 2002/2003 to 2009/2010) for the Degree in Biotechnology (Biopharmaceutical profile), University of Palermo;
- "Socioeconomics" (from A.A. 2003/2004 to 2004/2005) for the Degree Course in Herbal Techniques, University of Palermo;
- "Functionalization Course of Materials for biomedical use" (A.A. 2015/2016) for the Master of Science in Material Engineering, University of Palermo.

From the A.A. 2000/2001 until now, teachings for students of the Specialization School in Hospital Pharmacy activated at the Faculty of Pharmacy of the University of Studies of Palermo, such as "Pharmaceutical Technology I" and "Pharmaceutical Technology II".

Supervisor for students in experimental graduation theses and in assisting numerous students to prepare compilation theses.

Academic and research assignments

-Director of Department of Pharmaceutical Chemistry and Technologies from March 2009 to December 2010.

-Assistant Director of the Department of Molecular and Biomolecular Sciences and Technologies from February 2011 to December 2012.

- Responsible of the Division of Pharmaceutical Chemistry and Technologies of the STEBICEF Department from January 2013-October 2015.

- Component- Secretary(since 2007, for six years) of the Directive Board of CRS- Italy Local Chapter.

- Member of the Academic Board of the Research Doctorate in "Technologies of Biologically Active Substances", of the University of Palermo.

- Member of the Research Doctorate in "Molecular and Biomolecular Sciences" of the University of Palermo.

- Member of the Expert Evaluation Group (GEV area 03) for the VQR exercise 2011-2014.

- Delegate to the ordinary maintenance and the management of the patrimony of STEBICEF Department from November 1st 2015 to present.

- Since May 2018, Reference Member of Material Area and Biocompatible Systems "Advanced Technologies Network Center" – AteN Center of the University of Palermo.

- Member of the International Relations Commission (CORI).
- Member of the Expert Evaluation Group (GEV area 03) for the VQR exercise 2015-2019.
- Director of "Advanced Technologies Network Center" – AteN Center of the University of Palermo from July 2020 to September 2023.

Projects – Research Funding

2000-2002 Principal Investigator of the Research Unit of Palermo in the Research National Project (PRIN, Research Projects of National Interest) entitled: "Carrying and targeting of drugs in the antitumor therapy by polymeric and lipidic carriers" co-funded by MURST.

2002-2004 Principal Investigator of the Research Unit of Palermo in the Research National Project (PRIN, Research Projects of National Interest) entitled: "Delivery and targeting of antitumor agents by polymeric vectors" co-funded by MIUR.

2003 – 2007 Internal Collaborators of the National Research Project (Funds for the Investment of the Basis Research, FIRB) entitled: "Nano- and microsystems at organic matrix for biomedical applications" (DM n. 1680 21.11.2002) co-funded by MIUR.

2006-2008 Principal Investigator of the Research Unit of Palermo in the Research National Project (PRIN, Research Projects of National Interest) entitled: "Development of nanosystems for the delivery of genetic material in antitumor therapy" co-funded by MIUR.

2011–2015: Principal Investigator of CARIPLO- FUNDING in the project with the title: Nanorods (NR) e nanoparticelle asimmetriche (NPA) d'oro ricoperte di polimero biocompatibile con funzioni leganti per molecole e ioni metallici: azione antimicrobica farmacologica e termica attivata da irraggiamento nel vicino IR (Involved Universities: Pavia- Palermo- Milano Bicocca).

2013– 2016: Principal Investigator of the Unit of Palermo PRIN 2010-2011 in the project with the title: Identification of optimal delivery systems for the Nucleic Acid Nased Drus and study of the action mechanisms in some models of human tumoral and inflammatory pathologies (Involved organizations : Universities of Trieste – Foggia- Pavia- Palermo- Salerno – Napoli, CNR of Naples).

Participant to PON 2007-2013 Funded by the U.E. - Project code: PON01_01287, Title "SIB: advanced solutions based on biomaterials with complex composite matrices for the repair and regeneration of articular cartilage using minimally invasive techniques";

Participant to PON 2007-2013 Funded by the U.E. - Project code: 00355_2964193, Title: Development of Micro and Nano-Technologies and Advanced Systems for Human Health – HIPPOCRATES;

Participant to PON 2007-2013 Funded by the U.E. - Project code: PON01_01434 Project title: "Scientific-Technological Platform for the Development of New Therapeutic Approaches in the Treatment of Major Retinal Degenerative Pathologies" (REACT).

Since September 2014 Reference Investigator of the University of Palermo for the Project: Drug delivery: veicoli per un'innovazione sostenibile in the DISTRETTO BIOMEDICO AL ALTA TECNOLOGIA.

Participant to a project: Azione 1.1.5 of PO FESR SICILIA 2014-2020 - Project code: 087219090463, Title: "Micro e nanosistemi innovativi per la cura efficace del Tumore al Fegato – LiverSmartDrug".

Participant to a project ARS01_00693 , Soggetto attuatore: Università degli Studi di Palermo Titolo del progetto: "BONE++ - Sviluppo di Micro-e Nano-Tecnologie per la Predit, Diagnosi, Terapia e Trattamento Rigenerativo delle Alterazioni Patologiche Osso e Osteo-Articolari"

Principal investigator for the University of PALERMO of PNRR Project: National Center for Gene Therapy and Drugs based on RNA Technology – Code of the project: CN00000041, SPOKE 8- Platforms for RNA/DNA delivery; WP 8.1 - Translational development of smart delivery platforms for NA delivery; Task 8.1.1 –Novel synthetic materials and nanoplatforms for NA delivery

Component of the Project PNRR "HEAL ITALIA", codice identificativo PE0000019, Spoke 6: Healthy Toolbox: Development of innovative devices for precision diagnosis and personalized therapy; WP4: Precision micro and nanotools for innovative pharmacotherapies; Task 4.1: Development of smart drug-delivery systems. Task 4.2: Development of nanotherapeutic agents.

Presentations as Invited speaker

- On April 2001, she gave an invitation lecture, entitled: "Nuove Norme per la Somministrazione di Farmaci Analgesici Oppiacei nella Terapia del Dolore" (legge 8 febbraio 2001, n. 12) in the framework of the Professional Update Course organized by the UTIFARMA-Palermo.

- On 12-13 October 2002, participated in the 1st and 2nd ed. of the conference entitled: "La Farmacopea Ufficiale Italiana XI edizione e le Norme di Buona Preparazione in farmacia", held in Palermo, holding an invitation lecture entitled: "Le norme di buona preparazione e la certificazione delle preparazioni in farmacia" in the context of the E.C.M events organized by AGIFAR and S.I.F.A.P.

- On 30 November – 2nd December 2002 participated in the updating course on the subject: "Approcci Tecnologici per la Somministrazione dei Farmaci Attraverso Varie Vie", held in Agrigento, holding an invitation lecture entitled: "La via orale e i diversi approcci per il rilascio controllato", in the context of the E.C.M events organized by Ordine dei Farmacisti della Provincia di Agrigento and A.D.R.I.T.E.L.F.

- On 19 December 2002 participated in the updating course on the subject: "La Farmacopea Ufficiale Italiana XI edizione e le Norme di Buona Preparazione in farmacia", held in Catania, holding an invitation lecture entitled: "Le norme di buona preparazione e la certificazione delle preparazioni in farmacia" in the context of the E.C.M events organized by AGIFAR and S.I.F.A.P.

- 8 - 11 November 2003 participated, upon invitation, in the NATO ADVANCED RESEARCH WORKSHOP "Macromolecular approaches to advanced biomaterials engineering systems", in SOFIA, in Bulgaria, holding an invitation lecture entitled: "Soluble and water-swellaable polyaminoacidic constructs for drug delivery".

-20 - 22 February 2004 participated in the Workshop organised by CRS – Italian Chapter in Padova entitled: Drug Targeting, holding an invitation lecture entitled: "Polymeric and micellar carriers of a polyaspartamide for drug targeting".

- 10 16 September 2005, participated as invited speaker at the 5th Course of the Advanced Doctoral School in Technology-Pharmaceutical Disciplines entitled "Innovative Technologies for Drug Delivery" held in Arcavacata di Rende (Cs), presenting a lecture entitled: "Coniugati polimerici della poliaspartammide: aspetti sintetici ed applicativi".

- 17 April 2007, participated as invited speaker to the inaugural session of C.I.B.A. Centro Interdipartimentale di Biotecnologie Applicate, in Palermo, holding an invitation lecture entitled: "Biotecnologie in Nanomedicina".

-30 September - 3 October 2007 participated as invited speaker to the international congress in Naples, entitled: Innovation in Drug Delivery: From Biomaterials to Devices, holding an invitation lecture entitled: "Interpolyelectrolyte complexes based on polyaminoacids for gene and oligonucleotide delivery".

- 24 - 29 August 2008 participated in Palermo as teacher to the Third International Summer School in Advanced Biotechnology, holding an invitation lecture entitled: "Non viral colloidal vectors based on polyaminoacids for gene therapy".

- 14 - 17 September 2008 participated, as invited speaker to the convention 2008 GRICU - Ingegneria chimica: le nuove sfide, in Le Castella (Crotone) holding an invitation lecture entitled: "Impiego di vettori policationici a base poliamminoacidica per la veicolazione di siRNA nel trattamento della in-stent restenosi".

- 17 - 19 September 2013 participated, as invited speaker to the NANOMED Workshop "Dalla Nanomedicina al Brain Imaging. Le nuove frontiere delle Nanobiotecnologie", in the Parco Scientifico e Tecnologico della Sardegna, Pula (Cagliari) holding an invitation lecture entitled: "Polyaminoacid

based polyplexes for gene delivery”.

- 25-28 September 2016 participated as invited speaker at the 4th Conference on Innovation in Drug Delivery: Site Specific Drug Delivery, Antibes – Juan Les Pins, (France).

- 16 -18 May 2018, Invited Speaker in the “Advanced Functional Polymers for Medicine (AFPM) 2018 Conference”, in Montpellier, France. Title: Tailor-made Functionalized Polymers for nanomedicine applications.

- 12-14 September 2018, Invited Speaker in the Nanomedicine 2018, University “La Sapienza” Roma, with the talk: Nano into macro- formulations based on functionalized polymers for pulmonary drug delivery.

- October 2018, Invited Speaker in the CRS Italy Chapter Annual workshop 2018, Padova, with the talk : “Tailor-made functionalized polymers for nanomedicine”

- October 2021, Invited Speaker by the Fondazione Ca’ Granda Ospedale Maggiore Policlinico di Milano, with the Lecture : “Dai profarmaci alla teranostica: i polimeri protagonisti in Nanomedicina”.

- 11-13 September 2023, XXIII Simposio ADRITELF, IV Convegno della Divisione di Tecnologia Farmaceutica – SCI, TRIESTE, Key notes lectures with the title: “Tailor made biocompatible polymers for nanomedicine, theranostics and regenerative medicine.”

Patents

INVENTORS: GIAMMONA G, CAVALLARO G, LICCIARDI M, CIVIALE C, PALADINO M.G, MAZZONE M.G. (2006). Composizione farmaceutica oftalmica contenente copolimeri anfifilici della poliaspartammide. MI2006A000494. SIFI S.P.A.

INVENTORS: GIAMMONA G, CAVALLARO G, LICCIARDI M, CIVIALE C, PALADINO M.G, MAZZONE M.G. (2007). An ophtalmic pharmaceutical composition containing amphiphilic polyaspartamide copolymers. WO 2007/108031. SIFI S.P.A.

INVENTORS: LICCIARDI M, GIAMMONA G, CAVALLARO G, PITARRESI G. (2007). Vettori colloidali a struttura poliamminoacidica per il rilascio orale di peptidi e proteine e relativo metodo di produzione. RM2007A000327. Università degli Studi di Palermo.

INVENTORS: LICCIARDI M, GIAMMONA G, CAVALLARO G, PITARRESI G (2008). Colloidal vectors with polyaminoacid structure for oral release of peptides and proteins and method for their production. PCT/IT2008/000376. Università' degli Studi di Palermo

INVENTORS: FRESTAMASSIMO, GIAMMONA GAETANO, CAVALLARO GENNARA, LICCIARDI, MARIANO, PAOLINO DONATELLA (2011). Vettori polimerici della poliaspartammide coniugati a bisfosfonati per il direccionamento di farmaci alle ossa (2011), FI2011A000012, Università di Palermo (50 %) e Università Magna Graecia di Catanzaro (50 %).

INVENTORS: FRESTAMASSIMO, GIAMMONA GAETANO, CAVALLARO GENNARA, LICCIARDI, MARIANO, PAOLINO DONATELLA (2011). Bisphosphonate-polyaspartamide conjugates as polymeric carriers for drug targeting to bones, 2012, WO2012098222 A1, Università di Palermo (50 %) e Università Magna Graecia di Catanzaro (50 %).

INVENTORS: A. BLANCO, G. CAVALLARO, G. GIAMMONA, M. LICCIARDI, G. PITARRESI, D. TROMBETTA. Amphiphilic copolymers their preparation and use for the delivery of drugs. International Application Number: PCT/EP2014/071648

INVENTORS: A. BLANCO, M.L. BONDÌ, G. CAVALLARO, G.M.L. CONSOLI, E.F. CRAPARO, G. GIAMMONA, M. LICCIARDI, G. PITARRESI. Silibinina per il trattamento delle patologie oculari neurodegenerative e formulazioni comprendenti nanostrutture per la sua veicolazione Brevetto Italiano N° FI2014A000230 (depositato il 9 Ottobre 2014)

INVENTORS: VARRICA Gloria, BERETTA Lorenzo, CAVALLARO Gennara, Fiorica Calogero, Citemersi Ugo Raffaello, I.R.A. Istituto di ricerche applicate, Domanda numero: 10202000004093, Data di presentazione: 27/02/2020, “Idrogeli Ibridi di acido ialuronico reticolato e processo di produzione.”

INVENTORS: GIAMMONA Gaetano, MAURO Nicolò, CAVALLARO Gennara, MESSINA Fabrizio,

SCIORTINO Alice, BUSCARINO Gianpiero, MARRALE Maurizio, GAGLIARDO Cesare,
Domanda numero: 10202000028445 Data di presentazione: 25/11/2020, "Nanosistema per la diagnosi ed il trattamento fototermico di tumori"

INVENTORS: GIAMMONA Gaetano, MAURO Nicolò, CAVALLARO Gennara, MESSINA Fabrizio,
SCIORTINO Alice, BUSCARINO Gianpiero, MARRALE Maurizio, GAGLIARDO Cesare,
Domanda di brevetto internazionale n. PCT/IB2021/060873 del 23/11/2021, "Nanosystem for diagnosis and photothermal treatment of tumors"

Publications **Published papers from 2013 to 2023 (to October 30, 2023)**

Drago, S.E., Cabibbo, M., Craparo, E.F., Cavallaro, G.
TAT decorated siRNA polyplexes for inhalation delivery in anti-asthma therapy
(2023) 190, art. no. 106580, .
DOI: 10.1016/j.ejps.2023.106580
DOCUMENT TYPE: Article

Mauro, N., Cillari, R., Andrea Utzeri, M., Costa, S., Giammona, G., Nicosia, A., Cavallaro, G.
Controlled delivery of sildenafil by β -Cyclodextrin-decorated sulfur-doped carbon nanodots: a synergistic activation of ROS signaling in tumors overexpressing PDE-5(2023) 645, art. no. 123409, .
DOI: 10.1016/j.ijpharm.2023.123409
DOCUMENT TYPE: Article

Terracina, A., Mauro, N., Le Balle, J., Popescu, R., Scopelliti, M., Buscarino, G., Utzeri, M.A., Cannas, M., Cavallaro, G., Messina, F., Sciortino, A.
Fluorescent Boron Oxide Nanodisks as Biocompatible Multi-messenger Sensors for Ultrasensitive Ni²⁺ Detection
(2023) 6 (7), pp. 6036-6045.
DOI: 10.1021/acsanm.3c00383
DOCUMENT TYPE: Article

Craparo, E.F., Drago, S.E., Costabile, G., Ferraro, M., Pace, E., Scaffaro, R., Ungaro, F., Cavallaro, G.
Sustained-Release Powders Based on Polymer Particles for Pulmonary Delivery of Beclomethasone Dipropionate in the Treatment of Lung Inflammation
(2023) 15 (4), art. no. 1248, . Cited 1 time.
DOI: 10.3390/pharmaceutics15041248
DOCUMENT TYPE: Article

Mauro, N., Cillari, R., Gagliardo, C., Utzeri, M.A., Marrale, M., Cavallaro, G.
Gadolinium-Doped Carbon Nanodots as Potential Anticancer Tools for Multimodal Image-Guided Photothermal Therapy and Tumor Monitoring
(2023) .
DOI: 10.1021/acsanm.3c03583
DOCUMENT TYPE: Article

Varvarà, P., Calà, C., Maida, C.M., Giuffrè, M., Mauro, N., Cavallaro, G.
Arginine-Rich Peptidomimetic Ampicillin/Gentamicin Conjugate To Tackle Nosocomial Biofilms: A Promising Strategy To Repurpose First-Line Antibiotics
(2023) 9 (4), pp. 916-927.
DOI: 10.1021/acsinfecdis.2c00579
DOCUMENT TYPE: Article

Craparo, E.F., Cabibbo, M., Emanuele Drago, S., Casula, L., Lai, F., Cavallaro, G.
Inhalable polymeric microparticles as pharmaceutical porous powder for drug administration
(2022) 628, art. no. 122325, . Cited 1 time.
DOI: 10.1016/j.ijpharm.2022.122325
DOCUMENT TYPE: Article

Mauro, N., Utzeri, M.A., Cillari, R., Scialabba, C., Giammona, G., Cavallaro, G.
Cholesterol-Inulin Conjugates for Efficient SN38 Nuclear Delivery: Nanomedicines for Precision Cancer Therapy
(2022) 14 (19), art. no. 4857, .
DOI: 10.3390/cancers14194857
DOCUMENT TYPE: Article

Mauro, N., Andrea Utzeri, M., Sciortino, A., Cannas, M., Messina, F., Cavallaro, G., Giammona, G.
Printable Thermo- and Photo-stable Poly(D,L-lactide)/Carbon Nanodots Nanocomposites via Heterophase Melt-Extrusion Transesterification
(2022) 443, art. no. 136525, . Cited 4 times.
DOI: 10.1016/j.cej.2022.136525
DOCUMENT TYPE: Article

Craparo, E.F., Cabibbo, M., Scialabba, C., Giammona, G., Cavallaro, G

Inhalable Formulation Based on Lipid-Polymer Hybrid Nanoparticles for the Macrophage Targeted Delivery of Roflumilast
(2022) 23 (8), pp. 3439-3451. Cited 5 times.
DOI: 10.1021/acs.biomac.2c00576
DOCUMENT TYPE: Article

Craparo, E.F., Drago, S.E., Quaglia, F., Ungaro, F., Cavallaro, G.
Development of a novel rapamycin loaded nano- into micro-formulation for treatment of lung inflammation
(2022) 12 (8), pp. 1859-1872. Cited 8 times.
DOI: 10.1007/s13346-021-01102-5
DOCUMENT TYPE: Article

Tomasello, L., Fiorica, C., Mauceri, R., Martorana, A., Palumbo, F.S., Pitarresi, G., Pizzolanti, G., Campisi, G., Giordano, C., Cavallaro, G.
Bioactive Scaffolds Based on Amine-Functionalized Gellan Gum for the Osteogenic Differentiation of Gingival Mesenchymal Stem Cells
(2022) 4 (3), pp. 1805-1815.
DOI: 10.1021/acsapm.1c01586
DOCUMENT TYPE: Article

Mauro, N., Utzeri, M.A., Sciortino, A., Messina, F., Cannas, M., Popescu, R., Gerthsen, D., Buscarino, G., Cavallaro, G., Giammona, G.
Decagram-Scale Synthesis of Multicolor Carbon Nanodots: Self-Tracking Nanoheaters with Inherent and Selective Anticancer Properties
(2022) 14 (2), pp. 2551-2563. Cited 11 times.
DOI: 10.1021/acsami.1c19599
DOCUMENT TYPE: Article

Sciascia, L., Calabrese, I., Cavallaro, G., Merli, M., Scialabba, C., Liveri, M.L.T.
Modified montmorillonite as drug delivery agent for enhancing antibiotic therapy
(2021) 11 (12), art. no. 1315, . Cited 2 times.
DOI: 10.3390/min11121315
DOCUMENT TYPE: Article

Lombardo, M.E., Carfi Pavia, F., Craparo, E.F., Capuana, E., Cavallaro, G., Brucato, V., La Carrubba, V.
Novel dual-flow perfusion bioreactor for in vitro pre-screening of nanoparticles delivery: design, characterization and testing
(2021) 44 (11), pp. 2361-2374. Cited 2 times.
DOI: 10.1007/s00449-021-02609-4
DOCUMENT TYPE: Article

Drago, S.E., Craparo, E.F., Luxenhofer, R., Cavallaro, G.
Development of polymer-based nanoparticles for zileuton delivery to the lung: PMeOx and PMeOzi surface chemistry reduces interactions with mucins
(2021) 37, art. no. 102451, . Cited 10 times.
DOI: 10.1016/j.nano.2021.102451
DOCUMENT TYPE: Article

Craparo, E.F., Musumeci, T., Bonaccorso, A., Pellitteri, R., Romeo, A., Naletova, I., Cucci, L.M., Cavallaro, G., Satriano, C.
Mpeg-plga nanoparticles labelled with loaded or conjugated rhodamine-b for potential nose-to-brain delivery
(2021) 13 (9), art. no. 1508, . Cited 11 times.
DOI: 10.3390/pharmaceutics13091508
DOCUMENT TYPE: Article

Mauro, N., Utzeri, M.A., Drago, S.E., Nicosia, A., Costa, S., Cavallaro, G., Giammona, G.
Hyaluronic acid dressing of hydrophobic carbon nanodots: A self-assembling strategy of hybrid nanocomposites with theranostic potential
(2021) 267, art. no. 118213, . Cited 17 times.
DOI: 10.1016/j.carbpol.2021.118213
DOCUMENT TYPE: Article

Mauro, N., Utzeri, M.A., Varvarà, P., Cavallaro, G.
Functionalization of metal and carbon nanoparticles with potential in cancer theranostics
(2021) 26 (11), art. no. 3085, . Cited 26 times.
DOI: 10.3390/molecules26113085
DOCUMENT TYPE: Article

Cavallaro, G., Sardo, C., Craparo, E.F., Giammona, G.
Development of new targeted inulin complex nanoaggregates for sirna delivery in antitumor therapy
(2021) 26 (6), art. no. 1713, . Cited 3 times.
DOI: 10.3390/molecules26061713
DOCUMENT TYPE: Article

Perrone, F., Craparo, E.F., Cemazar, M., Kamensek, U., Drago, S.E., Dapas, B., Scaggiante, B., Zanconati, F., Bonazza, D., Grassi, M., Truong, N., Pozzato, G., Farra, R., Cavallaro, G., Grassi, G.
Targeted delivery of siRNAs against hepatocellular carcinoma-related genes by a galactosylated polyaspartamide copolymer
(2021) 330, pp. 1132-1151. Cited 24 times.
DOI: 10.1016/j.jconrel.2020.11.020
DOCUMENT TYPE: Article

Craparo, E.F., Cabibbo, M., Conigliaro, A., Barreca, M.M., Musumeci, T., Giammona, G., Cavallaro, G.
Rapamycin-loaded polymeric nanoparticles as an advanced formulation for macrophage targeting in atherosclerosis
(2021) 13 (4), art. no. 503, . Cited 8 times.
DOI: 10.3390/pharmaceutics13040503
DOCUMENT TYPE: Article

Varvarà, P., Tranchina, L., Cavallaro, G., Licciardi, M.
Preparation and characterization of gold nanorods coated with gellan gum and lipoic acid
(2020) 10 (23), art. no. 8322, pp. 1-18. Cited 5 times.
DOI: 10.3390/app10238322
DOCUMENT TYPE: Article

Mauro, N., Utzeri, M.A., Buscarino, G., Sciortino, A., Messina, F., Cavallaro, G., Giammona, G.
Pressure-dependent tuning of photoluminescence and size distribution of carbon nanodots for theranostic anticancer applications
(2020) 13 (21), art. no. 4899, pp. 1-16. Cited 8 times.
DOI: 10.3390/ma13214899
DOCUMENT TYPE: Article

Mauro, N., Utzeri, M.A., Drago, S.E., Buscarino, G., Cavallaro, G., Giammona, G.
Carbon nanodots as functional excipient to develop highly stable and smart PLGA nanoparticles useful in cancer theranostics
(2020) 12 (11), art. no. 1012, pp. 1-15. Cited 16 times.
DOI: 10.3390/pharmaceutics12111012
DOCUMENT TYPE: Article

Nicosia, A., Cavallaro, G., Costa, S., Utzeri, M.A., Cuttitta, A., Giammona, G., Mauro, N.
Carbon nanodots for on demand chemophothermal therapy combination to elicit necroptosis: Overcoming apoptosis resistance in breast cancer cell lines
(2020) 12 (11), art. no. 3114, pp. 1-23. Cited 19 times.
DOI: 10.3390/cancers12113114
DOCUMENT TYPE: Article

Puleio, R., Licciardi, M., Varvarà, P., Scialabba, C., Cassata, G., Cicero, L., Cavallaro, G., Giammona, G.
Effect of actively targeted copolymer coating on solid tumors eradication by gold nanorods-induced hyperthermia
(2020) 587, art. no. 119641, . Cited 17 times.
DOI: 10.1016/j.ijpharm.2020.119641
DOCUMENT TYPE: Article

Craparo, E.F., Drago, S.E., Giammona, G., Cavallaro, G.
Production of polymeric micro- and nanostructures with tunable properties as pharmaceutical delivery systems
(2020) 200, art. no. 122596, . Cited 10 times.
DOI: 10.1016/j.polymer.2020.122596
DOCUMENT TYPE: Article

Porsio, B., Lentini, L., Ungaro, F., Di Leonardo, A., Quaglia, F., Giammona, G., Cavallaro, G.
Inhalable nano into micro dry powders for ivacaftor delivery: The role of mannitol and cysteamine as mucus-active agents
(2020) 582, art. no. 119304, . Cited 8 times.
DOI: 10.1016/j.ijpharm.2020.119304
DOCUMENT TYPE: Article

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ANNEXES

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