# Manuela Igartua

## List of Publications by Citations



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|---|---|---|---|
| 72 papers | 2,145 citations | 26 h-index | 45 g-index |
| 73 ext. papers | 2,545 ext. citations | 6.9 avg, IF | 5.02 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 72 | Nanoparticle delivery systems for cancer therapy: advances in clinical and preclinical research. *Clinical and Translational Oncology*, **2012**, 14, 83-93 | 3.6 | 209 |
| 71 | Advances in drug delivery systems (DDSs) to release growth factors for wound healing and skin regeneration. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2015**, 11, 1551-73 | 6 | 160 |
| 70 | Cell microencapsulation technology for biomedical purposes: novel insights and challenges. *Trends in Pharmacological Sciences*, **2003**, 24, 207-10 | 13.2 | 114 |
| 69 | A novel strategy for the treatment of chronic wounds based on the topical administration of rhEGF-loaded lipid nanoparticles: In vitro bioactivity and in vivo effectiveness in healing-impaired db/db mice. *Journal of Controlled Release*, **2014**, 185, 51-61 | 11.7 | 113 |
| 68 | Chitosan coated nanostructured lipid carriers for brain delivery of proteins by intranasal administration. *Colloids and Surfaces B: Biointerfaces*, **2015**, 134, 304-13 | 6 | 99 |
| 67 | Novel nanofibrous dressings containing rhEGF and Aloe vera for wound healing applications. *International Journal of Pharmaceutics*, **2017**, 523, 556-566 | 6.5 | 99 |
| 66 | The topical administration of rhEGF-loaded nanostructured lipid carriers (rhEGF-NLC) improves healing in a porcine full-thickness excisional wound model. *Journal of Controlled Release*, **2015**, 197, 41-7 | 11.7 | 77 |
| 65 | Intranasal Administration of TAT-Conjugated Lipid Nanocarriers Loading GDNF for Parkinson\s Disease. *Molecular Neurobiology*, **2018**, 55, 145-155 | 6.2 | 65 |
| 64 | Nanoparticle transport across in vitro olfactory cell monolayers. *International Journal of Pharmaceutics*, **2016**, 499, 81-89 | 6.5 | 59 |
| 63 | LL37 loaded nanostructured lipid carriers (NLC): A new strategy for the topical treatment of chronic wounds. *European Journal of Pharmaceutics and Biopharmaceutics*, **2016**, 108, 310-316 | 5.7 | 59 |
| 62 | rhEGF-loaded PLGA-Alginate microspheres enhance the healing of full-thickness excisional wounds in diabetised Wistar rats. *European Journal of Pharmaceutical Sciences*, **2013**, 50, 243-52 | 5.1 | 54 |
| 61 | Encapsulated cell technology: from research to market. *Trends in Biotechnology*, **2002**, 20, 382-7 | 15.1 | 51 |
| 60 | Beneficial effects of n-3 polyunsaturated fatty acids administration in a partial lesion model of Parkinson\s disease: The role of glia and NRf2 regulation. *Neurobiology of Disease*, **2019**, 121, 252-262 | 7.5 | 47 |
| 59 | In vivo administration of VEGF- and GDNF-releasing biodegradable polymeric microspheres in a severe lesion model of Parkinson\s disease. *European Journal of Pharmaceutics and Biopharmaceutics*, **2013**, 85, 1183-90 | 5.7 | 46 |
| 58 | VEGF-releasing biodegradable nanospheres administered by craniotomy: a novel therapeutic approach in the APP/Ps1 mouse model of Alzheimer\s disease. *Journal of Controlled Release*, **2013**, 170, 111-9 | 11.7 | 45 |
| 57 | Enhancing immunogenicity to PLGA microparticulate systems by incorporation of alginate and RGD-modified alginate. *European Journal of Pharmaceutical Sciences*, **2011**, 44, 32-40 | 5.1 | 44 |
| 56 | Chronic wounds: Current status, available strategies and emerging therapeutic solutions. *Journal of Controlled Release*, **2020**, 328, 532-550 | 11.7 | 43 |

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|---|---|---|---|
| 55 | An overview on the field of micro- and nanotechnologies for synthetic Peptide-based vaccines. *Journal of Drug Delivery*, **2011**, 2011, 181646 | 2.3 | 40 |
| 54 | Structure-properties relationship of chitosan/collagen films with potential for biomedical applications. *Carbohydrate Polymers*, **2020**, 237, 116159 | 10.3 | 37 |
| 53 | Composite nanofibrous membranes of PLGA/Aloe vera containing lipid nanoparticles for wound dressing applications. *International Journal of Pharmaceutics*, **2019**, 556, 320-329 | 6.5 | 36 |
| 52 | Increased antiparkinson efficacy of the combined administration of VEGF- and GDNF-loaded nanospheres in a partial lesion model of Parkinson\'s disease. *International Journal of Nanomedicine*, **2014**, 9, 2677-87 | 7.3 | 35 |
| 51 | Combination of immune stimulating adjuvants with poly(lactide-co-glycolide) microspheres enhances the immune response of vaccines. *Vaccine*, **2012**, 30, 589-96 | 4.1 | 35 |
| 50 | Gamma-irradiation effects on biopharmaceutical properties of PLGA microspheres loaded with SPf66 synthetic vaccine. *European Journal of Pharmaceutics and Biopharmaceutics*, **2008**, 69, 519-26 | 5.7 | 35 |
| 49 | Malaria vaccine adjuvants: latest update and challenges in preclinical and clinical research. *BioMed Research International*, **2013**, 2013, 282913 | 3 | 31 |
| 48 | Design of a composite drug delivery system to prolong functionality of cell-based scaffolds. *International Journal of Pharmaceutics*, **2011**, 407, 142-50 | 6.5 | 30 |
| 47 | Ultra thin hydro-films based on lactose-crosslinked fish gelatin for wound healing applications. *International Journal of Pharmaceutics*, **2017**, 530, 455-467 | 6.5 | 26 |
| 46 | Multifunctional hydrogel-based scaffold for improving the functionality of encapsulated therapeutic cells and reducing inflammatory response. *Acta Biomaterialia*, **2014**, 10, 4206-16 | 10.8 | 25 |
| 45 | Advances in nanomedicine for the treatment of Alzheimer\'s and Parkinson\'s diseases. *Nanomedicine*, **2016**, 11, 1267-85 | 5.6 | 25 |
| 44 | Determination of salbutamol enantiomers by high-performance capillary electrophoresis and its application to dissolution assays. *Journal of Pharmaceutical and Biomedical Analysis*, **1997**, 16, 357-66 | 3.5 | 24 |
| 43 | Enhancing immunogenicity and reducing dose of microparticulated synthetic vaccines: single intradermal administration. *Pharmaceutical Research*, **2004**, 21, 121-6 | 4.5 | 24 |
| 42 | Development of surface modified biodegradable polymeric nanoparticles to deliver GSE24.2 peptide to cells: a promising approach for the treatment of defective telomerase disorders. *European Journal of Pharmaceutics and Biopharmaceutics*, **2015**, 91, 91-102 | 5.7 | 22 |
| 41 | Design and evaluation of surface and adjuvant modified PLGA microspheres for uptake by dendritic cells to improve vaccine responses. *International Journal of Pharmaceutics*, **2015**, 496, 371-81 | 6.5 | 22 |
| 40 | Development of Bioinspired Gelatin and Gelatin/Chitosan Bilayer Hydrofilms for Wound Healing. *Pharmaceutics*, **2019**, 11, | 6.4 | 21 |
| 39 | Multifunctional biomimetic hydrogel systems to boost the immunomodulatory potential of mesenchymal stromal cells. *Biomaterials*, **2020**, 257, 120266 | 15.6 | 21 |
| 38 | Nanotechnology-based delivery systems to release growth factors and other endogenous molecules for chronic wound healing. *Journal of Drug Delivery Science and Technology*, **2017**, 42, 2-17 | 4.5 | 19 |

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| 37 | Preparation of sustained release hydrophilic matrices by melt granulation in a high-shear mixer. *Journal of Pharmacy and Pharmaceutical Sciences*, **2005**, 8, 132-40 | 3.4 | 17 |
| 36 | In vivo evaluation of two new sustained release formulations elaborated by one-step melt granulation: level A in vitro-in vivo correlation. *European Journal of Pharmaceutics and Biopharmaceutics*, **2010**, 75, 232-7 | 5.7 | 16 |
| 35 | Safety and effectiveness of sodium colistimethate-loaded nanostructured lipid carriers (SCM-NLC) against P. aeruginosa: in vitro and in vivo studies following pulmonary and intramuscular administration. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2019**, 18, 101-111 | 6 | 15 |
| 34 | Comparison of the adjuvanticity of two different delivery systems on the induction of humoral and cellular responses to synthetic peptides. *Drug Delivery*, **2010**, 17, 490-9 | 7 | 15 |
| 33 | GSE4 peptide suppresses oxidative and telomere deficiencies in ataxia telangiectasia patient cells. *Cell Death and Differentiation*, **2019**, 26, 1998-2014 | 12.7 | 13 |
| 32 | Soy protein and chitin sponge-like scaffolds: from natural by-products to cell delivery systems for biomedical applications. *Green Chemistry*, **2020**, 22, 3445-3460 | 10 | 13 |
| 31 | Topical resiquimod: a promising adjuvant for vaccine development?. *Expert Review of Vaccines*, **2010**, 9, 23-7 | 5.2 | 13 |
| 30 | Extracellular matrix protein microarray-based biosensor with single cell resolution: Integrin profiling and characterization of cell-biomaterial interactions. *Sensors and Actuators B: Chemical*, **2019**, 299, 126954 | 8.5 | 12 |
| 29 | Development and validation of a bioanalytical method for the simultaneous determination of heroin, its main metabolites, naloxone and naltrexone by LC-MS/MS in human plasma samples: Application to a clinical trial of oral administration of a heroin/naloxone formulation. *Journal of Pharmaceutical and Biomedical Analysis*, **2015**, 114, 105-12 | 3.5 | 12 |
| 28 | Controversies over stem cell research. *Trends in Biotechnology*, **2003**, 21, 109-12 | 15.1 | 12 |
| 27 | Mesenchymal stromal cell based therapies for the treatment of immune disorders: recent milestones and future challenges. *Expert Opinion on Drug Delivery*, **2020**, 17, 189-200 | 8 | 12 |
| 26 | The role of osmolarity adjusting agents in the regulation of encapsulated cell behavior to provide a safer and more predictable delivery of therapeutics. *Drug Delivery*, **2017**, 24, 1654-1666 | 7 | 11 |
| 25 | 3D Bioprinting of Functional Skin Substitutes: From Current Achievements to Future Goals. *Pharmaceuticals*, **2021**, 14, | 5.2 | 11 |
| 24 | Preparation and Characterization of Resveratrol Loaded Pectin/Alginate Blend Gastro-Resistant Microparticles. *Molecules*, **2018**, 23, | 4.8 | 10 |
| 23 | Plasmodium falciparum malaria vaccines: current status, pitfalls and future directions. *Expert Review of Vaccines*, **2012**, 11, 1071-86 | 5.2 | 10 |
| 22 | Overcoming the Inflammatory Stage of Non-Healing Wounds: In Vitro Mechanism of Action of Negatively Charged Microspheres (NCMs). *Nanomaterials*, **2020**, 10, | 5.4 | 8 |
| 21 | Nanotechnology approaches for skin wound regeneration using drug-delivery systems **2016**, 31-55 | | 7 |
| 20 | Designing improved poly lactic-co-glycolic acid microspheres for a malarial vaccine: incorporation of alginate and polyinosinic-polycytidilic acid. *Journal of Microencapsulation*, **2014**, 31, 560-6 | 3.4 | 6 |

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| 19 | Optoacoustic imaging enabled biodistribution study of cationic polymeric biodegradable nanoparticles. *Contrast Media and Molecular Imaging*, **2015**, 10, 421-7 | 3.2 | 6 |
| 18 | Development and validation of a rapid HPLC method for the quantification of GSE4 peptide in biodegradable PEI-PLGA nanoparticles. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2014**, 972, 95-101 | 3.2 | 4 |
| 17 | Mesenchymal Stromal Cell Secretome for the Treatment of Immune-Mediated Inflammatory Diseases: Latest Trends in Isolation, Content Optimization and Delivery Avenues. *Pharmaceutics*, **2021**, 13, | 6.4 | 4 |
| 16 | Nanostructured Lipid Carriers Made of  Polyunsaturated Fatty Acids: In Vitro Evaluation of Emerging Nanocarriers to Treat Neurodegenerative Diseases. *Pharmaceutics*, **2020**, 12, | 6.4 | 4 |
| 15 | GSE4-loaded nanoparticles a potential therapy for lung fibrosis that enhances pneumocyte growth, reduces apoptosis and DNA damage. *FASEB Journal*, **2021**, 35, e21422 | 0.9 | 4 |
| 14 | 3D encapsulation and inflammatory licensing of mesenchymal stromal cells alter the expression of common reference genes used in real-time RT-qPCR. *Biomaterials Science*, **2020**, 8, 6741-6753 | 7.4 | 3 |
| 13 | A glimmer of hope for diabetics?. *Trends in Biotechnology*, **2003**, 21, 289-90 | 15.1 | 2 |
| 12 | Nanotechnology Based Approaches for Neurodegenerative Disorders: Diagnosis and Treatment **2017**, 57-87 | | 2 |
| 11 | Nanotechnology-based drug-delivery systems releasing growth factors to the CNS **2016**, 371-402 | | 2 |
| 10 | Characterization of Bio-Inspired Electro-Conductive Soy Protein Films. *Polymers*, **2021**, 13, | 4.5 | 2 |
| 9 | Solid Lipid and Polymeric Nanoparticles for Drug Delivery **2007**, | | 1 |
| 8 | Human Hair Follicle-Derived Mesenchymal Stromal Cells from the Lower Dermal Sheath as a Competitive Alternative for Immunomodulation.. *Biomedicines*, **2022**, 10, | 4.8 | 1 |
| 7 | Bioactive and degradable hydrogel based on human platelet-rich plasma fibrin matrix combined with oxidized alginate in a diabetic mice wound healing model.. *Materials Science and Engineering C*, **2022**, 112695 | 8.3 | 1 |
| 6 | Latest advances to enhance the therapeutic potential of mesenchymal stromal cells for the treatment of immune-mediated diseases. *Drug Delivery and Translational Research*, **2021**, 11, 498-514 | 6.2 | 1 |
| 5 | The Role of Lipid Nanoparticles and its Surface Modification in Reaching the Brain: An Approach for Neurodegenerative Diseases Treatment. *Current Drug Delivery*, **2018**, 15, 1218-1220 | 3.2 | 1 |
| 4 | Cell-based dressings: A journey through chronic wound management **2022**, 212738 | | 1 |
| 3 | Mesenchymal stromal cells encapsulated in licensing hydrogels exert delocalized systemic protection against ulcerative colitis via subcutaneous xenotransplantation.. *European Journal of Pharmaceutics and Biopharmaceutics*, **2022**, 172, 31-31 | 5.7 | 0 |
| 2 | Dual effect of TAT functionalized DHAH lipid nanoparticles with neurotrophic factors in human BBB and microglia cultures.. *Fluids and Barriers of the CNS*, **2022**, 19, 22 | 7 | 0 |

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| 1 | Green hemostatic sponge-like scaffold composed of soy protein and chitin for the treatment of epistaxis.. *Materials Today Bio*, **2022**, 15, 100273 | 9.9 |