# Elena Garreta

List of Publications by Year
in descending order



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|---|---|---|---|
| 37 papers | 5,726 citations | 257450 24 h-index | 361022 35 g-index |
| 38 all docs | 38 docs citations | 38 times ranked | 10849 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Inhibition of SARS-CoV-2 Infections in Engineered Human Tissues Using Clinical-Grade Soluble Human ACE2. Cell, 2020, 181, 905-913.e7. | 28.9 | 1,827 |
| 2 | Efficient and rapid generation of induced pluripotent stem cells from human keratinocytes. Nature Biotechnology, 2008, 26, 1276-1284. | 17.5 | 1,275 |
| 3 | Disease-corrected haematopoietic progenitors from Fanconi anaemia induced pluripotent stem cells. Nature, 2009, 460, 53-59. | 27.8 | 660 |
| 4 | Active superelasticity in three-dimensional epithelia of controlled shape. Nature, 2018, 563, 203-208. | 27.8 | 223 |
| 5 | Tissue engineering by decellularization and 3D bioprinting. Materials Today, 2017, 20, 166-178. | 14.2 | 202 |
| 6 | Fine tuning the extracellular environment accelerates the derivation of kidney organoids from human pluripotent stem cells. Nature Materials, 2019, 18, 397-405. | 27.5 | 201 |
| 7 | Complete Meiosis from Human Induced Pluripotent Stem Cells. Stem Cells, 2011, 29, 1186-1195. | 3.2 | 177 |
| 8 | Osteogenic Differentiation of Mouse Embryonic Stem Cells and Mouse Embryonic Fibroblasts in a Three-Dimensional Self-Assembling Peptide Scaffold. Tissue Engineering, 2006, 12, 2215-2227. | 4.6 | 154 |
| 9 | Rethinking organoid technology through bioengineering. Nature Materials, 2021, 20, 145-155. | 27.5 | 150 |
| 10 | Effects of freezing/thawing on the mechanical properties of decellularized lungs. Journal of Biomedical Materials Research - Part A, 2014, 102, 413-419. | 4.0 | 85 |
| 11 | Generation of Pig iPS Cells: A Model for Cell Therapy. Journal of Cardiovascular Translational Research, 2011, 4, 121-130. | 2.4 | 84 |
| 12 | Local micromechanical properties of decellularized lung scaffolds measured with atomic force microscopy. Acta Biomaterialia, 2013, 9, 6852-6859. | 8.3 | 77 |
| 13 | Simple Generation of Human Induced Pluripotent Stem Cells Using Poly-Î²-amino Esters As the Non-viral Gene Delivery System. Journal of Biological Chemistry, 2011, 286, 12417-12428. | 3.4 | 68 |
| 14 | Generation of Feeder-Free Pig Induced Pluripotent Stem Cells without Pou5f1. Cell Transplantation, 2012, 21, 815-825. | 2.5 | 54 |
| 15 | Myocardial commitment from human pluripotent stem cells: Rapid production of human heart grafts. Biomaterials, 2016, 98, 64-78. | 11.4 | 52 |
| 16 | Effects of the Decellularization Method on the Local Stiffness of Acellular Lungs. Tissue Engineering - Part C: Methods, 2014, 20, 412-422. | 2.1 | 51 |
| 17 | Inhomogeneity of local stiffness in the extracellular matrix scaffold of fibrotic mouse lungs. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 37, 186-195. | 3.1 | 50 |
| 18 | Fabrication of a three-dimensional nanostructured biomaterial for tissue engineering of bone. New Biotechnology, 2007, 24, 75-80. | 2.7 | 42 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Fabrication of Bioactive Surfaces by Plasma Polymerization Techniques Using a Novel Acrylate-Derived Monomer. Plasma Processes and Polymers, 2005, 2, 605-611. | 3.0 | 41 |
| 20 | A diabetic milieu increases ACE2 expression and cellular susceptibility to SARS-CoV-2 infections in human kidney organoids and patient cells. Cell Metabolism, 2022, 34, 857-873.e9. | 16.2 | 40 |
| 21 | Bioelectronic Recordings of Cardiomyocytes with Accumulation Mode Electrolyte Gated Organic Field Effect Transistors. Biosensors and Bioelectronics, 2020, 150, 111844. | 10.1 | 36 |
| 22 | Regenerative strategies for kidney engineering. FEBS Journal, 2016, 283, 3303-3324. | 4.7 | 34 |
| 23 | Roadblocks in the Path of iPSC to the Clinic. Current Transplantation Reports, 2018, 5, 14-18. | 2.0 | 30 |
| 24 | Low oxygen tension enhances the generation of lung progenitor cells from mouse embryonic and induced pluripotent stem cells. Physiological Reports, 2014, 2, e12075. | 1.7 | 25 |
| 25 | Modeling epigenetic modifications in renal development and disease with organoids and genome editing. DMM Disease Models and Mechanisms, 2018, 11, . | 2.4 | 17 |
| 26 | Evidence in favor of the essentiality of human cell membrane-bound ACE2 and against soluble ACE2 for SARS-CoV-2 infectivity. Cell, 2022, 185, 1837-1839. | 28.9 | 17 |
| 27 | A bioreactor for subjecting cultured cells to fast-rate intermittent hypoxia. Respiratory Physiology and Neurobiology, 2012, 182, 47-52. | 1.6 | 16 |
| 28 | Studying Kidney Disease Using Tissue and Genome Engineering in Human Pluripotent Stem Cells. Nephron, 2018, 138, 48-59. | 1.8 | 10 |
| 29 | Plasma Polymerization on Hydroxyapatite Powders to Increase Water Dispersability for Biomedical Applications. Plasma Processes and Polymers, 2006, 3, 553-561. | 3.0 | 8 |
| 30 | Kidney organoids for disease modeling. Oncotarget, 2018, 9, 12552-12553. | 1.8 | 6 |
| 31 | Non-coding microRNAs for cardiac regeneration: Exploring novel alternatives to induce heart healing. Non-coding RNA Research, 2017, 2, 93-99. | 4.6 | 5 |
| 32 | â€œHuman iPSC-derived kidney organoids towards clinical implementationsâ€. Current Opinion in Biomedical Engineering, 2021, 20, 100346. | 3.4 | 4 |
| 33 | Directed Differentiation of Human Pluripotent Stem Cells for the Generation of High-Order Kidney Organoids. Methods in Molecular Biology, 2021, 2258, 171-192. | 0.9 | 2 |
| 34 | Genome editing in human pluripotent stem cells: a systematic approach unrevealing pancreas development and disease. Stem Cell Investigation, 2016, 3, 76-76. | 3.0 | 1 |
| 35 | Dissecting nephron morphogenesis using kidney organoids from human pluripotent stem cells. Current Opinion in Genetics and Development, 2022, 72, 22-29. | 3.3 | 1 |
| 36 | Research on Skeletal Muscle Diseases Using Pluripotent Stem Cells. , 0, , . |  | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Pluripotent Stem Cells and Skeletal Muscle Differentiation: Challenges and Immediate Applications. , 2017, , 1-35. | | 0 |