

# JosÃ© Miguel RodrÃ­guez-Frade

## List of Publications by Year in descending order

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85  
papers

5,515  
citations

101543

36  
h-index

79698

73  
g-index

86  
all docs

86  
docs citations

86  
times ranked

6144  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | The chemokine SDF-1 triggers CXCR4 receptor dimerization and activates the JAK/STAT pathway. <i>FASEB Journal</i> , 1999, 13, 1699-1710.   | 0.5  | 469       |
| 2  | Chemokine receptor homo- or heterodimerization activates distinct signaling pathways. <i>EMBO Journal</i> , 2001, 20, 2497-2507.   | 7.8  | 392       |
| 3  | Chemokine Signaling and Functional Responses: The Role of Receptor Dimerization and TK Pathway Activation. <i>Annual Review of Immunology</i> , 2001, 19, 397-421.   | 21.8 | 347       |
| 4  | Role of the Pi3k Regulatory Subunit in the Control of Actin Organization and Cell Migration. <i>Journal of Cell Biology</i> , 2000, 151, 249-262.  | 5.2  | 222       |
| 5  | T cell migration in rheumatoid arthritis. <i>Frontiers in Immunology</i> , 2015, 6, 384.   | 4.8  | 221       |
| 6  | The chemokine monocyte chemoattractant protein-1 induces functional responses through dimerization of its receptor CCR2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999, 96, 3628-3633.       | 7.1  | 216       |
| 7  | Expression of Functional Chemokine Receptors CXCR3 and CXCR4 on Human Melanoma Cells. <i>Journal of Biological Chemistry</i> , 2001, 276, 45098-45105.   | 3.4  | 203       |
| 8  | Polarization of Chemokine Receptors to the Leading Edge during Lymphocyte Chemotaxis. <i>Journal of Experimental Medicine</i> , 1997, 186, 153-158.  | 8.5  | 202       |
| 9  | Identification of amino acid residues crucial for chemokine receptor dimerization. <i>Nature Immunology</i> , 2004, 5, 216-223.  | 14.5 | 176       |
| 10 | Monocyte chemoattractant protein-1-induced CCR2B receptor desensitization mediated by the G protein-coupled receptor kinase 2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 2985-2990. | 7.1  | 153       |
| 11 | CXCR3 Chemokine Receptor Distribution in Normal and Inflamed Tissues: Expression on Activated Lymphocytes, Endothelial Cells, and Dendritic Cells. <i>Laboratory Investigation</i> , 2001, 81, 409-418.                                      | 3.7  | 147       |
| 12 | Ligand stabilization of CXCR4/Î³opioid receptor heterodimers reveals a mechanism for immune response regulation. <i>European Journal of Immunology</i> , 2008, 38, 537-549.  | 2.9  | 132       |
| 13 | A potential immune escape mechanism by melanoma cells through the activation of chemokine-induced T cell death. <i>Current Biology</i> , 2001, 11, 691-696.  | 3.9  | 121       |
| 14 | The Role of the CXCL12/CXCR4/ACKR3 Axis in Autoimmune Diseases. <i>Frontiers in Endocrinology</i> , 2019, 10, 585.   | 3.5  | 121       |
| 15 | Chemokine control of HIV-1 infection. <i>Nature</i> , 1999, 400, 723-724.  | 27.8 | 118       |
| 16 | Similarities and Differences in RANTES- and (AOP)-RANTES-triggered Signals: Implications for Chemotaxis. <i>Journal of Cell Biology</i> , 1999, 144, 755-765.  | 5.2  | 115       |
| 17 | Chemokine receptor dimerization: two are better than one. <i>Trends in Immunology</i> , 2001, 22, 612-617.   | 6.8  | 113       |
| 18 | The chemokine SDF-1 triggers a chemotactic response and induces cell polarization in human B lymphocytes. <i>European Journal of Immunology</i> , 1998, 28, 2197-2207.   | 2.9  | 102       |

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|----|---|-----|-----------|
| 19 | Chemokines integrate JAK/STAT and G-protein pathways during chemotaxis and calcium flux responses. <i>European Journal of Immunology</i> , 2003, 33, 1328-1333.   | 2.9 | 101       |
| 20 | The amino-terminal domain of the CCR2 chemokine receptor acts as coreceptor for HIV-1 infection. <i>Journal of Clinical Investigation</i> , 1997, 100, 497-502.   | 8.2 | 101       |
| 21 | Leukocyte attraction through the CCR5 receptor controls progress from insulinitis to diabetes in non-obese diabetic mice. <i>European Journal of Immunology</i> , 2004, 34, 548-557.  | 2.9 | 90        |
| 22 | CCR7-mediated physiological lymphocyte homing involves activation of a tyrosine kinase pathway. <i>Blood</i> , 2003, 101, 38-44.  | 1.4 | 80        |
| 23 | The Chemokine Stromal Cell-Derived Factor-1 $\alpha$ Modulates $\alpha$ 4 $\beta$ 7 Integrin-Mediated Lymphocyte Adhesion to Mucosal Addressin Cell Adhesion Molecule-1 and Fibronectin. <i>Journal of Immunology</i> , 2002, 168, 5268-5277. | 0.8 | 73        |
| 24 | HIV-1 infection through the CCR5 receptor is blocked by receptor dimerization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 3388-3393.  | 7.1 | 73        |
| 25 | Autocrine Production of IFN- $\beta$ by Macrophages Controls Their Recruitment to Kidney and the Development of Glomerulonephritis in MRL/lpr Mice. <i>Journal of Immunology</i> , 2002, 169, 1058-1067.                                      | 0.8 | 71        |
| 26 | Separating Actin-Dependent Chemokine Receptor Nanoclustering from Dimerization Indicates a Role for Clustering in CXCR4 Signaling and Function. <i>Molecular Cell</i> , 2018, 70, 106-119.e10.  | 9.7 | 70        |
| 27 | Blocking HIV-1 infection via CCR5 and CXCR4 receptors by acting in trans on the CCR2 chemokine receptor. <i>EMBO Journal</i> , 2004, 23, 66-76.   | 7.8 | 68        |
| 28 | Conformational Changes Required in the Human Growth Hormone Receptor for Growth Hormone Signaling. <i>Journal of Biological Chemistry</i> , 1997, 272, 9189-9196.   | 3.4 | 65        |
| 29 | Chemokine receptor oligomerization: functional considerations. <i>Current Opinion in Pharmacology</i> , 2010, 10, 38-43.  | 3.5 | 64        |
| 30 | Functional Inactivation of CXC Chemokine Receptor 4 $\alpha$ -mediated Responses through SOCS3 Up-regulation. <i>Journal of Experimental Medicine</i> , 2002, 196, 311-321.   | 8.5 | 61        |
| 31 | Determination of human growth hormone in human serum samples by surface plasmon resonance immunoassay. <i>Talanta</i> , 2009, 78, 1011-1016.  | 5.5 | 61        |
| 32 | Surface plasmon resonance immunoassay analysis of pituitary hormones in urine and serum samples. <i>Clinica Chimica Acta</i> , 2009, 403, 56-62.  | 1.1 | 59        |
| 33 | CCR5/CD4/CXCR4 oligomerization prevents HIV-1 gp120 <sub>IIIb</sub> binding to the cell surface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E1960-9.                                 | 7.1 | 45        |
| 34 | Functional expression of chemokine receptor 2 by normal human eosinophils. <i>Journal of Allergy and Clinical Immunology</i> , 2001, 108, 581-587.  | 2.9 | 44        |
| 35 | Dynamic Regulation of CXCR1 and CXCR2 Homo- and Heterodimers. <i>Journal of Immunology</i> , 2009, 183, 7337-7346.  | 0.8 | 44        |
| 36 | Analysis of G-protein-coupled receptor dimerization following chemokine signaling. <i>Methods</i> , 2002, 27, 349-357.  | 3.8 | 43        |

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|----|---|------|-----------|
| 37 | Chemokine receptor oligomerization: A further step toward chemokine function. <i>Immunology Letters</i> , 2012, 145, 23-29.   | 2.5  | 40        |
| 38 | Chemokine Receptor 2 Blockade Prevents Asthma in a Cynomolgus Monkey Model. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2008, 324, 769-775.                                | 2.5  | 37        |
| 39 | EBI2 regulates CXCL13-mediated responses by heterodimerization with CXCR5. <i>FASEB Journal</i> , 2012, 26, 4841-4854.  | 0.5  | 35        |
| 40 | SARS-CoV-2 Cysteine-like Protease Antibodies Can Be Detected in Serum and Saliva of COVID-19 Seropositive Individuals. <i>Journal of Immunology</i> , 2020, 205, 3130-3140.                   | 0.8  | 32        |
| 41 | Th17 polarization of memory Th cells in early arthritis: the vasoactive intestinal peptide effect. <i>Journal of Leukocyte Biology</i> , 2015, 98, 257-269.                                   | 3.3  | 31        |
| 42 | PI3K $\beta$ activation by CXCL12 regulates tumor cell adhesion and invasion. <i>Biochemical and Biophysical Research Communications</i> , 2009, 388, 199-204.                                | 2.1  | 28        |
| 43 | Deregulated cellular circuits driving immunoglobulins and complement consumption associate with the severity of COVID-19 patients. <i>European Journal of Immunology</i> , 2021, 51, 634-647. | 2.9  | 27        |
| 44 | Opioids Trigger $\alpha 5 \beta 1$ Integrin-Mediated Monocyte Adhesion. <i>Journal of Immunology</i> , 2006, 176, 1675-1685.  | 0.8  | 26        |
| 45 | CXCL12 Regulates through JAK1 and JAK2 Formation of Productive Immunological Synapses. <i>Journal of Immunology</i> , 2015, 194, 5509-5519.   | 0.8  | 26        |
| 46 | HIV-1 envelope protein gp120 triggers a Th2 response in mice that shifts to Th1 in the presence of human growth hormone. <i>Vaccine</i> , 1998, 16, 1111-1115.                                | 3.8  | 25        |
| 47 | Remodeling our concept of chemokine receptor function: From monomers to oligomers. <i>Journal of Leukocyte Biology</i> , 2018, 104, 323-331.  | 3.3  | 25        |
| 48 | SOCS up-regulation mobilizes autologous stem cells through CXCR4 blockade. <i>Blood</i> , 2006, 108, 3928-3937.   | 1.4  | 24        |
| 49 | Characterization of monoclonal antibodies specific for the human growth hormone 22K and 20K isoforms. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1996, 81, 1613-1618.          | 3.6  | 24        |
| 50 | Single- and multi-analyte determination of gonadotropic hormones in urine by Surface Plasmon Resonance immunoassay. <i>Analytica Chimica Acta</i> , 2009, 647, 202-209.                       | 5.4  | 23        |
| 51 | Technical Advance: Surface plasmon resonance-based analysis of CXCL12 binding using immobilized lentiviral particles. <i>Journal of Leukocyte Biology</i> , 2011, 90, 399-408.                | 3.3  | 23        |
| 52 | Receptor oligomerization: A pivotal mechanism for regulating chemokine function. , 2011, 131, 351-358.  |      | 22        |
| 53 | Response to "On the dimerization of CCR5". <i>Nature Immunology</i> , 2005, 6, 535-536.   | 14.5 | 20        |
| 54 | Real-time detection of the chemokine CXCL12 in urine samples by surface plasmon resonance. <i>Talanta</i> , 2013, 109, 209-215.   | 5.5  | 20        |

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|----|---|-----|-----------|
| 55 | CXCR4-mediated Suppressor of Cytokine Signaling Up-regulation Inactivates Growth Hormone Function. <i>Journal of Biological Chemistry</i> , 2004, 279, 44460-44466.   | 3.4 | 18        |
| 56 | Expression analysis of the thyrotropin-releasing hormone receptor (TRHR) in the immune system using agonist anti-TRHR monoclonal antibodies. <i>FEBS Letters</i> , 1999, 451, 308-314.                                  | 2.8 | 17        |
| 57 | Suppressor of cytokine signaling 1 blocks mitosis in human melanoma cells. <i>Cellular and Molecular Life Sciences</i> , 2013, 70, 545-558.   | 5.4 | 17        |
| 58 | Implementation of a SPR immunosensor for the simultaneous detection of the 22K and 20K hGH isoforms in human serum samples. <i>Talanta</i> , 2013, 114, 268-275.  | 5.5 | 16        |
| 59 | Activation pathways of $\alpha 4 \beta 1$ integrin leading to distinct T-cell cytoskeleton reorganization, Rac1 regulation and Pyk2 phosphorylation. <i>Journal of Cellular Physiology</i> , 2006, 207, 746-756.        | 4.1 | 15        |
| 60 | Growth Hormone Reprograms Macrophages toward an Anti-Inflammatory and Reparative Profile in an MAFB-Dependent Manner. <i>Journal of Immunology</i> , 2020, 205, 776-788.  | 0.8 | 14        |
| 61 | Activation of Th lymphocytes alters pattern expression and cellular location of VIP receptors in healthy donors and early arthritis patients. <i>Scientific Reports</i> , 2019, 9, 7383.                                | 3.3 | 12        |
| 62 | Chemokine Signaling Defines Novel Targets for Therapeutic Intervention. <i>Mini-Reviews in Medicinal Chemistry</i> , 2005, 5, 781-789.  | 2.4 | 11        |
| 63 | The multilayered complexity of the chemokine receptor system. <i>Biochemical and Biophysical Research Communications</i> , 2020, 528, 347-358.  | 2.1 | 11        |
| 64 | A framework for computational and experimental methods: Identifying dimerization residues in CCR chemokine receptors. <i>Bioinformatics</i> , 2005, 21, ii13-ii18.  | 4.1 | 9         |
| 65 | Janus kinases 1 and 2 regulate chemokine-mediated integrin activation and naive T cell homing. <i>European Journal of Immunology</i> , 2013, 43, 1745-1757.   | 2.9 | 9         |
| 66 | Inhibitory Role of Growth Hormone in the Induction and Progression Phases of Collagen-Induced Arthritis. <i>Frontiers in Immunology</i> , 2018, 9, 1165.  | 4.8 | 9         |
| 67 | CXCL12-Mediated Murine Neural Progenitor Cell Movement Requires PI3K $\beta$ Activation. <i>Molecular Neurobiology</i> , 2013, 48, 217-231.   | 4.0 | 8         |
| 68 | Methods to Immobilize GPCR on the Surface of SPR Sensors. <i>Methods in Molecular Biology</i> , 2015, 1272, 173-188.  | 0.9 | 7         |
| 69 | Altered CXCR4 dynamics at the cell membrane impairs directed cell migration in WHIM syndrome patients. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2119483119. | 7.1 | 7         |
| 70 | G Protein-Coupled Receptor Dimerization and Signaling. , 2006, 332, 141-158.  |     | 6         |
| 71 | Use of Lentiviral Particles As a Cell Membrane-Based mFasL Delivery System for In Vivo Treatment of Inflammatory Arthritis. <i>Frontiers in Immunology</i> , 2017, 8, 460.  | 4.8 | 5         |
| 72 | DeltaGHR, a Novel Biosafe Cell Surface-Labeling Molecule for Analysis and Selection of Genetically Transduced Human Cells. <i>Human Gene Therapy</i> , 2000, 11, 333-346.   | 2.7 | 4         |

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|----|---|-----|-----------|
| 73 | Chemokine Receptor Dimerization and Chemotaxis. <i>Methods in Molecular Biology</i> , 2009, 571, 179-198.   | 0.9 | 4         |
| 74 | Chapter 5 Multiple Approaches to the Study of Chemokine Receptor Homo- and Heterodimerization. <i>Methods in Enzymology</i> , 2009, 461, 105-122.   | 1.0 | 3         |
| 75 | Use of Resonance Energy Transfer Techniques for In Vivo Detection of Chemokine Receptor Oligomerization. <i>Methods in Molecular Biology</i> , 2016, 1407, 341-359.                                       | 0.9 | 3         |
| 76 | Sphingomyelin Depletion Inhibits CXCR4 Dynamics and CXCL12-Mediated Directed Cell Migration in Human T Cells. <i>Frontiers in Immunology</i> , 0, 13, .   | 4.8 | 3         |
| 77 | Drug Testing in Cellular Chemotaxis Assays. <i>Current Protocols in Pharmacology</i> , 2008, 41, Unit 12.11.  | 4.0 | 2         |
| 78 | Chemokine Detection Using Receptors Immobilized on an SPR Sensor Surface. <i>Methods in Enzymology</i> , 2016, 570, 1-18.   | 1.0 | 2         |
| 79 | Image Processing Protocol for the Analysis of the Diffusion and Cluster Size of Membrane Receptors by Fluorescence Microscopy. <i>Journal of Visualized Experiments</i> , 2019, , .                       | 0.3 | 2         |
| 80 | Chemokine receptor-mediated signal transduction. , 2006, , 91-108.  |     | 1         |
| 81 | G Protein-Coupled-Receptor Mediated STAT Activation. , 2003, , 191-206.   |     | 1         |
| 82 | Chemokine Signaling: The Functional Importance of Stabilizing Receptor Conformations. , 2005, , 153-170.  |     | 0         |
| 83 | Functional consequences of chemokine receptor dimerization. , 0, , 111-124.   |     | 0         |
| 84 | AB0164-...Analysis of Jak-Stat-Socs Signal Pathway mRNA Expression in Ankylosing Spondylitis (AS) Patients with Peripheral Arthritis (PA). <i>Annals of the Rheumatic Diseases</i> , 2014, 73, 857.1-857. | 0.9 | 0         |
| 85 | SAT0032-...ACTIVATION OF TH LYMPHOCYTES ALTERS THE PATTERN EXPRESSION AND CELLULAR LOCATION OF VIP RECEPTORS IN HEALTHY DONORS AND EARLY ARTHRITIS PATIENTS. , 2019, , .                                  |     | 0         |