
SHORT CURRICULUM VITAE

NAME David Sancho Madrid	POSITION TITLE Assistant Professor
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EDUCATION & TRAINING

END MONTH/YEAR	DEGREE	INSTITUTION AND LOCATION	TRAINING MENTOR	SCIENTIFIC DISCIPLINE
Aug 2009	Post-doctoral Fellow	LRI, CRUK, London, UK	C. Reis e Sousa	Immunology
Aug 2004	Post-doctoral Fellow	La Princesa Hospital, Madrid	F.Sánchez-Madrid	Immunology
Nov 2003	Ph.D. degree	UAM, Madrid	F.Sánchez-Madrid	Immunology
May 2000	Clinical Specialization in Immunology (BIR)	La Princesa Hospital, Madrid	F.Sánchez-Madrid	Immunology
Jul 1995	BSc degree	School of Biology. Murcia		

PROFESSIONAL POSITIONS:

START MONTH/YEAR	END MONTH/YEAR	POSITION TITLE	PROGRAM	INSTITUTION AND LOCATION
09/2010	To date	Assistant Professor	Metabolism	CNIC, Madrid, Spain

PREVIOUS CONTRACTS AND FELLOWSHIPS

- 11/2009 – 08/2010 Ramón y Cajal fellow, CNIC, Spain (Ranked 1st, Biomedicine).
- 09/2004 – 08/2009 Cancer Research UK postdoctoral Fellowship, London, UK
- 06/2006 – 05/2008 Marie Curie IEF within the 6th EC Framework Programme (MEIF-CT-2005-009205)
- 09/2004 – 05/2006 Long-term Fellowship from EMBO (ALTF 336-2004)
- 11/2001 – 08/2004 Research fellowship from the Instituto de Salud Carlos III (BEFI)
- 05/2000 – 10/2001 “Severo Ochoa” predoctoral fellowship from Ferrer Foundation
- 04/1996 – 04/2000 Clinical Specialization in Immunology via B.I.R. (Internship, Ranked 1st at Selection)

SIGNIFICANT PROFESSIONAL ACTIVITIES

- Executive Editor for *Inmunología*, Official Scientific Journal of the Spanish Society for Immunology (since 2013).
- Elected member of the Directive Board of Spanish Society for Immunology (since 2014).
- Member of the Board of the Spanish Immunotherapy Group (since 2014).
- Co-organizer in 2 national and 3 international meetings over 100 attendants.
- Lecturer at Master's degree in several Spanish Universities. Honorary Professor for Universidad Autónoma de Madrid.
- Supervision of 4 postdoctoral researchers, 7 PhD students, 7 master students and 3 technicians since 2011.
- One doctoral thesis directed (Defended Nov 2014, Noelia Blanco-Menéndez, maximum score).
- Reviewer for Scientific Journals (including Immunity, J. Exp. Med., Sci. Signal., Cancer Res., PLOS Pathog., J. Immunol., Eur. J. Immunol, J. Biol. Chem, Clin. Cancer Res., J. Leuk. Biol.).
- Grant reviewer for National and International Research Agencies.

ACADEMIC HONORS, AWARDS and FELLOWSHIPS

- 2010 ERC starting Grant Award. European Research Council
 - 2010 Hardiman-Redon Prize. Cancer Research UK, London Research Institute
 - 2005 “Ramón Areces” prize for best doctoral thesis. Royal National Academy of Doctors
 - 2004 Prize for best doctoral thesis. Molecular Biology Centre, Madrid Autonomous University
 - 2004 Pfizer Foundation Basic Research Prize for the article Sancho et al. J. Clin. Invest. 2003.
 - 2004 Extraordinary Prize for Ph.D thesis. Madrid Autonomous University.
 - 1995 First National Prize for University Graduation. Spanish Ministry of Education.
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INDICATORS OF SCIENTIFIC PRODUCTION (ISI-WoS, Journal of Citations Reports)

Total publications: 62, 52 in 1st quartile, Q1; 31 in 1st decile, D1. *Primary research: 52* (46 Q1, 25 D1). *Cumulative IF: 587.43; IF/article: 9.47; Total citations: 3629.*

Total publications as main author (1st author or senior/corresponding): **20** (19 Q1, 12 D1); *Primary research: 14* (14 Q1, 8 D1); *Cumulative IF: 244; IF/article: 12.2; Total citations as main author: 1322.*

h-index: 35; *h-index excluding reviews: 30.*

SELECTED PEER-REVIEWED PUBLICATIONS

Keys: §: corresponding author. *: Equal contribution. **NC:** Citations **IF:** Impact Factor in publication year (ISI-JCR)

IN PRESS manuscript as last & corresponding author

Iborra S[§], Martínez-López M*, Cueto FJ, Conde-Garrosa R, Del Fresno C, Izquierdo HM, Abram CL, Mori D, Campos-Martín Y, Reguera RM, Kemp B, Yamasaki S, Robinson MJ, Soto M, Lowell CA **Sancho D**[§]. Leishmania uses Mincle to target an inhibitory ITAM pathway in dendritic cells that dampens adaptive immunity to infection. *Immunity (in press)*, DOI 10.1016/j.immuni.2016.09.012. *IF: 24.082*

PUBLICATIONS AS MAIN AUTHOR: (First or last & corresponding author)

21. Iborra S[§], Martínez-López M, Khouili SC, Enamorado M, Cueto FJ, Conde-Garrosa R, del Fresno C, **Sancho D**[§]. Optimal generation of tissue-resident but not circulating memory T cells during viral infection requires crosspriming by DNGR-1+ dendritic cells. *Immunity* 2016, DOI: 10.1016/j.immuni.2016.08.019. *IF: 24.082*

20. Garaude J^{*§}, Acín-Pérez R*, Martínez-Cano S, Enamorado M, Ugolini M, Nistal-Villán E, Hervás-Stubbs S, Pelegrín P, Sander LE, Enríquez JA[§], **Sancho D**[§]. Mitochondrial respiratory-chain adaptations in macrophages contribute to antibacterial host defense. *Nat. Immunol.* 2016, 17(9):1037-45. *IF: 20.004.*

19. Sanchez-Paulete AR, Cueto FJ, Martinez-Lopez M, Labiano S, Morales-Kastresana A, Rodriguez-Ruiz ME, Jurek-Kunkel M, Azpilikueta A, Aznar MA, Quetglas JI, **Sancho D**^{*§}, Melero I^{*§}. Cancer immunotherapy with immunomodulatory anti-CD137 and anti-PD-1 monoclonal Abs requires Batf3-dependent DCs. *Cancer Discov.* 2016 6(1):71-9. *NC: 3. IF: 19.45.*

18. Blanco-Menéndez N, Del Fresno C, Fernandes S, Calvo E, Conde-Garrosa R, Kerr WG, **Sancho D**[§]. SHIP-1 Couples to the Dectin-1 hemITAM and Selectively Modulates Reactive Oxygen Species Production in Dendritic Cells in Response to Candida albicans. *J. Immunol.* 2015 Nov 1;195(9):4466-78. *IF: 5.362*

17. **Sancho D**, Villar LM, Regueiro JR, de Andres B. Spanish Immunology on the move. *Eur J Immunol.* 2015. 45:1580-3. *IF: 4.03*

16. Martinez-Lopez M, Iborra S, Conde-Garrosa R, **Sancho D**[§]. Batf3-dependent CD103 dendritic cells are major producers of IL-12 that drive local Th1 immunity against L. major infection in mice. *Eur J Immunol.* 2015. 45:119-29. *NC: 5. IF: 4.03.*

15. Iborra S, **Sancho D**[§]. Signaling versatility following self and non-self sensing by myeloid C-type lectin receptors. *Immunobiology.* 2015. 220:175-84. *NC: 3. IF: 3.04.*

14. **Sancho D**[§], Reis E Sousa C[§]. Sensing of cell death by myeloid C-type lectin receptors. *Curr Opin Immunol.* 2013 25: 46-52. *NC: 22. IF: 8.77.*

13. Iborra S, Izquierdo HM, Martínez-López M, Blanco-Menéndez N, Reis e Sousa C, **Sancho D**[§]. The DC receptor DNGR-1 mediates cross-priming of CTLs during vaccinia virus infection in mice. *J Clin Invest.* 2012 May 1;122(5):1628-43. *NC: 41. IF: 12.81.*

12. **Sancho D**[§], Reis e Sousa C[§]. Signaling by myeloid C-type lectin receptors in immunity and homeostasis. *Annu Rev Immunol.* 2012; 30:491-529. *NC: 130. IF: 36.55*

11. **Sancho D**^{*}, Joffre OP*, Keller AM, Rogers NC, Martínez D, Hernanz P, Rosewell I, Reis e Sousa C. Identification of a DC receptor that couples sensing of necrosis to immunity. *Nature.* 2009 Apr 16;458(7240):899-903. *NC: 282. IF:34.48*

10. **Sancho D**, Mourão-Sá D, Joffre OP, Schulz O, Rogers NC, Pennington DJ, Carlyle JR, Reis e Sousa C. Tumor therapy in mice via antigen targeting to a novel, DC-restricted C-type lectin. *J Clin Invest.* 2008.118(6):2098-110. *NC: 226. IF:16.55.*

9. **Sancho D***, Gómez M*, Martínez G, Lamana A, Esplugues E, Lauzurica P, Martínez-A C, Sánchez-Madrid F. CD69 targeting differentially affects the course of collagen-induced arthritis. *J Leukoc Biol*. 2006;80(6):1233-41. NC: 11. IF:4.57
8. Martín-Cófreces NB*, **Sancho D***, Fernández E, Vicente-Manzanares M, Gordón-Alonso M, Montoya MC, Michel F, Acuto O, Alarcón B, Sánchez-Madrid F. Role of Fyn in the rearrangement of tubulin cytoskeleton induced through TCR. *J Immunol*. 2006 Apr 1;176(7):4201-7. NC: 37. IF:6.29
7. **Sancho D**, Gómez M, Sánchez-Madrid F. CD69 is an immunoregulatory molecule induced following activation. *Trends Immunol*. 2005 Mar;26(3):136-40. NC: 228. IF:10.17
6. **Sancho D**, Gómez M, Viedma F, Esplugues E, Gordón-Alonso M, García-López MA, de la Fuente H, Martínez-A C, Lauzurica P, Sánchez-Madrid F. CD69 downregulates autoimmune reactivity through active transforming growth factor-beta production in collagen-induced arthritis. *J Clin Invest*. 2003 Sep;112(6):872-82. NC: 101. IF: 14.30
5. **Sancho D**, Vicente-Manzanares M, Mittelbrunn M, Montoya MC, Gordón-Alonso M, Serrador JM, Sánchez-Madrid F. Regulation of microtubule-organizing center orientation and actomyosin cytoskeleton rearrangement during immune interactions. *Immunol Rev*. 2002 Nov;189:84-97. NC: 49. IF: 7.40
4. **Sancho D**, Montoya MC, Monjas A, Gordón-Alonso M, Katagiri T, Gil D, Tejedor R, Alarcón B, Sánchez-Madrid F. TCR engagement induces proline-rich tyrosine kinase-2 (Pyk2) translocation to the T cell-APC interface independently of Pyk2 activity and in an ITAM-mediated fashion. *J Immunol*. 2002 Jul 1;169(1):292-300. NC: 35. IF: 7.01
3. **Sancho D**, Santis AG, Alonso-Lebrero JL, Viedma F, Tejedor R, Sánchez-Madrid F. Functional analysis of ligand-binding and signal transduction domains of CD69 and CD23 C-type lectin leukocyte receptors. *J Immunol*. 2000 Oct 1;165(7):3868-75. NC: 31. IF: 6.83
2. **Sancho D***, Nieto M*, Llano M, Rodríguez-Fernández JL, Tejedor R, Avraham S, Cabañas C, López-Botet M, Sánchez-Madrid F. The tyrosine kinase PYK-2/RAFTK regulates natural killer (NK) cell cytotoxic response, and is translocated and activated upon specific target cell recognition and killing. *J Cell Biol*. 2000.12;149(6):1249-62. NC: 51. IF: 13.95
1. **Sancho D**, Yáñez-Mó M, Tejedor R, Sánchez-Madrid F. Activation of peripheral blood T cells by interaction and migration through endothelium: role of lymphocyte function antigen-1/intercellular adhesion molecule-1 and interleukin-15. *Blood*. 1999 Feb 1;93(3):886-96. NC: 54. IF: 8.78

COLLABORATIONS as Assistant Professor: (Since Sep 2010)

12. Núñez-Andrade N, Iborra S, Trullo A, Moreno-Gonzalo O, Calvo E, Catalán E, Menasche G, **Sancho D**, Vázquez J, Yao TP, Martín-Cófreces NB, Sánchez-Madrid F. HDAC6 regulates the dynamics of lytic granules in cytotoxic T lymphocytes. *J Cell Sci*. 2016;129(7):1305-11. IF: 5.43.
 11. Quintana E, Fernandez A, Velasco P, de Andres B, Liste I, **Sancho D**, Gaspar ML, Cano E. DNGR-1 dendritic cells are located in meningeal membrane and choroid plexus of the noninjured brain. *Glia*. 2015. 63:2231-48. NC: 1. IF: 6.03
 10. Sreeramkumar V, Hons M, Punzon C, Stein JV, **Sancho D**, Fresno M, Cuesta N. Efficient T cell priming and activation requires signalling through prostaglandin E2 (EP) receptors. *Immunol Cell Biol*. 2016. 94(1):39-51. IF: 4.14
 9. Hanč P, Fujii T, Iborra S, Yamada Y, Huotari J, Schulz O, Ahrens S, Kjær S, Way M, **Sancho D**, Namba K, Reis e Sousa C. Structure of the Complex of F-Actin and DNGR-1, a C-Type Lectin Receptor Involved in Dendritic Cell Cross-Presentation of Dead Cell-Associated Antigens. *Immunity*. 2015 May 19;42(5):839-49. NC: 2. IF: 21.56
 8. Dominguez-Soto A, de Las Casas-Engel M, Bragado R, Medina-Echeverez J, Aragoneses-Fenoll L, Martín-Gayo E, van Rooijen N, Berraondo P, Toribio ML, Moro MA, Cuartero I, Castrillo A, **Sancho D**, Sanchez C, Bruhns P, Sanchez-Ramon S, Corbi AL. Intravenous Immunoglobulin Promotes Antitumor Responses by Modulating Macrophage Polarization. *J Immunol*. 2014. 193:5181-9. NC: 3. IF: 4.92
 7. Escolano A, Martínez-Martínez S, Alfranca A, Urso K, Izquierdo HM, Delgado M, Martín F, Sabio G, **Sancho D**, Gómez-Del Arco P, Redondo JM. Specific calcineurin targeting in macrophages confers resistance to inflammation via MKP-1 and p38. *EMBO J*. 2014. NC: 6. IF: 10.43
 6. del Fresno C, Soulat D, Roth S, Blazek K, Udalova I, **Sancho D**, Ruland J, Ardavin C. Interferon- β production via Dectin-1-Syk-IRF5 signaling in dendritic cells is crucial for immunity to *C. albicans*. *Immunity*. 2013 Jun 27;38(6):1176-86. NC: 39. IF:19.79.
 5. Zelenay S, Keller AM, Whitney PG, Schraml BU, Deddouche S, Rogers NC, Schulz O, **Sancho D**, Reis e Sousa C. The dendritic cell receptor DNGR-1 controls endocytic handling of necrotic cell antigens to favor cross-priming of CTLs in virus-infected mice. *J Clin Invest*. 2012. 122(5):1615-27. NC: 70. IF: 12.
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4. Ahrens S, Zelenay S, **Sancho D**, Hanč P, Kjær S, Feest C, Fletcher G, Durkin C, Postigo A, Skehel M, Batista F, Thompson B, Way M, Reis e Sousa C, Schulz O.F-actin is an evolutionarily conserved damage-associated molecular pattern recognized by DNGR-1, a receptor for dead cells. *Immunity*. 2012 Apr 20;36(4):635-45. NC: 102. *IF*: 19.
3. Poulin LF, Rey Y, Uronen-Hansson H, Schraml BU, **Sancho D**, Murphy KM, Håkansson UK, Moita LF, Agace WW, Bonnet D, Reis e Sousa C. DNGR-1 is a specific and universal marker of mouse and human Batf3-dependent dendritic cells in lymphoid and nonlymphoid tissues. *Blood*. 2012 Jun 21;119(25):6052-62. NC: 73. *IF*: 9.06
2. Mourão-Sá D, Robinson MJ, Zelenay S, **Sancho D**, Chakravarty P, Larsen R, Plantinga M, Van Rooijen N, Soares MP, Lambrecht B, Reis e Sousa C. CLEC-2 signaling via Syk in myeloid cells can regulate inflammatory responses. *Eur J Immunol*. 2011; 41(10):3040-53. NC: 36. *IF*: 4.97.
1. Nuñez-Andrade N, Lamana A, **Sancho D**, Gisbert JP, Gonzalez-Amaro R, Sanchez-Madrid F, Urzainqui A. P-selectin glycoprotein ligand-1 modulates immune inflammatory responses in the enteric lamina propria. *J Pathol*. 2011; 224(2):212-21. NC: 5. *IF*: 6.31.

PREVIOUS SELECTED COLLABORATIONS

- Poulin LF, Salio M, Griessinger E, Anjos-Afonso F, Craciun L, Chen JL, Keller AM, Joffre O, Zelenay S, Nye E, Le Moine A, Faure F, Donckier V, **Sancho D**, Cerundolo V, Bonnet D, Reis e Sousa C. Characterization of human DNGR-1+ BDCA3+ leukocytes as putative equivalents of mouse CD8alpha+ dendritic cells. *J Exp Med*. 2010; 207(6):1261-71. NC: 318. *IF*:14.77.
- Joffre OP, **Sancho D**, Zelenay S, Keller AM, Reis e Sousa C. Efficient and versatile manipulation of the peripheral CD4+ T-cell compartment by antigen targeting to DNGR-1/CLEC9A. *Eur J Immunol*. 2010 May;40(5):1255-65. NC: 55. *IF*:4.94.
- Robinson MJ, **Sancho D**, Slack EC, LeibundGut-Landmann S, Reis e Sousa C. Myeloid C-type lectins in innate immunity. *Nat Immunol*. 2006 Dec;7(12):1258-65. NC: 288. *IF*:27.59.
- Serrador JM, Cabrero JR, **Sancho D**, Mittelbrunn M, Urzainqui A, Sánchez-Madrid F. HDAC6 deacetylase activity links the tubulin cytoskeleton with immune synapse organization. *Immunity*. 2004;20(4):417-28. NC: 105. *IF*: 15.44
- Castro C, Campistol JM, **Sancho D**, Sánchez-Madrid F, Casals E, Andrés V. Rapamycin attenuates atherosclerosis induced by dietary cholesterol in apolipoprotein-deficient mice through a p27 Kip1 -independent pathway. *Atherosclerosis*. 2004;172(1):31-8. NC: 55. *IF*: 3.79.
- Díez-Juan A, Pérez P, Aracil M, **Sancho D**, Bernad A, Sánchez-Madrid F, Andrés V. Selective inactivation of p27(Kip1) in hematopoietic progenitor cells increases neointimal macrophage proliferation and accelerates atherosclerosis. *Blood*. 2004;103(1):158-61. NC: 38. *IF*: 9.78.
- Vicente-Manzanares M, Rey M, Pérez-Martínez M, Yáñez-Mó M, **Sancho D**, Cabrero JR, Barreiro O, de la Fuente H, Itoh K, Sánchez-Madrid F. The RhoA effector mDia is induced during T cell activation and regulates actin polymerization and cell migration in T lymphocytes. *J Immunol*. 2003;171(2):1023-34. NC: 33. *IF*: 6.70
- Esplugues E, **Sancho D**, Vega-Ramos J, Martínez C, Syrbe U, Hamann A, Engel P, Sánchez-Madrid F, Lauzurica P. Enhanced antitumor immunity in mice deficient in CD69. *J Exp Med*. 2003 May 5;197(9):1093-106. NC: 94. *IF*: 15.30
- Mittelbrunn M, Yáñez-Mó M, **Sancho D**, Ursa A, Sánchez-Madrid F. Cutting edge: dynamic redistribution of tetraspanin CD81 at the central zone of the immune synapse in both T lymphocytes and APC. *J Immunol*. 2002 Dec 15;169(12):6691-5. NC: 82. *IF*: 7.01
- Montoya MC, **Sancho D**, Bonello G, Collette Y, Langlet C, He HT, Aparicio P, Alcover A, Olive D, Sánchez-Madrid F. Role of ICAM-3 in the initial interaction of T lymphocytes and APCs. *Nat Immunol*. 2002 Feb;3(2):159-68. Epub 2002. NC: 97. *IF*: 27.86
- Millán J, Montoya MC, **Sancho D**, Sánchez-Madrid F, Alonso MA. Lipid rafts mediate biosynthetic transport to the T lymphocyte uropod subdomain and are necessary for uropod integrity and function. *Blood*. 2002 Feb 1;99(3):978-84. NC: 60. *IF*: 9.63
- García-López MA, **Sancho D**, Sánchez-Madrid F, Marazuela M. Thyrocytes from autoimmune thyroid disorders produce the chemokines IP-10 and Mig and attract CXCR3+ lymphocytes. *J Clin Endocrinol Metab*. 2001 Oct;86(10):5008-16. NC: 96. *IF*: 5.44
- Lauzurica P, **Sancho D**, Torres M, Albella B, Marazuela M, Merino T, Bueren JA, Martínez-A C, Sánchez-Madrid F. Phenotypic and functional characteristics of hematopoietic cell lineages in CD69-deficient mice. *Blood*. 2000 Apr 1;95(7):2312-20. NC: 57. *IF*: 8.97.
- Vicente-Manzanares M, Rey M, Jones DR, **Sancho D**, Mellado M, Rodriguez-Frade JM, del Pozo MA, Yáñez-Mó M, de Ana AM, Martínez-A C, Mérida I, Sánchez-Madrid F. Involvement of phosphatidylinositol 3-kinase in stromal cell-derived factor-1a-induced lymphocyte polarization and chemotaxis. *J Immunol*. 1999;163(7):4001-12. NC: 116. *IF*: 7.14
- Nieto M, Frade JM, **Sancho D**, Mellado M, Martínez-A C, Sánchez-Madrid F. Polarization of chemokine receptors to the leading edge during lymphocyte chemotaxis. *J Exp Med*. 1997;186(1):153-8. NC:156. *IF*: 14.38

ACTIVE GRANTS

1. Title: Professional cross-priming for ovary and prostate cancer. PROCROP. Coordinator: Ignacio Melero. PI at CNIC node: David Sancho. Funding Agency: European Commission, H2020. Award period: 09/2015 – 08/2020
 2. Title: Spanish Cancer Immunotherapy Network (REINCA). PI: Juan José Lasarte Sagastibelza. PI at CNIC node: David Sancho. Funding Agency: Spanish Ministry of Economy. Award period: 2014- 2016
 3. Title: “Efectos funcionales de la detección de infección y muerte celular por células mieloides”. SAF2013-42920-R. PI: David Sancho. Funding Agency: Spanish Ministry of Economy. Award period: 01/2013 – 12/2016
 4. Title: “Immune Functions of myeloid Syk-coupled C-type lectin receptors sensing necrosis”. ERC-StG260414. PI: David Sancho. Funding Agency: European Research Commission. Award period: 12/2010 – 08/2016
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