Curriculum Vitae

Personal information

Daniel Fernández Soto

Work experience

1. Employer: Agencia Española de Medicamentos y Productos Sanitarios
   - Start date: 022023
   - Position: Clinical Assessor for Vaccines
   - Activities: Clinical assessment of marketing authorization dossiers for vaccines, Scientific Advice, Clinical trial application evaluation.
   - Country: Spain
2. Employer: Spanish National Research Council
   - Start date: 092019
   - End date: 022023
   - Position: Predoctoral Researcher
   - Activities: Design, perform and analyse experiments on the human immune response to viral infections (SARS-CoV-2, HCMV, EBV...) as part of a PhD project.
   - Country: Spain
3. Employer: Gestión de Actividades Culturales SL
   - Start date: 042019
   - End date: 062019
   - Position: Remedial Teacher
   - Activities: Remedial mathematics lessons for high school students.
   - Country: Spain
4. Employer: Apoyo Psicoeducativo SL
   - Start date: 012019
   - End date: 062019
   - Position: Remedial Teacher
   - Activities: Remedial mathematics lessons for high school students.
   - Country: Spain
5. Employer: Spanish National Research Council
   - Start date: 012017
   - End date: 122017
   - Position: Intern researcher
   - Activities: Design, perform and analyse experiments on the immune evasion mechanisms of HCMV.
   - Country: Spain

Education and training

1. Institution: Facultad de Teología SEUT
   - Start date: 012023
   - End date: present
   - Qualification: BA in Theology
   - Country: Spain
2. Institution: Universidad Autónoma de Madrid
   - Start date: 092019
   - End date: 102025
   - Qualification: PhD in Molecular Biosciences
   - Country: Spain
3. Institution: Universidad Autónoma de Madrid
   - Start date: 012018
   - End date: 062019
   - Qualification: Master Degree in Secondary Education Teaching
   - Country: Spain
4. Institution: Universidad Autónoma de Madrid
   - Start date: 092015
   - End date: 062016
   - Qualification: MSc in Molecular Biomedicine
   - Country: Spain
5. Institution: Universidad Autónoma de Madrid
   - Start date: 092011
   - End date: 062015
   - Qualification: BSc in Biochemistry
   - Country: Spain

Additional information

Publications

Sánchez-Simarro, Á. et al. (2025) Estimating SARS-CoV-2 Omicron XBB.1.5 Spike-Directed Functional Antibody Levels From an Anti-Receptor Binding Domain Wuhan-Hu-1-Based Commercial Immunoassay Results. *Journal of Medical Virology*.

Fernández-Soto, D. (2025) "Cambiar nuestro ADN para evitar enfermedades. ¿Podemos? ¿Queremos? ¿Debemos?" in "*Afrontar dilemas bioéticos*" (p. 85-96) Andamio Editorial

Angelioudaki, I. et al. (2024) Beyond the traditional distinctions of genome editing: evaluating a vulnerability framework. *Frontiers in Genome Editing.*

Sánchez-Simarro, Á. et al. (2024) Functional antibody responses targeting the Spike protein of SARS-CoV-2 Omicron XBB.1.5 in elderly nursing home residents following Wuhan-Hu-1-based mRNA booster vaccination. *Scientific Reports.*

Fernández-Soto, D. et al. (2024) "SARS-CoV-2 membrane protein-specific antibodies from critically ill SARS-CoV-2–infected individuals interact with Fc receptor–expressing cells but do not neutralize the virus" *Journal of Leukocyte Biology*.

Fernández-Soto, D. et al. (2024) "Elevated levels of cell-free NKG2D-ligands modulate NKG2D surface expression and compromise NK cell function in severe COVID-19 disease" *Frontiers in Immunology.*

Albert, E. et al. (2023) Antibody-dependent NK-cell neutralizing antibody responses against the Spike protein of Wuhan-Hu-1 and Omicron BA.1 SARS-CoV-2 variants in vaccinated experienced and vaccinated naïve individuals. *Journal of Medical Virology.*

García-Jimenez, A. et al. (2022) "Cross-reactive cellular, but not humoral, immunity is detected between OC43 and SARS-CoV-2 NP in people not infected with SARS-CoV-2: possible role of cTFH cells" *Journal of Leukocyte Biology.*

Caćeres-Martell, Y; Fernańdez-Soto, D. et al. (2021) "Single-reaction multi-antigen serological test for comprehensive evaluation of SARS-CoV-2 patients by flow cytometry" *European Journal of Immunology.*

Martińez-Fleta, P. et al. (2020) "SARS-CoV-2 Cysteine-like Protease Antibodies Can Be Detected in Serum and Saliva of COVID-19–Seropositive Individuals" *The Journal of Immunology.*

Dukovska, D; Fernandez-Soto, D; Vales-Gomez, M; Reyburn, HT. (2018) "NKG2H-expressing T cells negatively regulate T cell responses" *Frontiers in Immunology.*

Fernańdez, D. (2018) "La recepcioń religiosa a las ideas de Darwin: una revision historíca y su importancia en el aprendizaje de las ciencias" in "*Tejiendo Redes: hacia una educación basada en el diálogo para la transformación social*" (p. 220-222). Universidad de Cantabria.

Projects

Study of the role of antibody glycosylation in the context of EBV infection.

Study of the role of antibody glycosylation in the context of HCMV infection.

Study of the role of Natural Killer Cells in COVID-19 severity.

Study of the humoral immune response to SARS-CoV-2-encoded M protein.

Development of diagnostic solutions for COVID-19.

European Patent "Assay for the detection of the Cys-like protease (Mpro) of SARS-CoV-2" (EP20382495.8).

Pre-clinical studies on SYB-010, an immune stimulatory monoclonal antibody.

Characterization of the cell biology of HCMV-encoded gp68 receptor.

Characterization of the cell biology of the immune receptor NKG2H.

Memberships

Predoctoral fellowship from the Spanish Ministry of Science and Innovation (PRE2018_083200), from September, 2019 to February, 2023.

"A Roadmap for Ethical Reflection on Human Germline Genome Editing", oral presentation at ASA 2024 congress in Washington DC (USA).

Other Relevant Information