



Curriculum Vitae

Personal information **Laura Rodriguez Garcia**

Work experience

1. Employer: Agencia Española de Medicamentos y Productos Sanitarios
 - Start date: 02, 2018
 - End date: present
 - Position: Quality assessor
 - Activities: Quality assessor of Biological and Biotechnological medicinal products
 - Country: Spain
2. Employer: University of Rochester Medical Center
 - Start date: 11, 2015
 - End date: 01, 2018
 - Position: Post_doctoral associate
 - Activities: Research on development of Live Attenuated Influenza Vaccines
 - Country: United States
3. Employer: National Institute for Medical Research (NIMR), Division of Protein Structure
 - Start date: 06,2013
 - End date: 12,2013
 - Position: Visiting PhD student
 - Activities: Research on Pneumovirus Fusion protein structure
 - Country: United Kingdom
4. Employer: Centro Nacional de Microbiología, Instituto de Salud Carlos III
 - Start date: 09,2010
 - End date: 06,2015
 - Position: PhD student
 - Activities: Antigenic and immunogenic studies of pneumovirus (Metapneumovirus and Respiratory Syncytial virus) fusion proteins
 - Country: Spain

Education and training

1. Subject: Universidad Autónoma de Madrid
 - Start date: 09,2010
 - End date: 06,2015
 - Qualification: PhD
 - Organisation: Molecular biology, immunology, virology, protein expression and purification, rescue of recombinant viruses
 - Country: Spain
2. Subject: Universidad Autónoma de Madrid
 - Start date: 09,2009
 - End date: 09,2010
 - Qualification: Master
 - Organisation: Microbiology
 - Country: Spain
3. Subject: Universidad de Oviedo
 - Start date: 09,2004
 - End date: 09,2009
 - Qualification: BsC in Biology
 - Organisation:
 - Country: Spain

Additional information

Publications

1. Generation of monoclonal antibodies specific of the postfusion conformation of the pneumovirinae fusion (F) protein. L. Rodriguez, E. Olmedillas, V. Mas, M. Vázquez, O. Cano, M.C. Terrón, D. Luque, C. Palomo and J.A. Melero. (2015). J Virol Methods. PMID: 26275682
2. Engineering, structure and immunogenicity of the human metapneumovirus F protein in the post_fusion conformation. V. Mas, L. Rodriguez, E. Olmedillas, O. Cano, C. Palomo, M.C. Terron, D. Duque, J.A. Melero and J.S. McLellan. (2016). PLoS Pathogens. PMID: 27611367
3. A temperature sensitive live_attenuated canine influenza virus H3N8 vaccine. A. Nogales, L. Rodriguez, C. Chauche, K. Huang, E.C. Reilly, D.J. Topham, P.R. Murcia, C.R. Parrish and L. Martinez_Sobrido. (2016). J. Virology. PMID: 27928017
4. A live_attenuated influenza vaccine for H3N2 canine influenza virus. L. Rodriguez, A. Nogales, E.C Reilly., D.J. Topham, P.R. Murcia, C.R. Parrish and L. Martinez_Sobrido. (2017). Virology. PMID: 28167384
5. Interplay of PA_X and NS1 proteins in replication and pathogenesis of a temperature_sensitive pandemic H1N1 influenza A virus. A. Nogales, L. Rodriguez, M. DeDiego, D. Topham and L. Martinez_Sobrido. (2017). J. Virology. PMID: 28637750
6. A bivalent live_attenuated influenza vaccine for the control, and prevention of H3N8 and H3N2 canine influenza

- viruses. L. Rodriguez, A. Nogales, P.R. Murcia, C.R. Parrish and L. Martinez_Sobrido. (2017). Vaccine Journal. PMID: 28709557
7. Influenza A virus studies in mice. L. Rodriguez, A. Nogales and L. Martinez_Sobrido. (2017). Journal of Visualized Experiments (JoVE). PMID: 28930978
8. The prefusion structure of hMPV F glycoprotein unveils unique functional and immunological traits. M. B. Battles, V. Mas, E. Olmedillas, O. Cano, M. Vazquez, L. Rodriguez, J.A. Melero and J. S. McLellan. (2017). Nature Communications Journal. PMID: 29142300
9. Development of a novel equine influenza virus live_attenuated vaccine. L. Rodriguez, S. Reedy, A. Nogales, P.R. Murcia, T. Chambers and L. Martinez_Sobrido. (2018). Virology. PMID: 29331866
10. Identification of amino acid residues responsible for inhibition of host gene expression by Influenza A H9N2 NS1 targeting of CPSF30. L. Rodriguez, A. Nogales, M. Iqbal, D.R. Perez and L. Martinez_Sobrido. (2018). Front. Microbiol. PMID: 30405591
11. Novel Approaches for The Development of Live Attenuated Influenza Vaccines. P. Blanco_Lobo, A. Nogales, L. Rodriguez and L. Martinez_Sobrido. (2019). Viruses. PMID: 30813325
12. Comparative Study of the Temperature Sensitive, Cold Adapted and Attenuated Mutations Present in the Master Donor Viruses of the Two Commercial Human Live Attenuated Influenza Vaccines. L. Rodriguez, P. Blanco_Lobo, E.C. Reilly, T. Maehigashi, A. Nogales, A. Smith, D.J. Topham, S. Dewhurst, B. Kim, L. Martinez_Sobrido. (2019). Viruses. PMID: 31658679
13. A Bivalent Live_Attenuated Vaccine for the Prevention of Equine Influenza Virus. P. Blanco_Lobo, L. Rodriguez, S. Reedy, F.S. Oladunni, A. Nogales, P.R. Murcia, T.M. Chambers, L. Martinez_Sobrido. (2019). Viruses. PMID: 31614538
14. A live_attenuated influenza vaccine (LAIV) elicits enhanced heterologous protection when the internal genes of the vaccine are matched to the challenge virus. A. Smith, L. Rodriguez, M. Ghouayel, A. Nogales, J.M. Chamberlain, K. Sortino, E. Reilly, C. Feng, D.J. Topham, L. Martinez_Sobrido, S. Dewhurst. (2019). J. Virology. PMID: 31748399
15. Characterizing Emerging Canine H3 Influenza Viruses. L. Martinez_Sobrido, P. Blanco_Lobo, L. Rodriguez, T. Fitzgerald, H. Zhang, P. Nguyen, C.S. Anderson, J. Holden_Wiltse, S. Bandyopadhyay, A. Nogales, M.L. DeDiego, B. R. Wasik, B. L. Miller, C. Henry, P.C. WilsonI, M.Y. Sangster, J. J. Treanor, D.J. Topham, L. Byrd_Leotis, D.A. Steinhauer, R.D. Cummings, J. M. Luczo, S.M. Tompkins, K. Sakamoto, C.A. Jones10, J. Steel, A.C. Lowen, S.Danzy, H.Tao, A.L. Fink, S.L. Klein, N. Wohlgemuth, K. J. Fenstermacher, F. el Najjar, A. Pekosz, L. Sauer, M. K. Lewis, K. Shaw_Saliba, R.E. Rothman, Z_Y Liu, K_F Chen, C.R. Parrish, I.E.H. Voorhees, Y. Kawaoka, G. Neumann, S. Chiba, S. Fan, M. Hatta, H. Kong, G. Zhong, G. Wang, M.B. Uccellini, A. Garcia_Sastre, D.R. Perez, L.M. Ferreri, S. Herfst, M. Richard, R. Fouchier, D. Burke, D. Pattinson, D.J. Smith, V. Meliopoulos, P. Freiden, B.Livingston, B. Sharp, S. Cherry, J.C. Dib, G. Yang, C.J. Russell, S. Barman, R.J. Webby, S. Krauss, A. Danner, K. Woodard, M. Peiris, R.A.P.M. Perera, M.C.W. Chan, E.A. Govorkova, B.M. Marathe, P.N.Q. Pascua, G. Smith, Y_T Li, P.G. Thomas, S. Schultz_Cherry. (2020). PLoS Pathogens. PMID: 32287326
16. Mutation L319Q in the PB1 Polymerase Subunit Improves Attenuation of a Candidate Live_Attenuated Influenza A Virus Vaccine. A. Nogales, J. Steel, W_C. Liu, A.C. Lowen, L. Rodriguez, K. Chiem, A. Cox, A. Garcia_Sastre, R. A. Albrecht, S. Dewhurst, L. Martinez_Sobrido. (2022). Microbiology Spectrum. ASM Journals. PMID 35583364
17. The Coming of Age of Gene Therapy for the Treatment of Human Diseases: A Regulatory Perspective. L. Rodríguez, P. de Felipe, R. Martín, J. Martínez, D. Ordóñez, S. Rojo, J. Fernando Martínez, E. Rincón, T. Cejalvo, I. Izquierdo, I. Montanuy, and M. Timón. (2025). Human Gene Therapy. DOI: 10.1177/10430342251372047

Projects

Beca De Formación de Personal Investigador (FPI) concedida por el Ministerio de Economía y Competitividad, asociada al Plan Nacional I+D+I SAF2009_11632 con el título "Estructura_Función de proteínas de los neumovirus que representan dianas únicas para el desarrollo de nuevos antivirales".

Memberships

Member of the mRNA VAC working Party of the European Pharmacopoeia
Member of the BWP Vaccine Quality Operational Expert Group. BV-EOG

Other Relevant Information