

CVA Paloma Rueda Pérez

Education:

- PhD 1989-1993: Universidad Autónoma de Madrid (UAM), Spain: Genetic and antigenic characterization of human respiratory syncytial virus G glycoprotein. Genetic mechanisms used for antigenic diversity generation.
- BSc 1987: Universidad Autónoma de Madrid (UAM), Spain: BSc Biochemistry and Molecular Biology

Research Employment History:

- 2012 to Present: Head of Research Department. Eurofins-INGENASA. Spain.
- 2002-2011: Project leader (INGENASA). Involved in National and European projects related with the development of vaccines and diagnostic tests on the Veterinary Field.
- 1994-2002: Post-doctoral Researcher (INGENASA). Virologist and Molecular Biologists.

Publications last 5 years (61 peer-reviewed articles to date):

- Pedro J. Sánchez-Cordón, Tamara Jabbar, Margot Berrezaie, Dave Chapman, Ana Reis, Patricia Sastre, Paloma Rueda, Lynnette Goatley, Linda K. Dixon. (2018) Evaluation of protection induced by immunisation of domestic pigs with deletion mutant African swine fever virus BeninDMGF by different doses and routes. Vaccine 2018 Jan 29; 36(5): 707–715. doi.org/10.1016/j.vaccine.2017.12.030.
- Durán-Ferrer M, Agüero M, Zientara S, Smith S, Potgieter C, Rueda P, Sastre P, Monaco F, Villalba R, Tena-Tomás C, Batten C, Frost L, Flannery J, Gubbins S, Lubisi BA, Sánchez-Vizcaíno JM, Emery M, Sturgill T, Ostlund E, Castillo-Olivares J. (2019) Assessment of reproducibility of a VP7 Blocking ELISA diagnostic test for African horse sickness. J. Transbound Emerg Dis. 2019 Jan;66(1):83-90. doi: 10.1111/tbed.12968.
- Fresco-Taboada A, Risalde MA, Gortázar C, Tapia I, González I, Venteo Á, Sanz A, Rueda P. (2019). A lateral flow assay for the rapid diagnosis of Mycobacterium bovis infection in wild boar. Transbound Emerg Dis. Sep;66(5):2175-2179. doi: 10.1111/tbed.13260.
- Aira C, Ruiz T, Dixon L, Blome S, Rueda P, Sastre P (2019). Bead-Based Multiplex Assay for the Simultaneous Detection of Antibodies to African Swine Fever Virus and Classical Swine Fever Virus. Front Vet Sci. Sep 13;6:306. doi: 10.3389/fvets.2019.00306. eCollection 2019.
- Alexis C.R. Hoste, Tamara Ruiz, Paloma Fernández-Pacheco, Miguel Ángel Jiménez-Clavero, Igor Djadjovski, Sandra Moreno, Alejandro Brun, Thomas A. Edwards, John N. Barr, Paloma Rueda, Patricia Sastre (2020). Development of a multiplex assay for antibody detection in serum against pathogens affecting ruminants. Transbound Emerg Dis; DOI: 10.1111/tbed.13776

- Alexis C.R. Hoste, Angel Venteo, Alba Fresco-Taboada, Istar Tapia, Alejandro Monedero, Lissette López, Maarten F. Jebbink, Elisa Pérez-Ramírez, Miguel Angel Jimenez-Clavero, Mercedes Almonacid, Patricia Muñoz, Jesus Guinea, Carmen Vela, Lia van der Hoek, Paloma Rueda, Patricia Sastre (2020). Two serological approaches for detection of antibodies to SARS-CoV-2 in different scenarios: A screening tool and a point-of-care test. *Diagnostic Microbiology and Infectious Disease*, DOI: 10.1016/j.diagmicrobio.2020.115167.
- Edridge AWD, Kaczorowska J, Hoste ACR, Bakker M, Klein M, Loens K, Jebbink MF, Matser A, Kinsella CM, Rueda P, Ieven M, Goossens H, Prins M, Sastre P, Deijs M, van der Hoek L. (2020) Seasonal coronavirus protective immunity is short-lasting. *Nat Med*. 2020 Nov;26(11):1691-1693. doi: 10.1038/s41591-020-1083-1. Epub 2020 Sep 14.
- Aira, C., Penning, M., Eiden, M., Balkema-Buschmann, A., Blome, S., Strutzberg-Minder, K., López, L., Rueda, P., & Sastre, P. (2021). A multiplex assay for the detection of antibodies to relevant swine pathogens in serum. *Transbound Emerg Dis*. 2021 Jul 2. doi: 10.1111/tbed.14213. PMID: 34212525
- Pulido J, García-Durán M, Fernández-Antonio R, Galán C, López L, Vela C, Venteo Á, Rueda P, Rivas LA. *J Vet Diagn Invest*. Receptor-binding domain-based immunoassays for serosurveillance differentiate efficiently between SARS-CoV2-exposed and non-exposed farmed mink. (2021) Dec 2:10406387211057859. doi: 0.1177/10406387211057859. PMID: 34852683.
- Hoste ACR, Ruiz T, Fernández-Pacheco P, Jiménez-Clavero MÁ, Djadjovski I, Moreno S, Brun A, Edwards TA, Barr JN, Rueda P, Sastre P. Development of a multiplex assay for antibody detection in serum against pathogens affecting ruminants. *Transbound Emerg Dis*. (2021) May;68(3):1229-1239. doi: 10.1111/tbed.13776. PMID: 32767820.
- Aira C, Klett-Mingo JI, Ruiz T, Garcia-Sacristán A, Martín-Valls GE, Mateu E, Gómez-Laguna J, Rueda P, González VM, Rodríguez MJ, López L. Development of an antigen Enzyme-Linked Aptasorbent Assay (ELASA) for the detection of swine influenza virus in field samples. *Anal Chim Acta*. (2021) Oct 9;1181:338933. doi: 10.1016/j.aca.2021.338933. Epub 2021 Aug 9. PMID: 34556218.
- Ruano-Gallego D, García-Villadangos M, Moreno-Paz M, Gómez-Elvira J, Postigo M, Simón-Sacristán M, Reyburn HT, Carolis C, Rodrigo N, Codeseira YB, Rueda P, Zúñiga S, Enjuanes L, Parro V. A multiplex antigen microarray for simultaneous IgG and IgM detection against SARS-CoV-2 reveals higher seroprevalence than reported. *Microb Biotechnol*. (2021) May;14(3):1228-1236. doi: 10.1111/1751-7915.13801. PMID: 33929101.
- Understanding and combatting African Swine Fever. A European perspective. Editors Laura Lacolina, Mary-Louise Penrith, Silvia Bellini, Erika Chenais, Ferran Jori, Maria Montoya, Karl Ståhl and Dolores Gavier-Widén. eISBN: 978-90-8686-910-7 | ISBN: 978-90-8686-357-0. <https://doi.org/10.3920/978-90-8686-910-7>. Book Type: Edited Collection

- Pulido J, García-Durán M, Fernández-Antonio R, Galán C, López L, Vela C, Venteo Á, Rueda P, Rivas LA. (2022) Receptor-binding domain-based immunoassays for serosurveillance differentiate efficiently between SARS-CoV2-exposed and non-exposed farmed mink. J Vet Diagn Invest. 2022 Mar;34(2):190-198. doi: 10.1177/10406387211057859. Epub 2021 Dec 2. PMID: 34852683.
- Fresco-Taboada A, García-Durán M, Aira C, López L, Sastre P, van der Hoek L, van Gils MJ, Brouwer PJM, Sanders RW, Holzer B, Zimprnik I, López-Collazo E, Muñoz P, Rueda P, Vela C. (2022) Diagnostic performance of two serological assays for the detection of SARS-CoV-2 specific antibodies: surveillance after vaccination. Diagn Microbiol Infect Dis. 2022 Apr;102(4):115650. doi: 10.1016/j.diagmicrobio.2022.115650. Epub 2022 Jan 26. PMID: 35218991.
- Fresco-Taboada A, Montón M, Tapia I, Soria E, Bárcena J, Guillou-Cloarec C, Le Gall-Reculé G, Blanco E, Rueda P. (2022) Development and Evaluation of a Duplex Lateral Flow Assay for the Detection and Differentiation between Rabbit Haemorrhagic Disease Virus Lagovirus europaeus/GI.1 and /GI.2. Biology (Basel). 2022 Mar 5;11(3):401. doi: 10.3390/biology11030401. PMID: 35336775

Major Funded Studies:

- *Desarrollo de métodos de diagnóstico para la diferenciación de animales vacunados e infectados por el virus de la lengua azul.* PROFIT (MEC). CIT-010000-2005-81.
- *Nuevas aproximaciones al diagnóstico de la Lengua Azul: Serología de doble reconocimiento y ensayos DIVA.* Consejería de Economía e Innovación Tecnológica (CAM). 27/2007.
- *Nuevas Aplicaciones Tecnológica al diagnóstico para Orbivirus.* Proyecto financiado por el Ministerio de Industria Turismo y Comercio (2008-2009).
- *Development of multivalent vaccines for BTV, EHDV and AHSV (ORVIVAC)* FP7-KBBE-2009-3 (2010 - 2012).
- *Rapid Field Diagnostic and Screening in Veterinary Medicine (RAPIDIA-FIELD)* FP7-KBBE.2011.1.3-02. (2012-2015). Project Coordinator.
- *Targeted Research Effort on African Swine Fever (ASFORCE)* (2012-2015) FP7-KBBE.2012.1.3-02.
- *Integrated solutions for Tuberculosis control in animals combining vaccination and multispecies diagnostics (WildTBVac)* FP7-KBBE-2013-7 (2013-2015).
- *Advanced Tools and Research Strategies for Parasite Control in European farmed fish: (ParaFishControl)* H2020-SFS-2014-2 (2014-2018).
- *A safe DIVA vaccine for African Swine Fever control and eradication (VACDIVA)* H2020-SFS-2019-1 (2019-2023)