

BIOGRAPHICAL SKETCH

NAME: Teresa Rodriguez-Calvo		POSITION TITLE: Junior Group Leader	
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Universidad Complutense de Madrid (UCM), Spain	MSc	2001-2006	Veterinary Medicine
Universidad Complutense de Madrid (UCM), Spain	PhD	2007-2011	Veterinary Science
La Jolla Institute for Allergy and Immunology, USA	Postdoc	2012-2015	Immunology
La Jolla Institute for Allergy and Immunology, USA	Instructor	2015-2017	Immunology

A. Positions and Honors.**Positions:**

- 2012-2015: **Postdoctoral fellow.** La Jolla Institute for Allergy and Immunology, La Jolla, California, USA.
2015-2017: **Instructor.** La Jolla Institute for Allergy and Immunology, La Jolla, California, USA.
2017- **Visiting Scientist.** La Jolla Institute for Allergy and Immunology, La Jolla, California, USA.
2017- **Junior group leader.** Research unit Type 1 Diabetes Pathology. Institute of Diabetes Research (IDF), Helmholtz Zentrum München (HMGU). Munich, Germany.

Honors:

- 2009 **Travel award.** The European Research Group for Epizootic Disease Diagnosis (EPIZONE) Theme 5 meeting. Paris, France.
2010 **Travel award.** The European Research Group for Epizootic Disease Diagnosis (EPIZONE) Theme 5 meeting. Copenhagen, Denmark.
2010 **Travel award.** 14th International Congress of Immunology (ICI), Kobe, Japan.
2011 **Travel award.** Building Bridges Workshop. The European Research Group for Epizootic Disease Diagnosis (EPIZONE). Beijing, China.
2013 **Best Poster award and travel award.** The 13th International Congress of the Immunology of Diabetes Society (IDS). Lorne, Victoria, Australia.
2015 **Invited speaker.** Diabetes Research Institute. University of Miami Leonard M. Miller School of Medicine. "From the pre-diabetic phase to the chronic disease and beyond: Histopathology of human type 1 diabetes".
2015 **Invited speaker.** Network for Pancreatic Organ Donors with Diabetes (nPOD) annual meeting. St. Pete Beach, Florida. "Increased immune cell infiltration of the exocrine pancreas: food for thought".
2015 **Invited Speaker.** Diabetes and Metabolism Seminar Series Annual Symposium. Beta cell replacement therapies for diabetes. University of Washington "Pathological considerations for designing β -cell replacement therapies: lessons from the pancreas".
2015 **Travel award.** The 14th International Congress of the Immunology of Diabetes Society (IDS). Munich, Germany.
2015 **Young Investigator Award for outstanding contributions to diabetes research.** Network for Pancreatic Organ Donors with Diabetes (nPOD).
2015 **nPOD Investigator Spotlight:** <http://www.jdrfnpod.org/news-events/december-2015-investigator-spotlight/>
2016 **Travel award.** 52nd European Association for the Study of Diabetes (EASD). Munich, Germany.

- 2016 **Invited Speaker.** 19th Inflammation Research Association (IRA) International Conference. San Diego, CA, USA. "Novel insights into the pathology of human type 1 diabetes".
- 2017 **Travel award.** The 15th International Congress of the Immunology of Diabetes Society (IDS). San Francisco, USA.
- 2017 **Invited Speaker.** Type 1 Diabetes: New Technologies and Therapeutics Symposium. San Diego, CA, USA. "Increase in Pancreatic Proinsulin and Preservation of Beta Cell Mass in Autoantibody Positive Donors prior to Type 1 Diabetes Onset".
- 2017 **Invited Speaker.** 2nd joint meeting of the EASD-Islet Study Group and the Beta Cell Workshop. Dresden, Germany. "Coordinated analysis using complementary methodologies reveals a viral signature and demonstrates a low level enteroviral infection in the pancreas in type 1 diabetes".
- 2017 **Best Poster award.** 2nd joint meeting of the EASD - Islet Study Group and the Beta Cell Workshop, Dresden, Germany.
- 2017 **Lecture** for the Advance Course in Cell Biology (PhD course). Research seminar. Department of Medical Cell Biology. Uppsala University, Uppsala, Sweden. "The Human Pancreas in Type 1 Diabetes: A journey through space and time".
- 2017 **Invited Speaker.** The American Diabetes Association's 77th Scientific Sessions. San Diego, CA, USA. "Fail-The Islet Microenvironment and Type 1 Diabetes Initiation. Improper Responses of Islet Cells to Viruses".
- 2017 **Invited speaker.** 22nd EASD-Hagedorn Oxford Workshop. Oxford, UK. "Combined therapy in the prevention of T1D, lessons from the pancreas".
- 2017 **Invited speaker.** The IBCS seminar series. University of Exeter Medical School, UK. "The Human Pancreas in Type 1 Diabetes: A journey through space and time".
- 2018 **The George S. Eisenbarth nPOD Award for Team Science.** Helmsley Charitable Trust. Network for Pancreatic Organ Donors with Diabetes (nPOD), Florida, USA.
- 2018 **Grant Review Panel Member.** Juvenile Diabetes Research Foundation (JDRF).
- 2019 **Organizer** of the 3rd Follow-up Persistent virus infection as a cause of pathogenic inflammation in type 1 diabetes (PEVNET) meeting. Munich, Germany.
- 2019 **Invited Speaker.** GPPAD Investigator Meeting. Munich, Germany. "The JDRF nPOD-Virus Group: Association of type 1 diabetes with viral markers as triggers of disease".
- 2020 **JDRF Career Development Award (Dr. Robert Goldstein Award)** for her work in understanding the development of type 1 diabetes.
- 2020 **Session chair.** 12th Network for Pancreatic Organ Donors with Diabetes (nPOD) annual meeting. Tampa, Florida, USA.
- 2020 **Invited speaker.** The American Diabetes Association's 80th Scientific Sessions. "Slicing and Dicing-Prohormone Processing in Diabetes". Histologic Analysis of Prohormone Processing.
- 2020 **Moderator** at the DZD Diabetes Research School 2020.
- 2021 **Speaker** at the Helmholtz Munich Immunology Symposium. Helmholtz Zentrum, Munich, Germany. "Quantitative analysis of pancreatic T cell infiltration in type 1 diabetes: a numbers game"
- 2021 **Speaker** at the 13th Network for Pancreatic Organ Donors with Diabetes (nPOD) annual meeting. Quantitative analysis of pancreatic T cell infiltration in type 1 diabetes: a numbers game"

Other Experience and Professional Memberships

- 2009 **Patent:** Attenuated vaccine for Foot and Mouth Disease Virus (FMDV). E. Domingo, C. Escarmís, S. Ojosnegros, F.J. García- Arriaza, M. Sanz-Ramos, N. Sevilla and T. Rodríguez-Calvo. Number of application: WO 2009144353 (A1) International.
- 2010 **Accreditation** of Animal Laboratory Care. Category B. Course of technical specialist in animal experimentation. Training courses for categories A, B and C described in the Spanish Royal Decree 1201/2005.
- 2011 **Accreditation** of Animal Laboratory Care. Category C. Course of laboratory animal sciences for researchers. Training courses for categories A, B and C described in the Spanish Royal Decree 1201/2005.
- 2012- **Reviewer** for Clinical and Experimental Immunology Journal.
- 2012- **Reviewer** for PLoS One Journal.
- 2012- **Member** of the nPOD-Virus working group.
- 2013- **Associate Faculty Member** F1000.
- 2015- **Reviewer** for PNAS Journal.
- 2015- **Reviewer** for Diabetes Journal.
- 2015 **7th Annual International Certificate Program,** Translational Medicine, Eureka Institute. Siracusa, Italy.
- 2016- **Member** of the nPOD-Autoimmunity working group.

- 2017- **Reviewer** for Microbes and Infection Journal.
- 2017- **Reviewer** for Diabetologia.
- 2017- **Reviewer** for iScience.
- 2017- **Member** of INNODIA WP3. Novel Models and Mechanistic Studies on T1D Pathogenesis.
- 2017- **Supervision** of research assistants. Research unit Type 1 Diabetes Pathology. Institute of Diabetes Research (IDF), Helmholtz Zentrum München (HMGU). Munich, Germany.
- 2018- **Supervision** of postdoctoral fellows. Research unit Type 1 Diabetes Pathology. Institute of Diabetes Research (IDF), Helmholtz Zentrum München (HMGU). Munich, Germany.
- 2018 **Course** on “effective leadership in the scientific field”. Technical University Munich (TUM). Helmholtz Zentrum.
- 2018 **Course** on “advance graphic design for scientists”. Luminous Lab. Helmholtz Zentrum Munich.
- 2018 **Course** on “Leading successful meetings”. Modul training. Helmholtz Zentrum Munich.
- 2018 **Course** on “Introduction to and Statistics using R”. Helmholtz Zentrum Munich.
- 2018- **Reviewer** for Cellular and Molecular Life Sciences Journal.
- 2018- **Reviewer** for Journal of Translational Research.
- 2019- **Reviewer** for FASEB Journal.
- 2019- **Reviewer** for Scientific Reports.
- 2019- **Member** of the nPOD Data Science working group.
- 2019- **Member** of the nPOD Pro-hormone working group.
- 2019 **Course** on “Doctoral Supervision Training”. Helmholtz Zentrum Munich.
- 2019 **Research Topic Editor** for Frontiers in Endocrinology.
- 2020- **Reviewer** for Molecular Immunology.
- 2020- **Reviewer** for Viral Immunology
- 2020- **Reviewer** for Microorganism.
- 2020- **Reviewer** for Journal of Clinical Medicine.
- 2020- **Reviewer** for Endocrine Reviews.
- 2020- **Reviewer** for PLoS Pathogens.
- 2020 **Course** on “Leadership in Academia - Leadership Competences for Challenging Tasks. Helmholtz Zentrum Munich.
- 2020- **Supervision** of a PhD student. Research unit Type 1 Diabetes Pathology. Institute of Diabetes Research (IDF), Helmholtz Zentrum München (HMGU). Munich, Germany.
- 2021- **Reviewer** for Cell Metabolism.

B. Selected peer-reviewed publications (in chronological order): past three years.

Anquetil F, Mondanelli G, Gonzalez N, **Rodriguez Calvo T**, Zapardiel Gonzalo J, Krogvold L, Dahl-Jørgensen K, Van den Eynde B, Orabona C, Grohmann U, von Herrath MG. Loss of IDO1 Expression From Human Pancreatic β -Cells Precedes Their Destruction During the Development of Type 1 Diabetes. *Diabetes*. 2018 Sep;67(9):1858-1866. doi: 10.2337/db17-1281. Epub 2018 Jun 26.

Rodriguez-Calvo T. Enteroviral Infections as a Trigger for Type 1 Diabetes. *Curr Diab Rep*. 2018 Sep 19;18(11):106. doi: 10.1007/s11892-018-1077-2. Review.

Rodriguez-Calvo T, Richardson SJ, Pugliese A. Pancreas Pathology During the Natural History of Type 1 Diabetes. *Curr Diab Rep*. 2018 Oct 6;18(11):124. doi: 10.1007/s11892-018-1084-3. Review.

Rodriguez-Calvo T. Enterovirus infection and type 1 diabetes: unraveling the crime scene. *Clin Exp Immunol*. 2019 Jan;195(1):15-24. doi: 10.1111/cei.13223. Epub 2018 Nov 13. Review.

Sabouri S, Benkahla MA, Kiosses WB, **Rodriguez-Calvo T**, Zapardiel-Gonzalo J, Castillo E, von Herrath MG. Human herpesvirus-6 is present at higher levels in the pancreatic tissues of donors with type 1 diabetes. *J Autoimmun*. 2019 Dec 6:102378. doi: 10.1016/j.jaut.2019.102378.

Bender C, **Rodriguez-Calvo T**, Amirian N, Coppieters KT, von Herrath MG. The healthy exocrine pancreas contains preproinsulin-specific CD8 T cells that attack islets in type 1 diabetes. *Sci Adv*. 2020 Oct 16;6(42):eabc5586. doi: 10.1126/sciadv.abc5586.

Rodriguez-Calvo T, Krogvold L, Amirian N, Dahl-Jørgensen K, von Herrath M. One in Ten CD8+ Cells in the Pancreas of Living

Individuals With Recent-Onset Type 1 Diabetes Recognizes the Preproinsulin Epitope PPI15-24. *Diabetes*. 2021 Mar;70(3):752-758. doi: 10.2337/db20-0908.

Apaolaza PS.; Balcecean D.; Zapardiel-Gonzalo J.; Nelson G.; Lenchik N.; Akhbari P.; Gerling I.; Richardson SJ.; **Rodriguez-Calvo T.** and the nPOD-Virus Group. The interferon response markers MxA, PKR and HLA-I are expressed in the islets in type 1 diabetes and correlate with the presence of viral protein and insulinitis. *Sci Adv*. 2021 Feb 24;7(9):eabd6527. doi: 10.1126/sciadv.abd6527.

Mishto M, Mansurkhodzhaev A, **Rodriguez-Calvo T**, Liepe J. Potential Mimicry of Viral and Pancreatic β Cell Antigens Through Non-Spliced and *cis*-Spliced *Zwitter* Epitope Candidates in Type 1 Diabetes. *Front Immunol*. 2021 Apr 15;12:656451. doi: 10.3389/fimmu.2021.656451. eCollection 2021.

Rodriguez-Calvo T, Chen YC, Verchere CB, Haataja L, Arvan P, Leete P, Richardson SJ, Morgan NG, Qian WJ, Pugliese A, Atkinson M, Evans-Molina C, Sims EK. Altered β -Cell Prohormone Processing and Secretion in Type 1 Diabetes. *Diabetes*. 2021 May;70(5):1038-1050. doi: 10.2337/dbi20-0034. .

Rodriguez-Calvo T, Johnson JD, Overbergh L, Dunne JL. Neoepitopes in Type 1 Diabetes: Etiological Insights, Biomarkers and Therapeutic Targets. *Front Immunol*. 2021 Apr 19;12:667989. doi: 10.3389/fimmu.2021.667989. eCollection 2021.

Rodriguez-Calvo T, Christoffersson G, Bender C, von Herrath MG, Mallone R, Kent SC, James EA. Means, Motive, and Opportunity: Do Non-Islet-Reactive Infiltrating T Cells Contribute to Autoimmunity in Type 1 Diabetes? *Front Immunol*. 2021 Jun 16;12:683091. doi: 10.3389/fimmu.2021.683091.

Apaolaza PS, Petropoulou PI, **Rodriguez-Calvo T**. Whole-Slide Image Analysis of Human Pancreas Samples to Elucidate the Immunopathogenesis of Type 1 Diabetes Using the QuPath Software. *Front Mol Biosci*. 2021 Jun 11;8:689799. doi: 10.3389/fmolb.2021.689799.

Complete List of Published Work in Peer-Reviewed Journals:

<https://www.ncbi.nlm.nih.gov/pubmed/?term=teresa+rodriguez-calvo>