

## CURRICULUM VITAE

### Michael John Talledo Albújar

Institution : Bio Links SA  
Instituto de Medicina Tropical Alexander von Humboldt (IMT-AvH). Universidad Peruana Cayetano Heredia (UPCH)

Current position : Head of Diagnostic and Research Laboratory Bio Links SA.  
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### University studies

1998-2001 Studies at the sciences Master Program  
Post Grade school "Victor Alzamora Castro", Universidad Peruana Cayetano Heredia

1989-1995 Sciences bachelor degree in Biology at Universidad Nacional Federico Vilarreal, (Lima-Perú)

20015-to date PhD student, University of Antwerp Belgium.

### Publications

- Menezes SM, Decanine D, Brassat D, Khouri R, Schnitman SV, Kruschewsky R, López G, Alvarez C, **Talledo M**, Gotuzzo E, Vandamme AM, Galvão-Castro B, Liblau R, Weyenbergh JV. CD80+ and CD86+ B cells as biomarkers and possible therapeutic targets in HTLV-1 associated myelopathy/tropical spastic paraparesis and multiple sclerosis. *J Neuroinflammation*. 2014 Jan 29;11:18. doi: 10.1186/1742-2094-11-18
- Moens B, Pannecouque C, López G, **Talledo M**, Gotuzzo E, Khouri R, Bittencourt A, Farré L, Galvão-Castro B, Vandamme AM, Van Weyenbergh J. Simultaneous RNA quantification of human and retroviral genomes reveals intact interferon signaling in HTLV-1-infected CD4+ T cell lines. *Virology*. 2012 Aug 23;9:171
- Moens B, Decanine D, Menezes SM, Khouri R, Silva-Santos G, Lopez G, Alvarez C, **Talledo M**, Gotuzzo E, de Almeida Kruschewsky R, Galvão-Castro B, Vandamme AM, Van Weyenbergh J. Ascorbic Acid Has Superior Ex Vivo Antiproliferative, Cell Death-Inducing and Immunomodulatory Effects over IFN- $\alpha$  in HTLV-1-Associated Myelopathy. *PLoS Negl Trop Dis*. 2012 Jul;6(7):e1729.
- **Talledo M**, López G, Huyghe J, Verdonck K, González E, Clark D, Vanham G, Gotuzzo E, Van Camp G, and Van Laer. Possible implication of NFKB1A and NKG2D genes in susceptibility to HTLV-1-Associated Myelopathy/Tropical Spastic Paraparesis in Peruvian patients infected with HTLV-1. *J Med Virol*. 2012 Feb;84(2):319-26.
- Adai V, Maes I, Huyse T, Van den Broeck F, **Talledo M**, Kuhls K, De Doncker S, Maes L, Llanos-Cuentas A, Schönian G, Arevalo J, Dujardin JC. Multilocus genotyping reveals a polyphyletic pattern among naturally antimony-resistant *Leishmania braziliensis* isolates from Peru. *Infect Genet Evol*. 2011 Dec;11(8):1873-80.
- Best I, López G, **Talledo M**, Macnamara A, Verdonck K, González E, Tipismana M, Asquith B, Gotuzzo E, Vanham G, Clark D. An Interferon- $\gamma$  ELISPOT Assay with Two Cytotoxic T Cell Epitopes Derived from HTLV-1 Tax Region 161-233 Discriminates HTLV-1-Associated Myelopathy/Tropical Spastic Paraparesis Patients from Asymptomatic HTLV-1 Carriers in a Peruvian Population. *AIDS Res Hum Retroviruses*. 2011 May 9. [Epub ahead of print]

- **Talledo M**, López G, Huyghe JR, Verdonck K, Adauí V, González E, Best I, Clark D, Vanham G, Gotuzzo E, Van Camp G, Van Laer L. The role of KIR gene content and HLA-C group in susceptibility to HTLV-1-associated myelopathy / tropical spastic paraparesis in Peru. *Hum Immunol.* 2010 Aug;71(8):804-8.
- **Talledo M**, López G, Huyghe JR, Verdonck K, Adauí V, González E, Best I, Clark D, Vanham G, Gotuzzo E, Van Camp G, Van Laer L. Evaluation of host genetic and viral factors as surrogate markers for HTLV-1-associated myelopathy/tropical spastic paraparesis in Peruvian HTLV-1-infected patients. *J Med Virol.* 2010 Mar;82(3):460-6.
- **Talledo M**, Gavilan M, Choque C, Aiquipa L, Arévalo J, Montoya Y. Comparative allele distribution at 16 STR loci between the Andean and coastal population from Peru. *Forensic Sci Int Genet.* 2010 Jul;4(4):e109-17.
- Contreras CA, Ochoa TJ, Lacher DW, DebRoy C, Navarro A, **Talledo M**, Donnenberg MS, Ecker L, Gil AI, Lanata CF, Cleary TG. Allelic variability of critical virulence genes (*ea*, *bfpA* and *perA*) in typical and atypical enteropathogenic *Escherichia coli* in Peruvian children. *J Med Microbiol.* 2010 Jan;59(Pt 1):25-31.
- Montoya, Y., Leon, C., **Talledo, M.**, Nolasco, O., Padilla, C., Muñoz-Najar, U. and Barker, D.C. (1997). Recombinant antigens for specific and sensitive serodiagnosis of Latin American tegumentary Leishmaniasis. *Transactions of the Royal Society of Tropical Medicine and Hygiene* 91, 674 -676

#### International Courses

1. "Computational Approaches to Analyzing Microarray Data". June 20-24, 2012. Madison-Wisconsin USA
2. Human Participants Protection Education for Research Teams online course, sponsored by the National Institutes of Health (NIH), on 01/26/2006
3. Genetic epidemiology of Complex Diseases. 22-26 August 2005. Erasmus Medical Center, Rotterdam, The Netherlands.
4. Searching Genes in Complex Disorders. 15-19 August 2005. Erasmus Medical Center, Rotterdam, The Netherlands.
5. Case Control Studies. 15-19 August 2005. Erasmus Medical Center, Rotterdam, The Netherlands.
6. Principles of Genetic Epidemiology. 8-12 August 2005. Erasmus Medical Center, Rotterdam, The Netherlands.
7. Theoretical and practical course: "I Curso Internacional de Genética Forense – Haplotipos del cromosoma Y" Medellín-Colombia, 25-28<sup>th</sup> March 2003
8. Theoretical and practical course "Nuevas Metodologías de Análisis de ADN en Estudios de Paternidad In Vivo y Post Mortem" 24-28<sup>th</sup> Buenos Aires - Argentina
9. Theoretical and practical course "Uso de Perfiles Genéticos en Forense y Paternidad Implicaciones Éticas y Legales" Caracas-Venezuela
10. Theoretical and practical course "Yeast Molecular Genetics" 26-30<sup>th</sup> May 1997 Trieste, Italia
11. Theoretical and practical course "Transfection and Expression In Parasites" Buenos Aires-Argentina

## **Congress and Scientific Meetings**

1. American Association for Cancer Research Annual Meeting. 31 Marzo – 4 Abril. 2012
2. 17th International Symposium on Human Identification October 9-12, 2006, Nashville-USA
3. 15<sup>th</sup> International Symposium On Human Identification. October 4-7 2004. Phoenix-USA
4. Parentage and Mixture Statistics Workshop October 4, 2004. Phoenix-USA
5. Seminario Internacional recuperando Identidades: Antropología y Genética Forense en las Graves Violaciones a los Derechos Humanos. Universidad Nacional Mayor der San Marcos. 16-17 October 2003. Lima-Perú
6. Diversidad Genómica en Humanos y patógenos. Universidad Nacional San Antonio Abad del Cusco 6-9 de October 2003. Cusco-Perú
7. I Foro Internacional Sobre Identificación Humana por ADN en Criminalística. 8-10 July 2002. Lima Peru
8. 12th International Symposium on Human Identification. 9-12 October 2001 Biloxi, Mississippi. USA.
9. Primera Jornada Iberoamericana de Genética Forense. Sociedad Argentina de Genética Forense. 11 December 2000. Buenos Aires - Argentina
10. Curso Internacional de “ Toxicología Genética”. Universidad Nacional Agraria La Molina. 6 -11 November 2000. Lima-Perú
11. “Análisis de la Variabilidad Genética y sus Aplicaciones Actuales”. Universidad Peruana Cayetano Heredia. 22-26 March 1999

## **Organized courses**

1. XIII Curso y Taller de Adiestramiento en Técnicas de Biología Molecular Aplicadas a Enfermedades Infecciosas y Tropicales. Universidad Peruana Cayetano Heredia. February 2016
2. XII Curso y Taller de Adiestramiento en Técnicas de Biología Molecular Aplicadas a Enfermedades Infecciosas y Tropicales. Universidad Peruana Cayetano Heredia. February 2015
3. XI Curso y Taller de Adiestramiento en Técnicas de Biología Molecular Aplicadas a Enfermedades Infecciosas y Tropicales. Universidad Peruana Cayetano Heredia. February 2014
4. X Curso y Taller de Adiestramiento en Técnicas de Biología Molecular Aplicadas a Enfermedades Infecciosas y Tropicales. Universidad Peruana Cayetano Heredia. February 2013
5. IX Curso y Taller de Adiestramiento en Técnicas de Biología Molecular Aplicadas a Enfermedades Infecciosas y Tropicales. Universidad Peruana Cayetano Heredia. February 2012
6. VIII Curso y Taller de Adiestramiento en Técnicas de Biología Molecular Aplicadas a Enfermedades Infecciosas y Tropicales. Universidad Peruana Cayetano Heredia. February 2011

7. VII Curso y Taller de adiestramiento en Técnicas de Biología Molecular Aplicadas a Enfermedades Infecciosas y Tropicales (PCR, Real Time-PCR y Secuenciamiento). February 2010

### Oral presentations in International and National meetings

14<sup>th</sup> International Conference on Human Retrovirology: HTLV and related retroviruses. Salvador, Bahia-Brazil. July 1st to July 4th 2009

1. KIR genes and HLA-C subgroup frequencies in Peruvian HAM/TSP patients and healthy HTLV-1 carriers
2. Evaluation of candidate genes and viral markers for HTLV-1-associated myelopathy/tropical spastic paraparesis in Peruvian HTLV-1-infected individuals

Primera Conferencia de HTVL en el Perú. Lima-Peru 27 y 28 de Julio del 2009.

1. Aspectos de Genética Humana en la infección por HTLV-1

American Phytopathology Society Annual Meeting. August 7-11, 2010 - Charlotte USA.

1. **Talledo M.**, Morales S., Trinidad E., Arévalo J., Trelles A., Montoya Y. Description of two *Phytomonas* genotypes associated to oil palm diseases in Peru: Marchitez Sorpresiva and a new disease manifestation - Marchitez Lenta

XXI CONGRESO PERUANO DE FITOPATOLOGIA Tarapoto-Perú, del 05 al 10 de Setiembre del 2010  
Abstract y presentación oral:

1. Morales S., **Talledo M.**, Trinidad E., Trelles A., Tirado H., Arévalo J., Montoya Y. Malezas e insectos: posibles reservorios y vectores de *Phytomonas* asociadas a enfermedades en palma aceitera.

### Poster presentation

1. Melo Omar, Gotuzzo Eduardo, López Giovanni, **Talledo Michael**. KIR genes and adult T-cell leukemia/ lymphoma in patients infected with HTLV-1. *Retrovirology* 2015 12(Suppl 1):P16. 17th International Conference on Human Retroviruses: HTLV and Related Viruses Trois Ilets, Martinique. 18-21 June 2015
2. Rúa Jorge, Rosado Jason, López Giovanni, Alvarez Carolina, Clark Daniel, Gotuzzo Eduardo, **Talledo Michael**. IL8 Gene Polymorphism SNP rs4073 analysis between HTLV-1 Associated Myelopathy/Tropical Spastic Paraparesis and HTLV-1 Carriers. *Retrovirology* 2015 12(Suppl 1):O36. 17th International Conference on Human Retroviruses: HTLV and Related Viruses Trois Ilets, Martinique. 18-21 June 2015
3. Bernia Cynthia, Rosado Jason, López Giovanni, Gotuzzo Eduardo, **Talledo Michael**. A NKG2D Thr72Ala polymorphism is not associated with HAM/TSP and proviral load values in Peruvian HTLV-1 infected patients with HAM/TSP and asymptomatic carriers. *Retrovirology* 2015 12(Suppl 1):O37. 17th International Conference on Human Retroviruses: HTLV and Related Viruses Trois Ilets, Martinique. 18-21 June 2015
4. **Michael Talledo**, Jason Rosado, Carolina Alvarez, Daniel Clark, Eduardo Gotuzzo. Differential expression in genes involved in the NF- $\kappa$ B pathway among asymptomatic HTLV-1 carriers and HAM/TSP patients in Peru. Conference on Human Retrovirology: HTLV and Related Viruses held in Montreal on June 26-30, 2013.
5. Morayma Temoche, Jason Rosado, Carolina Alvarez, Daniel Clark, Eduardo Gotuzzo, **Michael Talledo**. Proteomic profiles among asymptomatic HTLV-1 carriers and HAM/TSP patients in Peru. Conference on Human Retrovirology: HTLV and Related Viruses held in Montreal on June 26-30, 2013.

6. Jason Rosado, Carolina Alvarez, Daniel Clark, Eduardo Gotuzzo, **Michael Talledo**. Differential miRNA expression profiles in Peruvian HTLV-1 carriers. 16th International Conference on Human Retrovirology: HTLV and Related Viruses held in Montreal on June 26-30, 2013.
7. Carolina Alvarez, Kristien Verdonck, Martín Tipismana, **Michael Talledo**, Jason Rosado, Daniel Clark, Johan Van Weyenbergh, Anne-Mieke Vandamme, Eduardo Gotuzzo. HAM/TSP in relatives of HAM/TSP cases and in relatives of asymptomatic HTLV-1 carriers. 16th International Conference on Human Retrovirology: HTLV and Related Viruses held in Montreal on June 26-30, 2013.
8. **Michael Talledo**, Giovanni López, Kristien Verdonck, Elsa González, Martin Tipismana, Eduardo Gotuzzo, Daniel Clark. Pattern mRNA expression similarities between ATL patients and patients coinfecting with HTLV-I-Strongyloides stercoralis. *Retrovirology* 2011 8(Suppl 1):A165.
9. **Michael Talledo**, Giovanni López, Jeroen R Huyghe, Kristien Verdonck, Elsa González, Martin Tipismana, Daniel Clark, Guido Vanham, Eduardo Gotuzzo, Guy Van Camp, Lut Van Laer. Host genetic factors associated to proviral load in Peruvian HTLV-1 infected. *Retrovirology* 2011 8(Suppl 1): A147.
10. Sandra Morales, Jason Rosado, Giovanni López, Jeroen Huyghe, Kristien Verdonck, Elsa González, Martin Tipismana, Daniel Clark, Guido Vanham, Eduardo Gotuzzo, Guy Van Camp, Lut Van Laer, **Michael Talledo**. HLA-G 14 bp insertion/deletion polymorphism is not associated to proviral load levels and presence of HAM/TSP in Peruvian HTLV-1 infected individuals
11. Britta Moens, Daniele Decanine, Ricardo Khouri, Giovanni Lopez, **Michael Talledo**, Eduardo Gotuzzo, Françoise Bex, Bernardo Galvão Castro, Anne-Mieke Vandamme, Johan Van Weyenbergh. Ascorbic acid has superior antiviral and antiproliferative effects over IFN-alpha in HAM/TSP PBMC ex vivo. *Retrovirology* 2011 8(Suppl 1):A61.
12. **Michael Talledo**, Giovanni López, Jeroen R. Huyghe, Kristien Verdonck, Elsa González, Daniel Clark, Guido Vanham, Eduardo Gotuzzo, Guy Van Camp and Lut Van Laer. Host genetic factors and susceptibility to HTLV-1-Associated Myelopathy/Tropical Spastic Paraparesis in Peruvian HTLV-1 Infected

### Research Projects Participation

Coordinator of the Peruvian HTLV-1 Component, project” Development a Rapid Diagnostic Test for HTLV-1 infection. 2014-2016

Coordinator of the Peruvian component in the project about “Identification of biomarkers and therapeutic targets for human T-lymphotropic virus 1-associated myelopathy/tropical spastic paraparesis in Peru”. Institute of Tropical Medicine “Alexander von Humboldt” Universidad Peruana Cayetano Heredia – Katholieke Universiteit Leuven, Rega Institute for Medical Research, Clinical and Epidemiological Virology, Belgium. Vlaamse Interuniversitaire Raad. (VLIR). 2010-2015

Responsible for the genetic part in Peru : Identification of genetic polymorphisms involved in human susceptibility to HTLV-1 infection in children from endemic area. Institute of Tropical Medicine “Alexander von Humboldt” Universidad Peruana Cayetano Heredia INSERM U550, Laboratoire de Génétique Humaine des Maladies. Association pour la recherche sur le cancer France 2009-2011.

PhD student. Host genetic, immune and viral factors in transmission and diseases expression of Human T-Lymphotropic Virus type 1 (HTLV-1) in Peru. Institute of Tropical Medicine “Alexander von Humboldt” Universidad Peruana Cayetano Heredia – Antwerp University – Institute of Tropical Medicine Antwerp-Belgium. Vlaamse Interuniversitaire Raad. (VLIR).