

## CURRICULUM VITAE RESUMIDO

### INFORMACION GENERAL

**Nombre:** Juan Miguel Pascale B.  
**Fecha de Nacimiento:** Diciembre 21, 1957. **Edad:** 60 años.  
**Grado Profesional:** Doctor en Medicina, Maestría en Ciencias Biomédicas, PhD en Patología.

### EDUCACIÓN

- 1-Universidad de Panamá, Facultad de Medicina. Desde 1977 hasta 1983; Area: Medicina, Título: **Doctor en Medicina**, Marzo 26, 1983.
- 2-Universidad de Costa Rica, Costa Rica. Facultad de Microbiología. Desde Abril de 1988 hasta Agosto de 1988. **Postgrado en Microbiología**.
- 3-Instituto Karolinska , Departamento de Inmunología, Estocolmo, Suecia. Desde 1988 hasta Junio de 1990. Area de estudio: Microbiología e Inmunología. Título: **Maestría en Ciencias Biomédicas**.
- 4-Instituto Oswaldo Cruz y Universidad Estatal del Estado de Rio de Janeiro, Brasil. Desde Julio hasta Diciembre de 1991. **Curso de Postgrado en Biología Molecular**.
- 5-Instituto Alexander Von Humboldt , Perú. Desde Junio hasta Julio de 1992. **Postgrado en Métodos Epidemiológicos en Medicina Tropical**.
- 6-Universidad de Panamá, Panamá, Agosto 1992 hasta Mayo de 1993. **Curso de Postgrado en Medicina Familiar**.
- 7-Universidad de Indiana, Escuela de Medicina, Departamento de Patología y Medicina de Laboratorio, Indiana, USA. Desde Septiembre de 1995 hasta Noviembre 1998. Título: **Doctor (PhD) en Patología** (con énfasis en Inmunología y Biología Molecular).

### EXPERIENCIA PROFESIONAL

- 1983-1984. Primer Año de Internado, Hospital Santo Tomás, Panamá.
- 1984-1985. Segundo Año de Internado in Hospital Aquilino Tejeira, Panamá.
- 1985-1986. Medicina General, Cuarto de Urgencias, Hospital General, CSS, Panamá.
- 1986-1988. Director Médico del Centro de Salud de Nombre de Dios, Colón, Panamá.
- 1988-1994. Investigador Asociado, Centro para el Diagnóstico e Investigación de Enfermedades Parasitarias, Escuela de Medicina, Universidad de Panamá.
- 1992-presente. Profesor Asistente de Inmunología, Departamento de Microbiología, Facultad de Medicina, Universidad de Panamá.
- 1995-1998. Docente del curso de Biología Molecular del Departamento de Patología, Escuela de Medicina, Universidad de Indiana, USA.
- 1999 - presente. Jefe de la Sección de Genómica y Proteómica del Instituto Conmemorativo Gorgas de Estudios en Salud.
- 2001- presente. Profesor de Inmunología y Biología Molecular de la Maestría en Ciencias Biomédicas.
- 2003 - presente. Profesor de Métodos de Amplificación y de Biología Molecular del Doctorado en Biotecnología.
- 2007- 2008. Sub-director del Instituto Conmemorativo Gorgas de Estudios de la Salud.
- 2009 - 2011. Jefe de la Sección de Genómica y Proteómica del Instituto Conmemorativo Gorgas de Estudios en Salud.
- 2012-presente: miembro de Comité de Bioética del Instituto Gorgas de Estudios de la Salud
- 2011-presente. Sub-director del Instituto Conmemorativo Gorgas de Estudios de la Salud.

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**PUBLICACIONES** (31 publicaciones del 2012 al 2017). Total: 85

1. Gatanaga H, Brumme ZL, Adland E, Reyes-Terán G, Avila-Rios S, Mejía-Villatoro CR, Hayashida T, Chikata T, Van Tran G, Van Nguyen K, Meza RI, Palou EY, Valenzuela-Ponce H, **Pascale JM**, Porras-Cortés G, Manzanero M, Lee GQ, Martin JN, Carrington MN, John M, Mallal S, Poon AFY, Goulder P, Takiguchi M, Oka S; International HIV Adaptation Collaborative. Potential for immune-driven viral polymorphisms to compromise antiretroviral-based preexposure prophylaxis for prevention of HIV-1 infection. *AIDS*. 2017 Sep 10;31(14):1935-1943.
2. Chaillon A, Avila-Ríos S, Wertheim JO, Dennis A, García-Morales C, Tapia-Trejo D, Mejía-Villatoro C, **Pascale JM**, Porras-Cortés G, Quant-Durán CJ, Lorenzana I, Meza RI, Palou EY, Manzanero M, Cedillos RA, Reyes-Terán G, Mehta SR; Mesoamerican Project Group. Identification of major routes of HIV transmission throughout Mesoamerica. *Infect Genet Evol*. 2017 Oct;54:98-107. doi: 10.1016/j.meegid.2017.06.021. Epub 2017 Jun 20.
3. Cáceres L, Suarez JA, Jackman C, Galbster A, Miranda R, Murgas I, **Pascale J**, Sosa N, Rodriguez-Morales AJ. Dermatitis Due to *Paederus Colombinus*: Report of an Epidemic Outbreak of 68 Cases in the Province of Darien, Panama. *Cureus*. 2017 Apr 12;9(4): doi: 10.7759/cureus.1158.
4. Ábrego LE, Delfraro A, Franco D, Castillo J, Castillo M, Moreno B, López-Vergès S, **Pascale JM**, Arbiza J. Genetic variability of human respiratory syncytial virus group B in Panama reveals a novel genotype BA14. *J Med Virol*. 2017 Oct;89(10):1734-1742. doi: 10.1002/jmv.24838. Epub 2017 May 23.
5. Gundacker ND, Carrera JP, Castillo M, Díaz Y, Valenzuela J, Tamhane A, Moreno B, **Pascale JM**, Tesh RB, López-Vergès S. Clinical Manifestations of Punta Toro Virus Species Complex Infections, Panama, 2009. *Emerg Infect Dis*. 2017 May;23(5):872-874. doi: 10.3201/eid2305.161925.
6. Fietze KM, **Pascale JM**, Moreno B, Chackerian B, Peabody DS. Pathogen-specific deep sequence-coupled biopanning: A method for surveying human antibody responses. *PLoS One*. 2017 Feb 2;12(2):e0171511. doi: 10.1371/journal.pone.0171511. eCollection 2017.
7. Gabster A, Mohammed DY, Arteaga GB, Castellero O, Mojica N, Dymond J, Varela M, **Pascale JM**. Correlates of Sexually Transmitted Infections among Adolescents Attending Public High Schools, Panama, 2015. *PLoS One*. 2016 Sep 22;11(9):e0163391. doi: 10.1371/journal.pone.0163391.
8. Araúz D, De Urriola L, Jones J, Castillo M, Martínez A, Murillo E, Troncoso L, Chen M, Abrego L, Armien B, **Pascale JM**, Sosa N, López-Verges S, Moreno B. Febrile or Exanthematous Illness Associated with Zika, Dengue, and Chikungunya Viruses, Panama. *Emerg Infect Dis*. 2016 Aug;22(8):1515-7.
9. Mendoza Y, Castillo Mewa J, Martínez AA, Zaldívar Y, Sosa N, Arteaga G, Armien B, Bautista CT, García-Morales C, Tapia-Trejo D, Ávila-Ríos S, Reyes-Terán G, Bello G, **Pascale JM**. HIV-1 Antiretroviral Drug Resistance Mutations in Treatment Naïve and Experienced Panamanian Subjects: Impact on National Use of EFV-Based Schemes. *PLoS One*. 2016 Apr 27;11(4).

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10. Grugni V, Battaglia V, Perego UA, Raveane A, Lancioni H, Olivieri A, Ferretti L, Woodward SR, **Pascale JM**, Cooke R, Myres N, Motta J, Torroni A, Achilli A, Semino O. Exploring the Y Chromosomal Ancestry of Modern Panamanians. *PLoS One*. 2015 Dec 4;10(12):e0144223.
11. Moreno B, Abrego L, Carrera JP, Franco D, Gaitán M, Castillo J, **Pascale JM**, Arbiza J. Detection of Human Bocavirus infection in Panamanian children with respiratory illness. *J Med Virol*. 2015 Aug 7.
12. Martínez AA, Zaldívar Y, Arteaga G, de Castillo Z, Ortiz A, Mendoza Y, Castellero O, Castillo JA, Cristina J, **Pascale JM**. Phylogenetic Analysis of Hepatitis B Virus Genotypes Circulating in Different Risk Groups of Panama, Evidence of the Introduction of Genotype A2 in the Country. *PLoS One*. 2015 Jul 31;10(7).
13. Trento A, Ábrego L, Rodríguez-Fernandez R, González-Sánchez MI, González-Martínez F, Delfraro A, **Pascale JM**, Arbiza J, Melero JA. Conservation of G-Protein Epitopes in Respiratory Syncytial Virus (Group A) Despite Broad Genetic Diversity: Is Antibody Selection Involved in Virus Evolution? *J Virol*. 2015 Aug 1;89(15):7776-85.
14. Martínez AA, Zaldívar YY; CSS-NAT Group, De Castillo Z, Ortiz AY, Mendoza Y, Cristina J, **Pascale JM**. High diversity of hepatitis B virus genotypes in Panamanian blood donors: a molecular analysis of new variants. *PLoS One*. 2014 Aug 5;9(8)
15. Hakre S, Arteaga GB, Núñez AE, Arambu N, Aumakhan B, Liu M, Peel SA, **Pascale JM**, Scott PT; The Panama HIV EPI Group. Prevalence of HIV, Syphilis, and Other Sexually Transmitted Infections among MSM from Three Cities in Panama. *J Urban Health*. 2014 Jun 14.
16. Mendoza Y, Martínez AA, Castillo Mewa J, González C, García-Morales C, Avila-Ríos S, Reyes-Terán G, **Pascale JM**, Bello G. Human Immunodeficiency Virus Type 1 (HIV-1) subtype B epidemic in Panama is mainly driven by dissemination of country-specific CLADES. *PLoS One* 2014 Apr;9(4).
17. Yaxelis Mendoza, Gonzalo Bello, Juan Castillo Mewa, Alexander A. Martínez, Claudia González, Claudia García-Morales, Santiago Ávila-Ríos, Gustavo Reyes-Terán, **Juan M. Pascale**. Molecular Epidemiology of HIV-1 in Panama: origin of non-B subtypes in samples collected from 2007 to 2013. *PLoS One*. 2014 Jan 13;9(1).
18. Blas Armien, **Juan M. Pascale**, Carlos Muñoz, Jamieth Mariñas, Heydy Núñez, Milagro Herrera, José Trujillo, Deyanira Sánchez, Yaxelis Mendoza, Brian Hjelle, and Frederick Koster , HRG. Hantavirus Fever without Pulmonary Syndrome in Panama. *Am J Trop Med Hyg*. 2013 Sep;89(3):489-94.
19. Martinez AA, Zaldivar Y, Hong CCh, Alvarado-Mora MV, Smith R, Ortiz AY, Pinho JR, Cristina J, **Pascale JM**. Molecular characterisation of hepatitis B virus in the resident Chinese population in Panama City. *Mem Inst Oswaldo Cruz*. 2013 Aug;108(5):541-7.

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20. Estripeaut D, Mosser J, Doherty M, Acosta W, Shah H, Castaño E, Luciani K, **Pascale JM**, Bollinger RC, Page KR. Mortality and Long-Term Virologic Outcomes in Children and Infants Treated with Lopinavir/Ritonavir. *Pediatr Infect Dis J*. 2013 Jun 24.
21. Hakre S, Arteaga G, Núñez AE, Bautista CT, Bolen A, Villarroel M, Peel SA, Paz-Bailey G, Scott PT, **Pascale JM**; Panama HIV EPI Group. Prevalence of HIV and other sexually transmitted infections and factors associated with syphilis among female sex workers in Panama. *Sex Transm Infect*. 2013 Mar;89(2):156-64.
22. Martinez AA, Castillo J, Sanchez MC, Zaldivar Y, Mendoza Y, Tribaldos M, Acosta P, Smith RE, **Pascale JM**. Molecular diagnosis of echovirus 30 as the etiological agent in an outbreak of aseptic meningitis in Panama: May - June 2008. *J Infect Dev Ctries*. 2012 Dec 15;6(12):836-41.
23. Franco D, Delfraro A, Abrego L, Cano M, Castillo C, Castillo M, Castillo J, **Pascale J**, Arbiza J. High genetic diversity and predominance of Rhinovirus A and C from Panamanian hospitalized children under five years with respiratory infections. *Virology*. 2012 Nov 1;9(1):257.
24. Hakre S, Arteaga G, Núñez AE, Bautista CT, Bolen A, Villarroel M, Peel SA, Paz-Bailey G, Scott PT, **Pascale JM**; the Panama HIV EPI Group. Prevalence of HIV and other sexually transmitted infections and factors associated with syphilis among female sex workers in Panama. *Sex Transm Infect*. 2012 Oct 2.
25. Paz-Bailey G, Shah N, Creswell J, Guardado M, Nieto A, Estrada M, Cedillos R, **Pascale J**, Monterroso E. Risk Behaviors and STI Prevalence Among People with HIV in El Salvador. *Open AIDS J*. 2012;6:205-12. doi: 10.2174/1874613601206010205. Epub 2012 Sep 7.
26. Sosa N, Guerra I, Abrego L, Cisneros J, Castillo J, Nieto-Guevara J, Gálvez C, Moltó Y, Smith RE, **Pascale JM**. Successful public health response to four cases of imported measles in Panama. *J Infect Dev Ctries*. 2012 Aug 21;6(8):605-10. doi: 10.3855/jidc.2610.
27. Chia BS, Lanzas F, Rifat D, Herrera A, Kim EY, Sailer C, Torres-Chavolla E, Narayanaswamy P, Einarsson V, Bravo J, **Pascale JM**, Ioerger TR, Sacchettini JC, Karakousis PC. Use of multiplex allele-specific polymerase chain reaction (MAS-PCR) to detect multidrug-resistant tuberculosis in Panama. *PLoS One*. 2012;7(7):e40456. Epub 2012 Jul 6.
28. Ortiz A, Capitan Z, Mendoza Y, Cisneros J, Moreno B, Zaldivar Y, Garcia M, Smith RE, Motta J, **Pascale JM**. Simple, specific molecular typing of dengue virus isolates using one-step RT-PCR and restriction fragment length polymorphism. *J Virol Methods*. 2012 Oct;185(1):129-35.
29. Perego UA, Lancioni H, Tribaldos M, Angerhofer N, Ekins JE, Olivieri A, Cooke R, **Pascale JM**, Woodward SR, Motta J, Achilli A. Decrypting the mtDNA gene pool of modern Panamanians. *PLoS One*. 2012;7(6):e38337. Epub 2012 Jun 4.
30. Smith RE and **Pascale JM**. Personalized Medicine for Cancer in the Developing World. *Current Trends in Biotechnology and Pharmacy*. 2012 April; 6(2):119-144.

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31. Ramirez JL, Souza-Neto J, Torres Cosme R, Rovira J, Ortiz A, Pascale JM, Dimopoulos G. Reciprocal tripartite interactions between the Aedes aegypti midgut microbiota, innate immune system and dengue virus influences vector competence. PLoS Negl Trop Dis. 2012 Mar; 6(3):e1561. Epub 2012 Mar 6.

#### **HONORES Y PREMIOS**

Miembro Distinguido del Sistema Nacional de Investigación, SENACYT. 2011-2013, 2014-2016, 2016-2018.

#### **AREAS DE INVESTIGACION**

1. Inmunopatología de enfermedades infecciosas (Influenza, HIV, Leishmaniasis, Hantavirus, Zika y Dengue).
2. Factores moleculares y genéticos asociados a la evolución de enfermedades infecciosas (HIV, ITSs, Hantavirus y Malaria).
3. Patología molecular del Cáncer (Cáncer Cérvico Uterino u Tumores del Estroma Gastrointestinal)



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## CERTIFICATE OF ACHIEVEMENT

Participant's Name: Pascalle, Juan  
Course: Module 1: History of Human Subjects  
Completion Date: May 2, 2018  
Credits: 1

Pascalle, Juan (jimpascale@gorgas.gob.pa) has successfully responded correctly to 80% or more of questions that evaluated understanding and comprehension of the following learning objectives:

- What key events laid the foundation for the human subjects protections in place today?
- What is the significance of the Declaration of Helsinki?
- What is the significance of the Belmont report?
- What U.S. federal regulations address the protection of human subjects in clinical trials?
- How do the ICH and CIOMS guidelines relate to FDA regulations?

This course is approved for one (1) continuous learning point (CLP) towards the Contracting Officer Technical Representative (COTR) refresher certification. This training course also qualifies for one (1) ESA credit required by NIH's extramural Health Scientists Administrators.



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## CERTIFICATE OF ACHIEVEMENT

Participant's Name: Pascale, Juan  
Course: Module 2: Regulatory Framework  
Completion Date: May 2, 2018  
Credits: 1

Pascale, Juan (jimpascale@gorgas.gob.pa) has successfully responded correctly to 80% or more of questions that evaluated understanding and comprehension of the following learning objectives:

- What government agencies oversee human subjects research?
- What U.S. federal regulations provide the standards for how clinical trials are conducted in the U.S.?
- What are the primary responsibilities of the trial sponsor?
- What is the role of an institutional review board during a clinical trial?
- What are the investigator's primary responsibilities during the clinical trial?
- With which institutional requirements must investigators comply when conducting human subjects research?

This course is approved for one (1) continuous learning point (CLP) towards the Contracting Officer Technical Representative (COTR) refresher certification. This training course also qualifies for one (1) ESA credit required by NIH's extramural Health Scientists Administrators.



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## CERTIFICATE OF ACHIEVEMENT

Participant's Name:

Pascale, Juan

Course:

Module 3: Planning Human Subject Research

Completion Date:

May 2, 2018

Credits:

1

Pascale, Juan (jmpascale@gorgas.gob.pa) has successfully responded correctly to 80% or more of questions that evaluated understanding and comprehension of the following learning objectives:

- How are trials designed to minimize biases that can affect the outcome of the research?
- What elements are required for every protocol?
- What additional written forms and plans supplement the protocol?
- What types of review might the protocol undergo prior to the clinical trial?
- What types of conflicts of interest are addressed by U.S. federal regulations?
- What is the requirement for publishing clinical trial results?

This course is approved for one (1) continuous learning point (CLP) towards the Contracting Officer Technical Representative (COTR) refresher certification. This training course also qualifies for one (1) ESA credit required by NIH's extramural Health Scientists Administrators.





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## CERTIFICATE OF ACHIEVEMENT

Participant's Name: Pascale, Juan  
Course: Module 4: Conducting Human Subject Research  
Completion Date: May 2, 2018  
Credits: 1

Pascale, Juan (jimpascale@gorgas.gob.pa) has successfully responded correctly to 80% or more of questions that evaluated understanding and comprehension of the following learning objectives:

- What documentation is required during the clinical trial?
- What is the purpose of the informed consent process?
- What procedures and cautions can help to ensure trial integrity?
- What procedure is used to make changes to the protocol?
- What written reports are required for clinical studies?
- What product information is required for clinical studies?

This course is approved for one (1) continuous learning point (CLP) towards the Contracting Officer Technical Representative (COTR) refresher certification. This training course also qualifies for one (1) ESA credit required by NIH's extramural Health Scientists Administrators.