

Dr. Hector Rangel Villalobos



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Es Licenciado en Biología, Maestro y Doctor en Genética Humana. Profesor-Investigador Titular "C" y Director del Instituto de Investigación en Genética Molecular (2000-actual). Ha recibido financiamiento por parte de CONACyT (2000, 2005, y 2009), UdeG (2004, 2006), COECYT-JAL (2008), AECID-España (2009) y de las empresas QIAGEN México (2014) y Distribuidora Comercial Zogbi SA de CV (2015).

Es delegado de México ante el SLAGF (2015-2016) y secretario del Grupo Hispano-Portugués de la International Society of Forensic Genetics (GHEP-ISFG).

Es autor de 9 artículos divulgación científica, 6 capítulos en libros, 4 memorias en extenso, de alrededor de 100 artículos en revistas científicas indexadas, de los cuales en la mitad han sido dirigidos y/o escritos por el mismo, y en los demás ha participado como colaborador. Dichos trabajos acumulan alrededor de 1700 citas. Ha sido conferencista o profesor invitado en una centena de eventos académicos nacionales e internacionales, relacionados con la antropología física y la genética forense, principalmente. Ha dirigido 18 tesis posgrado y 24 de licenciatura, tanto en la UdeG como en otras universidades del país (UNAM, UAA, UACJ, UAS).

Reconocimientos y perfil

- Miembro del Sistema Nacional de Investigadores, nivel II
- Perfil PROMEP
- Ganador de dos premios del INAH.
- 5 veces ganador del premio "Héctor Márquez Monter" por la AMGH (1999, 2004, 2008, 2010, 2014)
- Miembro del Cuerpo Académico "Genética de Poblaciones Humanas"

Líneas de investigación

- Antropología Molecular
- Genética Forense

Proyecto de investigación actual

- Enfoque integral de antropología genética de poblaciones mexicanas mediante STRs, Y-STRs, X-STRs y mtDNA

PUBLICACIONES DESTACADAS ÚLTIMOS AÑOS (1ER AUTOR O SENIOR*)

1. González-Martín A, et al. (2015*). Demographic History of Indigenous Populations in Mesoamerica Based on mtDNA Sequence Data. PLoS One. Aug 20;10(8):e0131791.
2. Rangel-Villalobos H, et al. (2016). Importance of the geographic barriers to promote gene drift and avoid (pre and post-Columbian) gene flow in Mexican Native groups: evidence from forensic STR loci". Am J Phys Anthropol. 2016 Jun;160(2):298-316
3. Aguilar-Velázquez JA, et al (2016*). Population data of 23 STR loci (PowerPlex® Fusion System) in Mexican Mestizos from the West Region. Int J Legal Med. Nov;130(6):1489-1491.
4. Ramos-González B, et al. (2017*), Genetic population data of the PowerPlex® Y, AmpFISTR® Yfiler™, and PowerPlex® Y23 in Mexican-Mestizos from Monterrey, Nuevo León (Northeast, Mexico). Forensic Sci Int Genet Jul;29:e21-e22
5. Cortés-Trujillo I, et al. (2017*). Forensic Efficiency parameters of the kit Investigator Argus X-12 in two Mestizo and seven Amerindian populations from Mexico. Legal Med (Tokyo) 26:62-64

PUBLICACIONES DESTACADAS COMO COLABORADOR

6. Moreno-Estrada A, et al. (2014) The Genetics of Mexico Recapitulates Native American Substructure and Impacts Biomedical Traits. SCIENCE 344(6189):1280-5.
7. Raghavan M, et al. (2015) Genomic evidence for the Pleistocene and recent population history of Native Americans. SCIENCE. Aug 21;349(6250):aab3884.

English Version

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Holds a degree in Biology and a Master's Degree and PhD in Human Genetics. He is a Research-Professor and Director of the Institute of Research on Molecular Genetics (2000-). CONACyT, the University of Guadalajara, COECYT-JAL, AECID-Spain and private enterprises as GIAGEN Mexico and Distribuidora Comercial Zogbi SA de CV has financed his research.

He is Mexico's delegate to the SLAGF (2015-2016) and secretary of the Hispano-Portuguese of the International Society of Forensic Genetics (GHEP-ISFG).

He is author of nine scientific papers, six book chapters, four memories, approximately 100 articles in indexed scientific journals. His research papers had been cited more than 1700 times. He has participated in more than 100 national and international events related mainly with anthropology, physics and forensic genetics. He has directed 18 graduate and 24 undergraduate thesis.

Acknowledgment and Profile

- National Researchers System member, level 2.
- PROMEP'S Profile
- Two times winner of INAH'S awards
- Five times winner of the Award "Héctor Marquez Monter" by the AMGH (1999, 2004, 2008, 2010, 2014).
- Member of the Academic Group: Human Population Genetics.

Research Lines

- Molecular Anthropology
- Forensic Genetics

Current Research project

- Integral focus of Mexican population anthropologic genetics through STRs, Y-STRs, X-STRs and mtDNA

Recent publications

1. González-Martín A, et al. (2015*). Demographic History of Indigenous Populations in Mesoamerica Based on mtDNA Sequence Data. PLoS One. Aug 20;10(8):e0131791.
2. Rangel-Villalobos H, et al. (2016). Importance of the geographic barriers to promote gene drift and avoid (pre and post-Columbian) gene flow in Mexican Native groups: evidence from forensic STR loci". Am J Phys Anthropol. 2016 Jun;160(2):298-316
3. Aguilar-Velázquez JA, et al (2016*). Population data of 23 STR loci (PowerPlex® Fusion System) in Mexican Mestizos from the West Region. Int J Legal Med. Nov;130(6):1489-1491.
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5. Cortés-Trujillo I, et al. (2017*). Forensic Efficiency parameters of the kit Investigator Argus X-12 in two Mestizo and seven Amerindian populations from Mexico. Legal Med (Tokyo) 26:62-64
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7. Raghavan M, et al. (2015) Genomic evidence for the Pleistocene and recent population history of Native Americans. SCIENCE. Aug 21;349(6250):aab3884.