

Conferencia: La contribución española en Malaria y los esfuerzos para la eliminación

Madrid, 25 de abril de 2012

Myriam Arévalo-Herrera

Fecha y lugar de nacimiento: Bogotá, August 15, 1957

Nacionalidad Colombiana

Estado civil: Married

Profesión: Bacterióloga y laboratorista clínico. Doctorado en Inmunología

1975: Bachillerato, Colegio Policarpa Salavarrieta - Bogotá - Colombia.

1977-81: Bacterióloga y Laboratorista clínico

Entrenamientos de post-grado:

1982: Enero - Abril
Training on techniques of Immunohematology- Transfusion Centre, Hospital Cantonal, Geneva-Switzerland.

Mayo - Julio
WHO Course on Immunology and Immunopathology of Infection Diseases. WHO/IRTC, Lausanne/Switzerland.

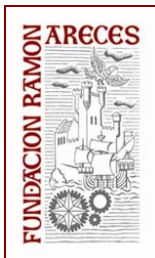
1982-84: Becaria en WHO Immunology Research and Training Centre. Geneva – Switzerland (Prof. PH. Lambert).

1985: Julio - Septiembre
WHO fellowship for working on Application of antigen action techniques for the diagnosis of malaria. WHO/IRTC, Geneva - Switzerland.

1986: Noviembre - Diciembre
Course of Non-radioactive labeling of nucleic acids on the diagnosis of viral, bacterial and parasitic diseases and genetic defects. Instituto Oswaldo Cruz, Rio de Janeiro, Brasil

1987: Octubre - Diciembre
Entrenamiento en Lymphokines/Monokines determination in malaria. New York, University, Medical Center. New York.

1988: Enero - Febrero



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Workshop - Training course in techniques for detection of anti-sporozoite antibodies and of sporozoite in mosquitoes. Geneva - Switzerland.

Octubre

Evaluation of Tumor Necrosis Factor (TNF) in malaria patients of Colombian pacific coast in New York University Medical Center. New York.

1989:

Mayo

International Course of Molecular Biology in Malaria. Departamento de Microbiología, Facultad de Salud, Universidad del Valle. Cali- Colombia.

1990:

Noviembre

Curso de Inmunología: Cells and Molecules of the Immune System and their encounters with foreign invaders. San Jose - Costa Rica.

1991:

Junio - Agosto

Entrenamiento en síntesis y purificación de la CS *P. vivax* synthetic peptides and immunological evaluation. Lausanne, Switzerland.

1994:

Abril

Curso de refrescamiento: Course on the Immunology of Infectious Diseases. WHO/TDR special program and Universidad Del Valle. Cali -Colombia.

1998:

Curso en Biología de parásitos: Marine Biological.

Laboratory Woods Hole, MA. USA. (June 12 - August 14).

1999:

PhD. Faculty of Science, Lausanne University, Switzerland.

POSICIÓN ACTUAL:

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PUBLICACIONES:

1. Herrera, S., Perlaza, B.L., **Herrera de M.**, Clavijo, C., y Alzate, A., **1987**. Capacidad inhibitoria del crecimiento intraeritrocítico *del Plasmodium falciparum* en sueros de áreas maláricas. Colombia Médica, 18:7-13.
2. Herrera, S., Suárez, M.F., Quiñonez, M.L., Sánchez, G.I., **Herrera de M.** **1987**. Uso de la técnica inmuno radiométrica (IRMA) en *Anopheles* de Colombia para la identificación de esporozoitos de *Plasmodium*. Colombia Médica, 18:2-6.
3. Herrera, S. y **Herrera de M.** **1987**. Inmunología de la Malaria: Estado actual. Colombia Médica, 18(1):28-35.
4. Carvajal, H., **Herrera de M.A.**, Quintero, J., Alzate, A. y Herrera, S., **1989**. *Anopheles neivai*: a vector of malaria in the Pacific lowlands of Colombia. Transactions of the Royal Society of Tropical Medicine and Hygiene, 83:609.
5. **Herrera de M.**, y Herrera, S., **1989**. Producción del Factor de Necrosis Tumoral en la malaria aguda. Colombia Médica, 20(4):142-146.
6. Perlaza, B.L., **Herrera, M.A.**, Villegas, A., Carrasquilla, G., Herrera, S. **1990**. Antibody-independent inhibition of *Plasmodium falciparum* *in vitro* cultures. J. Clin. Microbiol. 28(6):1172-1176.
7. Herrera, S., **Herrera, M.A.**, Perlaza, B.L., Burki, Y., Caspers, P., Dobeli, H., Rotmann, D., and Certa, U. **1990**. Immunization of *Aotus* monkeys with *Plasmodium falciparum* blood-stage recombinant proteins. Proc. Natl. Acad. Sci, 87:4017-4021.
8. Herrera, S., Perlaza, B.L., Sánchez, C.A., and **Herrera, M.A.** **1990**. Malaria crisis activity in sera from individuals of different ethnic groups of Colombia. Immunology letters, 25(1):251-253.
9. **Herrera, M.A.**, Rosero, F., Herrera, S., Caspers, P., Rotmann, D. Sinigaglia, F., Certa, U. **1991**. Protection against malaria in *Aotus* monkeys immunized with a recombinant blood-stage antigen fused to a universal T-cell epitope: Correlation of serum gamma interferon levels with protection. Infection and Immunity, 60(1):154-158.
10. Herrera, S., **Herrera, M.A.**, Clavijo, C., Corredor, A. and Certa, U. **1991**. Conserved polypeptides of *Plasmodium falciparum* as malaria vaccine candidates?. Acta Leidensia, 60(1):107-110.
11. Snewin, V., **Herrera, M.A.**, Sánchez, G., Scherf, A., Langsley, G. and Herrera, S. **1991**. Polymorphism of the alleles of the merozoite surface antigens MSA 1 and MSA-2 in *Plasmodium falciparum* wild isolates from Colombia Mol. Biomed. Parasitol, 49:265-276.
12. Herrera, J.A., **Herrera, M.A.**, Herrera, S., Hurtado, H. **1992**. Stress and lamblasis in patients with respiratory allergic disease. Stress Medicine. 8:105-110.

13. Herrera, S., **Herrera, M.A.**, Corredor, A., Rosero, F., Clavijo, C. and Guerrero, R. **1992**. Failure of a synthetic vaccine to protect *Aotus lemurinus* against asexual blood stages of *Plasmodium falciparum*. Am. J. Trop. Med. Hyg, 47(5):682-690.
14. Herrera, S., **Herrera, M.A.**, Certa, U., Corredor, A., Guerrero, R., **1992**. Efficiency of human *Plasmodium falciparum* malaria vaccine candidates in *Aotus lemurinus* monkeys. Mem. Inst. Oswaldo Cruz, 87(3):423-428.
15. Herrera, S., Escobar, P., De Plata, C., Avila, G.I., Corradin, G. and **Herrera, M.A.** **1992**. Human recognition of T cell epitopes on the *Plasmodium vivax* Circumsporozoite protein. The Journal of Immunology, 148:3986-3990.
16. Herrera, S., Rudin, W., **Herrera, M.**, Clavijo, P., Mancilla, L., De Plata, C., Matile, H., and Certa, U. **1993**. A conserved region of the MSP-1 surface protein of *Plasmodium falciparum* contains a recognition sequence for erythrocyte spectrin. The EMBO Journal, 12(4):1607-1614.
17. Salas, M.L., Romero, J.F., Solarte, Y., Olano, V., **Herrera, M.A.** and Herrera, S. **1994**. Development of sporogonic cycle of *Plasmodium vivax* in experimentally infected *Anopheles albimanus* mosquitoes. Mem. Inst. Oswaldo Cruz, 89:115-119.
18. Terrientes, Z., Kramer, K., **Herrera, M.A.**, Chang, S.P. **1994**. Naturally Acquired Antibodies against the Mayor Merozoite Surface Coat Protein (MSP-1) of *Plasmodium falciparum* Acquired by residents in an Endemic Area of Colombia. Mem. Inst. Oswaldo Cruz, 89:55-61.
19. **Herrera, A.M.**, De Plata C., González, J.M., Corradin, G. and Herrera, S. **1994**. Immunogenicity of Multiple Antigen peptides containing *Plasmodium vivax* CS epitopes in Balb/c mice. Mem. Inst. Oswaldo Cruz, 89(2):71-76.
20. Lopez, J.A., Roggero, M.A. Doumbo, O., González, J.M., Tolle, R., Koita, O., **Arévalo-Herrera, M.**, Herrera, S. and Corradin, G. **1996**. Recognition of synthetic 104-mer and 102-mer peptides corresponding to N- and C-terminal non repeat regions of the *Plasmodium falciparum* circumsporozoite protein by sera from human donors. Am. Trop. J. Med. Hyg, 55:424- 429.
21. Lopez, J.A., Gonzalez, J.M., Tolle, R., Renggli, J., Eberl, G., Betschard, B., Bujard, H., Doumbo, O., **Arévalo, M.**, Herrera, S., Corradin, G., Roggero, M.A. **1996**. Immunogenicity of synthetic peptides corresponding to the non-repeat regions of the *Plasmodium falciparum* circumsporozoite protein. Vaccines (Cold Spring Harbor) 96:255-260.
22. Herrera, S., De Plata, C., González, J.M., Perlaza, B.L., Bettens, F., Corradin, G. and **Arévalo-Herrera, M.** **1997**. Antigenicity and immunogenicity of multiple antigen peptides (MAP) containing *Plasmodium vivax* CS epitopes in *Aotus* Monkeys. Parasite Immunology, 19:161-170.
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25. López, J.A., González, J.M., Kettner, A., **Arévalo-Herrera, M.**, Herrera, S., Corradin, G. and Roggero, M. **1997**. Synthetic polypeptides corresponding to the non-repeat regions

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39. **Arévalo-Herrera, M.**, Valencia, A.Z., Vergara, J., Bonelo, A., Fleischhauer, F., González J.M., Restrepo J.C., López, J.A., Valmori, D., Corradin, G. and Herrera, S. **2002**. Identification of HLA-A2 restricted CD8⁺ T-lymphocyte responses to *Plasmodium vivax* Circumsporozoite protein in individuals naturally exposed to malaria. *Parasite Immunology*, 24:161-169.
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Conferencia: La contribución española en Malaria y los esfuerzos para la eliminación

Madrid, 25 de abril de 2012

MANUALES PUBLICADOS: GOOD LABORATORY PRACTICE INTERNATIONAL (www.who.int) (PARTICIPACION)

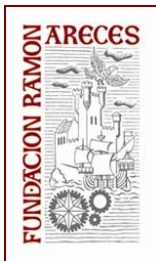
- Good Laboratory Practice (GLP) trainee manual.
- Non-clinical safety testing.
- Quality Standards in Basic Biomedical Research.
- Handbook non-clinical safety testing.

CURSOS OFRECIDOS:

- GLP Training of Trainers Workshop, (WHO), April 23 –27, **2001**. Nairobi, Kenia.
- GLP Training (WHO), October 7- 11, **2002**. Manaus, Brasil.
- GLP Training of Trainers Workshop (WHO), November 30 – December 6, **2003**. New Delhi, India.
- GLP Training (WHO), March, 14-17, **2005**. Manaus, Brasil.
- Refresher course for Good Laboratory Practice Trainers (WHO), August 7-12, **2005**. Accra, Ghana.
- The Non- Clinical Safety Testing Training Workshop. January 24-27, **2006**. Cali, Colombia
- GLP Training (WHO), September, 13-15, **2007**. Ciudad de Panama, Panama.
- WHO/TDR Good Laboratory Practice (GLP) Training Workshop Malaria Vaccine and Drug Development Center (MVDC) March 5-7, **2008**. Cali, Colombia

CONSULTORIA CIENTÍFICA

- 2003 – 2006 Advisory Committee Meeting, Programa GLP TDR/WHO. Ginebra, Suiza
- 2004- 2007 WHO Malaria Vaccine Advisory Committee (MALVAC), IVR/WHO, Ginebra, Suiza
- 2006 al presente Coordinadora de la Oficina Regional de Buenas Practicas de Laboratorio para America Latina Programa TDR/WHO, Cali, Colombia
- 2007 al presente. Miembro del Consorcio de *P. vivax* programa CELLEX, Barcelona, España
- 2008 Consultora científica del grupo MalERA, Programa para Erradicación de la Malaria, CRESIB, Barcelona España



Conferencia: La contribución española en Malaria y los esfuerzos para la eliminación

Madrid, 25 de abril de 2012

PREMIOS

- International award of Neuroepidemiology Bruce S. Schoenberg. Estudio de Correlation of Pacific Espactic
- Paraparecia and the HTLV-1 in Colombia. 1989.
- International award Alphonse Laveran. Human reconigtion on Y cell epitopes of *P. vivax* CS protein. 1991.
- COLCIENCIAS award to one of the first research groups of Colombia. 1991.
- National award of Psychology. Stress and lamblasis in patients with respiratory allergic disease. Congreso Nacional de Psicología. 1993
- Scientific Merit Award by Cámara Junior. 1994.
- Member of Advisory Committee on Malaria Vaccines (IVR/WHO). 2003.
- Emeritus Professor, Universidad del Valle. Cali, Colombia. 2005.
- Member of Advisory Committee on Malaria Erradication. MalERA (CRESIB) 2008.

IDIOMAS

Español, Ingles y Frances