

CURRICULUM VITAE  
**Blanca I. Restrepo, Ph.D. in Microbiology**

Assistant Professor of Epidemiology  
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**Updated October 2006**

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#### **Personal Data**

- Telephone 956-882-5172 (work); 956-279-3841 (mobile)
- E-mail: [blancos@rgv.rr.com](mailto:blancos@rgv.rr.com), Blanca.I.Restrepo@utb.edu
- Languages: Spanish and English (100%)

#### **Education**

- 1983-1986: **B.S. in Medical Technology** Colegio Mayor de Antioquia , Medellín, Colombia
- 1988-1994: **Ph.D. in Microbiology**, Department of Microbiology, University of Texas Health Science Center at San Antonio (UTHSCSA), San Antonio, TX.

#### **Employment**

- 1986-1987: **Social Service Year on Research:**
  - Corporación para Investigaciones Biológicas, CIB., Division of Medical Mycology, Medellín, Colombia
  - Audie L. Murphy Veterans Administration Hospital, San Antonio, TX.
- 1994-1997: **Post-doctoral fellow**, Department of Microbiology, Dr. Judy M. Teale's laboratory
- 1997-2001: **Chief, Molecular Parasitology Group**, Corporación para Investigaciones Biológicas, CIB, Medellín, Colombia
- 2002-2003: **Post-doctoral fellow**, University of Texas Health Science Center Houston-School of Public Health (UT-SPH), Brownsville Campus
- 2003-present: **Assistant Professor of Epidemiology, NTR UT-SPH Brownsville Campus**

#### **Published peer-reviewed manuscripts**

1. **Restrepo, B.I.**, McEwen, J.G., Salazar, M.E. and A. Restrepo. (1986) Morphological development of the conidia produced by *P. brasiliensis* mycelial form. Journal of Medical and Veterinary Mycology. 24: 337-339
2. McEwen, J.G., **Restrepo, B.I.** Salazar, M.E. and A. Restrepo (1987) Nuclear staining of *P. brasiliensis* conidia. Journal of Medical and Veterinary Mycology. 25:343-345
3. **Restrepo, B.I.**, Ahrens, J. and J.R. Graybill (1989). Efficacy of SCH39304 in murine cryptococcosis. Antimicrobial Agents and Chemotherapy 33:1242-1246
4. **Restrepo, B.I.** and Barbour, A.G. (1989) Cloning of the 18S and 25S rDNAs from the pathogenic fungus *Cryptococcus neoformans*. Journal of Bacteriology. 171:5596-5600
5. Burman, N., Bergstrom, S., **Restrepo, B.I.** and A.G. Barbour. (1990). The variable antigens Vmp7 and Vmp21 of the relapsing fever bacterium *Borrelia hermsii* are structurally analogous to the VSG proteins of the African trypanosome. Molecular Microbiology. 4:1715-1726

6. **Restrepo**, B.I., Carter, C.J., Kitten, Infante, D. and A.G. Barbour. (1992) Subtelomeric expression regions of *Borrelia hermsii* linear plasmids are highly polymorphic. Molecular Microbiology. 6(22):3299-3311
7. Wilske, B., Barbour, A.G., Bergstrom, S., Burman, N., **Restrepo**, B.I., Rosa, P.A., Schwan, T., Soutschek, E. and R. Wallich. (1992) Antigenic variation and strain heterogeneity in *Borrelia* spp. Research in Microbiology 143:583-96
8. **Restrepo**, B.I., Carter, C., and Barbour, A.G. (1994) Activation of a *vmp* pseudogene in *Borrelia hermsii*: an alternate mechanism of antigenic variation during relapsing fever. Molecular Microbiology. 13:287-299.
9. **Restrepo**, B.I. and Barbour, A.G. (1994) Antigen diversity in the bacterium *B. hermsii* through "somatic" mutations in rearranged *vmp* genes. Cell 78:867-876.
10. Hinnebusch, B.J., Barbour, A.G., **Restrepo**, B.I. and Schwan T.G. (1998) Population structure of the relapsing fever spirochete *Borrelia hermsii* as indicated by polymorphism of two multigene families that encode immunogenic outer surface lipoproteins. Infection and Immunity 66:432-440
11. **Restrepo**, BI., Llaguno, P., Sandoval, M.A., Enciso, J.A. and Teale, J.M. (1998) Analysis of immune lesions in neurocysticercosis patients: Central nervous system response to helminth appears Th-1 instead of Th2. Journal of Neuroimmunology 89:64-72
12. Cardona, AE, **Restrepo** BI, Jaramillo JM, Teale JM. (1999) Development of an animal model for neurocysticercosis: Immune response in the central nervous system is characterized by a predominance of  $\gamma\delta$  T cells. Journal of Immunology. 162:995-1002
13. **Restrepo** BI, Obregón-Henao A, Mesa M, Gil DL, Ortiz BL, Mejía JS, Villota GE, Sanzón AF, Teale JM. (2000) Characterization of the carbohydrate components of *Taenia solium* metacestode glycoprotein antigens. International Journal for Parasitology. 30:689-696
14. Obregón-Henao, A, Gil, DL, Sanzón F, Gómez DI, Teale JM, **Restrepo** BI. (2001) The role of N-linked carbohydrates in the antigenicity of *Taenia solium* metacestode glycoproteins of 12, 16 and 18 kilodaltons. Molecular and Biochemical Parasitology. 114:209-215
15. **Restrepo** BI, Alvarez JI, Castaño JA, Arias LF, Restrepo M, Colegial C, Teale JM. (2001) Brain granulomas in neurocysticercosis patients are associated with a Th1 and Th2 profile. Infection and Immunity. 69:4554-60
16. **Restrepo** BI, Aguilar, MI, Melby PC, Teale JM. (2001) Analysis of the peripheral immune response in patients with neurocysticercosis: Evidence for T cell reactivity to parasite glycoprotein and vesicular fluid antigens. American Journal of Tropical Medicine and Hygiene. 65:366-70
17. Melby, PC, Tabares A, **Restrepo** BI, Cardona AE, McGuff, HS, Teale JM. (2001) *Leishmania donovani*: Evolution and architecture of the splenic cellular immune response related to control of infection. Experimental Parasitology. 99:17-25
18. Sanzón F, Osorio AM, Morales JP, Isaza R, Cardona E, Moncayo LC, Villota GE, Holguín J, Zapata OT, Palacio CA, Arbeláez MP, Gil DL, Gómez DI, **Restrepo** BI. (2002) Serology for neurocysticercosis in mentally-altered individuals. Tropical Medicine and International Health 7:532-8.
19. Alvarez JI, Castaño CA, Colegial, C, Restrepo M, Trujillo J, Teale JM, **Restrepo** BI. (2002) The human nervous tissue in proximity to granulomatous lesions induced by *Taenia solium* metacestodes displays an active response. Journal of Neuroimmunology 127:139-144
20. Alvarez JI, Londoño DP, Alvarez AL, Trujillo J, Jaramillo MM, **Restrepo** BI. (2002) Granuloma formation and parasite disintegration in porcine cysticercosis: Comparison to human neurocysticercosis. Journal of Comparative Pathology 127:186-193.

21. Londoño DP, Alvarez JI, Trujillo J, Jaramillo MM, **Restrepo BI**. (2002) The inflammatory cell infiltrates in porcine cysticercosis: Immunohistochemical analysis during various stages of infection. Veterinary Parasitology 109:249-259.
22. Haslam SM, **Restrepo BI**, Obregón-Henao A, Teale JM, Morris HR, Dell A. (2003) Structural characterization of the N-linked glycans from *Taenia solium* metacestodes. Molecular and Biochemical Parasitology 126:103-7
23. Villota GE, Gomez DI, Volcy M, Franco AF, Cardona EA, Isaza R, Sanzón F, Teale JM, **Restrepo BI**. (2003) Similar diagnostic performance for neurocysticercosis using three glycoprotein preparations from *Taenia solium* metacestodes. American Journal for Tropical Medicine and Hygiene; 68:276-80.
24. Obregón-Henao A, Londoño, DP, Gómez DI, Trujillo J, Teale JM, **Restrepo BI**. (2003) In situ detection of the antigenic glycoproteins and other glycoconjugates in *Taenia solium* metacestodes. Journal of Parasitology; 89:726-732.
25. Mirza S, **Restrepo BI**, McCormick JB, Fisher-Hoch SP. (2003) Diagnosis of tuberculous lymphadenitis using a polymerase chain reaction on peripheral blood mononuclear cells. American Journal for Tropical Medicine and Hygiene; 69:461-5.
26. Perez AP, **Restrepo BI**, Brown HS. (2006) The association between tuberculosis and diabetes in South Texas. American Journal for Tropical Medicine and Hygiene; 74:604-611.
27. Dai Q, **Restrepo BI**, Porcella SF, Raffel SJ, Schwan TB, and Barbour AG. (2006) Antigenic variation by *Borrelia hermsii* occurs through recombination between extragenic repetitive elements on linear plasmids. Molecular Microbiology; 60:1329-1343.
28. **Restrepo BI**, Gomez DI, Shipley, G, McCormick JB, Fisher-Hoch SP. (2006) Selective enrichment and detection of mycobacterial DNA in paucibacillary specimens. Journal of Microbiological Methods; 67:220-229.
29. **Restrepo BI**, Fisher-Hoch SP, Crespo JG, Whitney E, Perez AP, Smith B, McCormick JB for the Nuevo Santander Tuberculosis Trackers. (2006) Impact of the Type 2 diabetes epidemic on tuberculosis in people of Mexican descent. Epidemiology and Infection (epub ahead of print, July 25, p 1-9)
30. Barbour AG, Dai Q, **Restrepo BI**, Stoenner, HG, Frank SA. Pathogen escape from host immunity by a genome program for antigenic variation. Proc Natl Acad Sci USA. *In press*.

### Invited Reviews

1. Barbour, AG., **Restrepo, B.I.** (2000) Antigenic variation in vector-borne pathogens: a common strategy. Emerging Infectious Diseases 6:449-457
2. **Restrepo BI** (2004) Nuevas herramientas para la detección de tuberculosis latente. BIOMÉDICA 24(Supl):202-11

### Contribution to Reports

- Restrepo, BI**, Fisher-Hoch SF, McCormick JB. Tuberculosis. In: The health and health service systems of Texans on the Texas-Mexico Border: Public Policy Implications. The University of Texas-Houston, School of Public Health. November 2002. p10-11
- Restrepo B PhD**, Fisher-Hoch S MD, McCormick JB MD Multi Drug Resistant Tuberculosis Along the US Texas-Mexico Border. Coastal Bend Medicine Vol. 43,4:11-16 2003

### Manuscripts submitted or to be submitted

Fisher-Hoch SP, Whitney E, Crespo JG, Perez AP, Smith B, McCormick JB, **Restrepo BI** for the Nuevo Santander Tuberculosis Trackers. Multi-drug resistance in tuberculosis driven by Type 2 diabetes (*submitted*).

### Book Chapters

Botero O, Soto B, **Restrepo, BI**. Neurocysticercosis in: Neurocirugía para Médicos Generales. Ed. Carlos E. Navarro. Editorial Universidad de Antioquia. Medellín, 2006

### Invited Speaker

1. **Restrepo, B.I.** (1991) Gene conversion of variable antigen genes in relapsing fever *Borrelia* spp. Symposium on Molecular Biology of Spirochetes, Annecy, France
2. **Restrepo, B.I.**, Carter, C., and Barbour, A.G. (1994) Activation of a *vmp* pseudogene in *Borrelia hermsii*: an alternate mechanism of antigenic variation during relapsing fever. Gordon Research Conference on Molecular Biology of Spirochetes. Ventura, CA. Jan. 2-7, 1994.
3. **Restrepo, B.I.** (1994) Antigenic variation of the relapsing fever spirochete *Borrelia hermsii*. Prokaryotic Seminar Series at the University of Pennsylvania. Pennsylvania, Philadelphia. Feb. 4, 1994
4. **Restrepo, B.I.** (1995) Antigenic variation of the relapsing fever spirochete *Borrelia hermsii*. Gordon Research Conference on Microbial Adhesion and signaling. Newport, RI. June 25-30, 1995 (Abstract nor invitation available)
5. **Restrepo, B.I.** (1997) Desarrollo de un método diagnóstico para la neurocisticercosis utilizando tecnología de AND recombinante. Asociación Colombiana de Medicina Interna- Capítulo Antioquia y Chocó. Rionegro, November 21.
6. **Restrepo, B.I.** (1999) Neurocysticercosis: neuroimmunology and glycoprotein antigens. Department of Neurosciences Seminar Series, New Jersey Medical and Dental School, Newark, U.S.A. December 6, 1999
7. **Restrepo, BI.** (2000) Neuroimmunology studies of neurocysticercosis. XVth International Congress for Tropical Medicine and Malaria. Cartagena, Colombia. Agosto 20-25
8. **Restrepo, BI.** (2000) Cisticercosis. Simposio Internacional de Zoonosis. Universidad de Córdoba. Montería, Colombia May 4-5
9. **Restrepo, B.I.** (2000) Avances recientes en la relación hospedero-parásito de la neurocisticercosis. Tópicos Selectos en Infectología-Universidad de Antioquia, Medellín, September 28
10. **Restrepo, BI** (2002) Detección temprana de tuberculosis en la comunidad. Simposio Binacional de Tuberculosis- Tamaulipas-Méjico. Matamoros, Mexico. March 26.
11. **Restrepo, B.I.** (2003) “Real-time, quantitative polymerase chain reaction: applications for tuberculosis research and diagnosis”. Seminar prior to the IV Congreso Internacional del Colegio Nacional de Bacteriólogos CNB, Medellín, Colombia. October 30, 2003
12. **Restrepo, B.I.** (2003) “Cysticercosis-lunch with the professor”. IV Congreso Internacional del Colegio Nacional de Bacteriólogos CNB, Medellín, Colombia. November 1, 2003
13. **Restrepo, B.I.** (2003) “New diagnostic methods for tuberculosis”-Plenary Session, and “Cysticercosis-lunch with the professor”. IV Congreso Internacional del Colegio Nacional de Bacteriólogos CNB, Medellín, Colombia. November 2, 2003

14. **Restrepo**, B.I. (2004) "Summary of Activities 2003-2004". 2nd Annual Consortium Meeting. Emerging MDR-TB across the US-Mexico border, Reynosa, Mexico. November 5, 2004
15. **Restrepo**, B.I. (2005) "PCR-based technologies for detection of *M. tuberculosis*" Texas State Society of American Medical Technologists. South Padre Island, February 4-5, 2005
16. **Restrepo**, B.I. (2005) "Surprises from binational surveillance data for MDR tuberculosis across the lower Rio Grande River". 2005 Binational Conference on Surveillance and Epidemiology. South Padre Island, TX. August 16-19, 2005
17. **Restrepo**, B.I. (2005) "Review of recent studies: Surveillance data for MDR tuberculosis across the Lower Rio Grande River". Department of State Health Services, Infectious Disease Unit, Surveillance and Epidemiology Branch, Medical Records Conference. Austin, TX Sept 29-30, 2005
18. **Restrepo**, BI (2005) "Impact of diabetes on the spread of tuberculosis " Seminar Series sponsored by the Howard Hughes Medical Institute (HHMI). University of Texas PANAMERICAN, Edinburg, Texas. December 1, 2005.  
**Note:** This presentation led to interview: The Panamerican. Student Newsletter from the University of Texas Panamerican (UTPA). Scientists research link between TB and diabetes. January 26, 2006, Pg 5 (Claudette Gonzalez, UTPA student, interviews Dr. Blanca I Restrepo).
19. **Restrepo**, BI (2006) "How does diabetes complicate the presentation of tuberculosis?" Molecular Basis of Infectious Diseases Symposium. Univ Texas Health Sci Ctr Houston, Medical School (invited by Dr. Pablo Okhuysen and Lisa Armitage) May 5, 2006
20. **Restrepo**, BI (2006) "Tuberculosis among patients with diabetes co-morbidity" UTSPH-El Paso Seminar Series. (invited by Dr. Victor Cárdenas), March 24, 2006 (Tuberculosis World Day)

#### **Abstracts and presentations in Scientific meetings**

1. **Restrepo**, B.I. and Restrepo, A.(1986) Morphogenesis of the conidia produced by *P. brasiliensis* mycelial form. International Colloquium on Paracoccidioidomycosis. Medellín, Colombia (poster) (no documentation available)
2. **Restrepo**, B.I., Ahrens, J. and J.R. Graybill (1988). Efficacy of SCH39304 in murine cryptococcosis. Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC), Los Angeles, CA (poster) (no documentation available)
3. **Restrepo**, B.I. and Barbour, A.G. (1989) Cloning of the 18S and 25S rDNAs from the pathogenic fungus *Cryptococcus neoformans*. Abstracts of the Annual Meeting of the American Society for Microbiology. New Orleans, Louisiana (Poster) (no documentation available)
4. **Restrepo**, B.I. and A. Sadziene. (1991). A Lyme disease and relapsing fever mouse model: use of the polymerase chain reaction for the detection of *Borrelia burgdorferi* and *Borrelia hermsii* in blood. Abstracts of the Annual Meeting of the American Society for Microbiology. Los Angeles, CA (Poster) (no documentation available)
5. **Restrepo**, B.I., Llaguno, P., Sandoval M.A., Enciso, J.A. and Teale, J.M. (1995) Characterization of the inflammatory response in the human brain infected by the cysticercus of the flatworm *Taenia solium*. American Society for Tropical Medicine and Hygiene 44th annual meeting. San Antonio, TX. November 17-21. (Oral presentation) The American Journal of Tropical Medicine and Hygiene. 53: 108

6. **Restrepo**, B.I., Llaguno, P., Sandoval M.A., Enciso, J.A. and Teale, J.M. (1996) Characterization of the inflammatory response in the human brain infected by the cysticercus of the flatworm *Taenia solium*. Texas Regional Immunology Conference. November 15-17. San Antonio, Texas (Oral presentation)
7. Llaguno, P., Sandoval, MA., **Restrepo**, BI., Teale JM y Enciso JA. (1995) Análisis de la respuesta humoral contra el cisticerco utilizando sueros y líquido cefalorraquídeo de pacientes con neurocisticercosis. XX Congreso Anual de la Asociación Mexicana de Infectología y Microbiología Clínica. Noviembre 8-11. (Poster) Mérida, México. Enfermedades Infecciosas y Microbiología. 15:333 (no documentation available)
8. Enciso, JA, Llaguno P, Sandoval M, **Restrepo** BI, Teale JM, Muñoz O. (1997) Identification of immunodominant antigens of *Cysticercus cellulosae* by sera and cerebral spinal fluid from patients with neurocysticercosis. American Society for Tropical Medicine and Hygiene 46th annual meeting held in Lake Buena Vista, FL. December 7-11. (Oral presentation) Supplement to The American Journal of Tropical Medicine and Hygiene. 57(3): 122.
9. **Restrepo**, B.I., Llaguno, P., Sandoval M.A., Enciso, J.A. and Teale, J.M. (1997) Caracterización de la respuesta inflamatoria en el sistema nervioso central humano infectado por el cisticerco de la *Taenia solium*. IX Congreso Colombiano de Parasitología y Medicina Tropical. Noviembre 5-8. (Oral presentation) Medellín, Colombia. Biomédica. 17:184
10. Jaramillo, J.M., **Restrepo**, B.I., Llaguno, P., Enciso, J.A. and Teale, J.M. (1997) Caracterización de la respuesta humoral periférica in situ en pacientes con neurocisticercosis. IX Congreso Colombiano de Parasitología y Medicina Tropical. Noviembre 5-8. (Oral presentation) Medellín, Colombia. Biomédica. 17:185
11. **Restrepo** BI, Gil DL, Mesa M, Ortiz BL, Mejía JS, Teale JM. The nature of antigenic epitopes with potential diagnostic use in human neurocysticercosis. American Society for Tropical Medicine and Hygiene 47th annual meeting. San Juan de Puerto Rico, Puerto Rico. October 18-22, 1998. (Supplement to the Am J Trop Med Hyg. 59(3):297)
12. Aguilar, MI, **Restrepo** BI, Teale JM. (1998) Analysis of cellular immunity by in vitro proliferation of mononuclear cells in neurocysticercosis patients. American Society for Tropical Medicine and Hygiene 47th annual meeting. San Juan de Puerto Rico, Puerto Rico. October 18-22, 1998. (Supplement to the Am J Trop Med Hyg. 59(3):357)
13. Jaramillo, J.M., **Restrepo**, B.I., Llaguno, P., Enciso, J.A. and Teale, J.M. (1998) Characterization of the peripheral and in situ humoral response in patients with neurocysticercosis. American Society for Tropical Medicine and Hygiene 47th annual meeting. San Juan de Puerto Rico, Puerto Rico. October 18-22, 1998. (Supplement to the Am J Trop Med Hyg. 59(3):358)
14. Aguilar, MI, **Restrepo** BI, Teale JM. (1998) Análisis de la inmunidad celular por proliferación in vitro de células mononucleares en pacientes con neurocisticercosis. Primer encuentro nacional de investigación en enfermedades infecciosas. Rionegro, Antioquia (Colombia). June 1998.
15. **Restrepo** BI, Gil DL, Mesa M, Ortiz BL, Mejía JS, Teale JM (1998) Caracterización de antígenos con potencial diagnóstico para neurocisticercosis humana. Primer encuentro nacional de investigación en enfermedades infecciosas. Rionegro, Antioquia (Colombia). June 1998
16. Mesa M, Gil DL, Mejía JS, Ortiz BL, Teale JM, **Restrepo** BI. (1998) Caracterización Bioquímica e inmunológica de antígenos con potencial diagnóstico para neurocisticercosis. Cuarto Congreso. Corporación para Investigaciones Biológicas, Medellín, December 1998

17. Alvarez JI, Castaño JA, Arias LF, Restrepo M, Restrepo, BI. Inmunología de la neurocisticercosis humana. Cuarto Congreso. Corporación para Investigaciones Biológicas, Medellín, diciembre de 1998
18. Alvarez JI, Castaño JA, Arias LF, Restrepo M, Colegial C, Cardona J, Teale JM, **Restrepo**, BI. Characterization of the Granuloma surrounding human brain metacestodes from *T. solium*. Third Woods Hole Immunoparasitology Meeting. Woods Hole, MA-EE.UU. Mayo 2-5, 1999 (Oral Presentation)
19. Cardona A, **Restrepo** BI, Jaramillo JM, Teale JM. An animal model for neurocysticercosis (NCC) and the immune response that occurs in the central nervous system (CNS). Third Woods Hole Immunoparasitology Meeting. Woods Hole, MA-EE.UU. Mayo 2-5, 1999 (Oral Presentation)
20. **Restrepo** BI, Alvarez JI, Castaño JA, Arias LF, Restrepo M, Teale JM. (1999) Neuroimmunological Characterization of the Brain Lesions from Neurocysticercosis Patients. 99<sup>th</sup> General Meeting of the American Society for Microbiology. May 30-June 3.
21. Obregón A, Gil DL, Mejía JS, Mesa M, Ortiz BL, Teale JM, **Restrepo** BI. (1999) The role of carbohydrates in the antigenicity of glycoproteins from *T. solium* metacestodes. 48th Annual Meeting of the American Society of Tropical Medicine and Hygiene. Washington, EE.UU. November 28 (Oral Presentation)
22. Alvarez JI, Castaño JA, Arias LF, Restrepo M, Cardona O, Trujillo J, Colegial C, Teale JM, **Restrepo** BI. (1999) The cytokine profile associated with granuloma formation in neurocysticercosis brain lesions. 48th Annual Meeting of the American Society of Tropical Medicine and Hygiene. Washington, EE.UU. November 28 (Oral Presentation)
23. Alvarez JI, Castaño JA, Arias LF, Restrepo M, Trujillo J, Colegial C, Teale JM, **Restrepo**, BI. (1999) La respuesta inmune en el granuloma que rodea metacéstodos de *Taenia solium* en cerebro humano se asocia con un patrón TH1/TH2. Quinto Congreso. Corporación para Investigaciones Biológicas, Medellín, December
24. Serna GJ, Cook M, Teale JM, **Restrepo** BI (1999) Clonación de genes de metacéstodos de *Taenia solium* con fines diagnósticos. Quinto Congreso. Corporación para Investigaciones Biológicas, Medellín, December
25. Alvarez AL, Trujillo J, Velez A, **Restrepo** BI (1999) La cisticercosis porcina: el modelo animal más cercano a la neurocisticercosis humana. Quinto Congreso. Corporación para Investigaciones Biológicas, Medellín, December
26. Alvarez, J.I., Teale, J.M., Castaño, C.A., Colegial, C., Arias, L.F., Restrepo, M., Trujillo, J., **Restrepo**, B.I. The nervous tissue plays an active role in the immune response induced by *Taenia solium* metacestodes. XVth International Congress for Tropical Medicine and Malaria. Cartagena, Colombia. Agosto 20-25, 2000 (Oral Presentation)
27. Obregón-Henao, A., Teale, J.M., Gil, D.L., Sanzón, F., **Restrepo**, B.I. The role of N-linked carbohydrates in the antigenicity of *Taenia solium* metacestode glycoproteins of 12, 16 and 18 kD. XVth International Congress for Tropical Medicine and Malaria. Cartagena, Colombia. Agosto 20-25, 2000 (Oral Presentation)
28. Alvarez, J.I., Alvarez AL., Trujillo J., **Restrepo**, B.I. The immune response against *Taenia solium* metacestodes: differences between human and porcine cysticercosis. 49th Annual Meeting of the American Society of Tropical Medicine and Hygiene (Oral Presentation). October 29-November 2, 2000
29. Obregón-Henao, A., Teale, J.M., Gil, D.L., Sanzón, F., **Restrepo**, B.I. The antigenic carbohydrates of *Taenia solium* metacestode glycoproteins. 49th Annual Meeting of the American Society of Tropical Medicine and Hygiene. Houston, Texas. October 29-November 2, 2000.(Poster)

30. Alvarez, J.I., Teale, J.M., Castaño, C.A., Colegial, C., Arias, L.F., Restrepo, M., Trujillo, J., **Restrepo**, B.I (2000) El tejido nervioso participa activamente en la respuesta inmune inducida por metacéstodos de la *Taenia. Solium*. II Encuentro Nacional de Investigación en Enfermedades Infecciosas. Medellín, June 15-17
31. Obregón-Henao, A., Teale, J.M., Gil, D.L., Sanzón, F., **Restrepo**, B.I (2000) El papel de los carbohidratos en la antigenicidad de las glicoproteínas del cisticerco de la *Taenia solium*. II Encuentro Nacional de Investigación en Enfermedades Infecciosas. Medellín, June 15-17.
32. Alvarez JI, Alvarez AL, Vélez A, Trujillo J, **Restrepo** BI (2000) La cisticercosis porcina: el modelo animal mas cercano a la neurocisticercosis humana. II Encuentro Nacional de Investigación en Enfermedades Infecciosas. Medellín, June 15-17.
33. Volcy M, Franco A, Robledo J, **Restrepo** BI, Uribe CS. Clinical picture of tuberculous meningitis in Medellín-Colombia. 53<sup>rd</sup> Annual Meeting of the American Academy of Neurology. May 5-11, 2001. Philadelphia, PA. (Poster)
34. Sanzón F, Osorio AM, Morales JP, Isaza R, Cardona E, Moncayo LC, Villota GE, Holguín J, Zapata OT, Palacio CA, Arbeláez MP, Gil DL, Gómez DI, **Restrepo** BI. Serology for neurocysticercosis in mentally-altered individuals. 50th Annual Meeting of the American Society of Tropical Medicine and Hygiene. Atlanta, GA. November 11, 2001 (Poster)
35. Alvarez, J.I., Teale, J.M., Castaño, C.A., Colegial, C., Arias, L.F., **Restrepo**, M., Trujillo, J., **Restrepo**, B.I. The human nervous tissue in proximity to granulomatous lesions induced by *Taenia solium* metacestodes displays an active response. 50th Annual Meeting of the American Society of Tropical Medicine and Hygiene. Atlanta, GA. November 11, 2001 (Poster)
36. **Restrepo** BI, AA Siddiqi, S Mirza, N Faridi, MH Rahbar, S Akhtar, SP Luby, JB McCormick, SP Fisher-Hoch. Risk of clinical tuberculosis among infected individuals previously identified by a single blood PCR test. Keystone Symposium “Tuberculosis: Integrating host and pathogen biology”. Taos, NM. January 25-30, 2003 (Poster)
37. **Restrepo** BI, SP Fisher-Hoch, JB McCormick, Smith B, López-Leal, F, Graviss E, Rendon A. and the Texas-Mexico TB consortium. Creation of an NIH-funded binational research consortium to study DR- and MDR-TB transmission between South Texas and northeast Mexico. 8<sup>th</sup> Annual International Union Against Tuberculosis and Lung Disease (IUTLD) NAR. Austin, Tx. February 26-28, 2004 (Poster)
38. Perez, A, **Restrepo** BI, Brown SH,. The strength of association between tuberculosis and diabetes in the Lower Rio Grande Valley (LRGV), TX. 8<sup>th</sup> Annual International Union Against Tuberculosis and Lung Disease (IUTLD) NAR. Austin, Tx. February 26-28, 2004 (Poster)
39. **Restrepo** BI, E Whitney, JG Crespo, , SP Fisher-Hoch, A Perez, B Smith, F López-Leal, JB McCormick and the NSTT members. Impact of the diabetes epidemic on MDR-TB. Keystone Symposium “Tuberculosis: Integrating host and pathogen biology”. Whistler, Canada. April 2005 (Poster)
- **Note:** Summary of the Keystone meeting on the Journal of Experimental Medicine (vol 201, p1693-7), highlighted our results.
40. **Restrepo** BI, E Whitney, JG Crespo, SP Fisher-Hoch, A Perez, B Smith, F López-Leal, JB McCormick and the NSTT members. Impact of the diabetes epidemic on MDR-TB. US-Japan Cooperative Meeting on Tuberculosis/Leprosy and Immunology, Washington, Seattle, July 27, 2005 (Poster by invitation).
41. **Restrepo** BI, E Whitney, JG Crespo, , SP Fisher-Hoch, A Perez, B Smith, F López-Leal, JB McCormick and the NSTT members. Impact of the diabetes epidemic on MDR-TB. 10<sup>th</sup>

Annual Conference, International Union Against Tuberculosis and Lung Disease, North American Region. Chicago. March 2-4, 2006 (Poster)

### Public Health Service

- 2003-present: Tuberculosis Binational Consortium Coordinator for NIAID grant: “Emerging MDR-TB across the US-Mexican border”
- 2003-present: Texas Tuberculosis Epidemiologic Studies consortium, member. Texas Department of Health, Austin, Texas
- 2005-present Invited Expert. Ten against TB. Technical Committee Meeting- Subregion Matamoros/Brownsville/Reynosa/McAllen/Harlingen. Initial meeting held at Matamoros, Mexico August 23, 2005
- 2002-present: **Tuberculosis Program Coordinator:** Oversee activities of the tuberculosis research program for the School of Public Health in Brownsville, and provide feedback to the regional tuberculosis public health programs in South Texas and Northeastern Mexico. Specific activities:
  - Improve prompt tuberculosis reporting to the local health departments by promoting communication between physicians and health officials.
  - Develop strategies for prompt detection of tuberculosis, including information on risk factors that are important in our region and should lead to the suspicion of tuberculosis, and multi-drug resistant tuberculosis.
  - Develop with our Mexican colleagues a plan to prioritize the profile of patients that should have a culture for tuberculosis detection
  - Improve communication between the health officials and the regional laboratories that process the specimens for tuberculosis detection
  - Perform visits to study sites and meet with officials at: Hidalgo County Health Dept, Edinburg, Texas; Department of State and Health Services, Region 11, Harlingen, Texas; Hospitals in the McAllen area where the most complicated tuberculosis patients are treated; Jurisdicciones Sanitarias 3 (Matamoros), 4 (Reynosa) and 5 (Nuevo Laredo), Mexico; Secretaría de Salud de Tamaulipas (Headquarters of the regional offices from Matamoros, Reynosa and Nuevo Laredo), Ciudad Victoria, Mexico.
- 2004-2005: **Training of Mexican colleagues,** Committee member. UTHSCH-SPH Brownsville. Design and carry out a training program of Mexican colleagues on laboratory methods for identification of *M. tuberculosis* and genetic typing. This should help control dissemination of tuberculosis in the northeastern border of Mexico, and the adjacent Texas border

### Internal Service

- 1991: Graduate Student Association Representative for the Department of Microbiology, UTHSCSA (documentation not available)
- 2002-present: Member of the Institucional Animal Care and Use Committee (IACUC), University of Texas at Brownsville and Texas Southmost College
- 2006-present UT-SPH Brownsville Alternate Representative for Faculty Council

### Academic Professional Service

- 1997: Participant in the “Cátedra de Biotecnología”, a group that meets once a month to analyze and suggest strategies to promote the development of Biotechnology in the department of Antioquia (Colombia). Centro de Ciencia y Tecnología de Antioquia. (documentation not available)
- 1997-2001: Grant reviewer: Instituto Nacional de Salud de Colombia (INS; Colombian equivalent to the Center for Disease Control of the United States), Comité de Investigación de la Universidad de Antioquia-CODI (program funding pilot grants for faculty from the University of Antioquia), Colombia
- 1998-2000: Academic coordinator, teacher, and member of the Doctoral Committee for the Ph.D. program “Doctorado en Ciencias Médicas”. An inter-institutional agreement between Universidad Pontificia Bolivariana, Instituto de Ciencias de la Salud, and the Corporación para Investigaciones Biológicas.
- 2001-2004: Grant reviewer for COLCIENCIAS (Agency which funds basic and clinical research in Colombia)
- 2002-2004: Manuscript reviewer for journal BIOMEDICA (peer-reviewed, MedLine-indexed Colombian journal focused on infectious diseases topics), Colombia
- 2003: Organization Committee- 1st Annual Consortium Meeting- Emerging MDR-TB across the US-Mexico border. Brownsville, November 14, 2003
- 2004: Organization Committee- 2<sup>nd</sup> Annual Consortium Meeting- Emerging MDR-TB across the US-Mexico border. Reynosa, Mexico, November 4-5, 2004
- 2004-present: Development of a patient-based database system. In association with Faculty at UT-SPH Brownsville and UT-PANAM and IBM.
- 2004-present: Scientific Committee of the journal BIOMÉDICA- by invitation
- 2005-2006: Grant reviewer for the Fundación para la Investigación del Banco de la Republica, Bogotá-Colombia
- 2006-present Reviewer for peer-reviewed journals Medical Science Monitor (International Medical Journal for Experimental and Clinical Research), Acta Tropica, Clinical Infectious Diseases
- 2006-2007 Scientific Committee member: Invited member. 65<sup>th</sup> Annual meeting of the United States-Mexico Border Health Association. South Padre Island, Texas, May 2007

### Memberships

- 1998-2001: Member of the American Society for Tropical Medicine and Hygiene (ASTMH)
- 2003-present: Graduate School of Biomedical Sciences (GSBS) faculty member, University of Texas Health Science Center-Houston (UTHSCH)
- 2003-present: Center for Infectious Diseases member, UTHSCH
- 2003-present: American Association for the Advancement of Science, member
- 2006-present American Society for Microbiology

### Community Service

- 2005-present **Invited Expert.** Heads-Up for Immunology Module (Special Curriculum Development Program to motivate middle school kids to think, enjoy and

ideally pursue a science career). Initial meeting held Brownsville, Texas November 17, 2005

- May, Nov 2006: **Invited “role model”** for the “Tu Salud si Cuenta” campaign. Sponsored by: UTHSC-H, Vallevisión, UTB-TSC, Cancer Information Service.
- October 2006 **Invited guest** for “Career Day” at Gonzalez Elementary School, McAllen Independent School District

## Teaching

- 1988-1990: Teaching assistant for Medical Microbiology Labs during Graduate School
  - 40 laboratory sessions, average student contact time: 2 hrs/lab
- 1988-1989: Teaching assistant for Dental Microbiology Labs during Graduate School
  - 10 laboratory sessions, average student contact time: 2 hrs/lab
- 1998-2000: Teaching for the Graduate program “Ph.D. in Medical Sciences” (Doctorado en Ciencias Médicas) In the following courses: Cellular Biology, Immunology, Molecular Biology, and Microbial Pathogenesis
- 1999-2000: Invited teacher by the Universidad de Antioquia for: Advanced immunology Course 1999, Ph.D. program; and Parasitology seminar on the Biology of Cestodes 2000, Masters program
- Spring 2003: Emerging Diseases in the Mexican-American Border PHB3498: Co-Instructor, and lecturer for the Molecular Biology Module. UTH-SPH Brownsville, MPH Program.
- Fall 2003: Guest Lecturer “Tropical Viruses and Parasitology” PH4715. Topic: *Taenia solium* and *saginata*. UTH-SPH Houston, MPH Program.
- Spring 2004: Emerging Diseases in the Mexican-American Border PHB3498: Primary instructor and lecturer for the Molecular Biology and Neurocysticercosis Modules. UTH-SPH Brownsville, MPH Program.
- Spring 2005: Emerging Diseases PHB3498: Primary instructor and lecturer for Molecular Biology-I and II, tuberculosis and Neurocysticercosis Modules. UTH-SPH Brownsville, MPH Program.  
Immunology PH4725: Co-instructor. UTH, MPH Program  
Guest Lecturer “Tuberculosis biology and detection”. Undergraduate Course for Medical Laboratory Technician Program. University of Texas at Brownsville, Brownsville, Texas.  
Guest Lecturer “Tuberculosis in the Lower Rio Grande Valley”. Undergraduate Course for undergraduate students. University of Texas PANAMERICAN, Edinburg, Texas.
- Fall 2005: Guest Lecturer “*Taenia solium* and *saginata*” PH2280 Public Health Microbiology I. UTH-SPH Houston, MPH Program.
- Spring 2006: Biological Basis of Emerging Diseases PHB2998/GS210023 3 credit hours: Primary instructor and lecturer for Molecular Biology-I and II, tuberculosis and Neurocysticercosis Modules. UTH-SPH Brownsville, MPH Program and Graduate School for Biomedical Sciences Ph.D. program

Immunology PH2290: Invited lecturer. “Resistance and Immunization to Infectious Diseases”. UTH, MPH Program

Guest Lecturer “Tuberculosis biology and detection”. Undergraduate Course for Medical Laboratory Technician Program. University of Texas at Brownsville, Brownsville, Texas.

- Summer 2006: Guest Lecturer. Heads-UP Teacher Summer Institute. Center for Health Promotion and Prevention Research, UTHSC-Houston
  - PCR Presentation and Demonstration
  - Tuberculosis 411
  - Lab Activity: Infection Detection Using Immunological Methods
- Fall 2006: Guest Lecturer “*Taenia solium* and *saginata*” PH2280 Public Health Microbiology I. UTH-SPH Houston, MPH Program.

### Student Advising

- **Ph.D. (committee member)**
  - 2003-present: Jaymie Estrella, Graduate School of Biomedical Sciences, UTHSCH
    - Recipient of NIH-minority Fellow-ship Award
- **M.Sc.**
  - 1996-1999: Juan M Jaramillo, Microbiología y Parasitología Clínica. Universidad Pontificia Bolivariana, Medellín-Colombia
  - 2004: Erin Whitney, MPH- UTHSCH-SPH program. Member of supervising committee
  - 2003-present: Martín Ramírez. MPH-UTHSCH-SPH-Brownsville program. Member of supervising committee
  - 2004-present: Claudia Rivera. MPH-UTHSCH-SPH-Brownsville program. Primary Advisor
  - 2005-present: Puja Dutta. MPH-UTHSCH-SPH-Brownsville Program. Co-advisor for supervising committee; practicum supervisor; thesis supervisor.
  - 2006-present: Andrea Bordt. MPH-UTUTHSCH-SPH program. Co-advisor for supervising committee; practicum supervisor; thesis supervisor.
- **Training of minority, undergraduate students in Texas.**
  - 2002-2004: Nielsa Robinette. Medical technician minor; Biochemistry Major. University of Texas at Brownsville (UTB)
  - 2003-2004: Leticia Armendariz. Biology. UTB
  - 2003-2004: Mary Mireles, B.Sc. in Biology student, UTB
  - Aug 2006-present: Luis Marquez, B.Sc. in Biology student, UTB
- **Summer student advisor**
  - Summer 2006: Matthew Gashore, Denise Fraga, Chris Mihealsik, University of Texas at Austin
  - Fall 2006: Andrea Bordt, MPH-UTSPH-Houston, Practicum and Thesis Advisor
  - Fall 2006: Puja Dutta, MPH-UTSPH-Brownsville, Practicum, Thesis Advisor and Committee member

### **Nominations and honors**

- May 1995: Honorable Mention for Leadership Award by the Women's Faculty Association at the University of Texas Health Science Center at San Antonio
- 1995: Stimulation to Investigators, Classified in the C category (third out of four categories), COLCIENCIAS
- 1997: Approved by COLCIENCIAS with the award "Investigator Repatriation" Awarded equivalent to US \$7,500 dollars for returning to Colombia
- August 1998: Travel Award to the Annual Meeting of the American Society for Tropical Medicine and Hygiene
- November 1998: Scholarship Award "Becas y Cultivos" at the Corporación para Investigaciones Biológicas. Award equivalent to US \$16,500 for support salary
- December 1998: Second place for the presentation: "Caracterización Bioquímica e inmunológica de antígenos con potencial diagnóstico para neurocisticercosis" Cuarto Congreso de la Corporación para Investigaciones Biológicas
- December 1999: Honorable mention for the presentation: "Clonación de genes de metacéstodos de *Taenia solium* con fines diagnósticos" Quinto Congreso de la Corporación para Investigaciones Biológicas
- June 2000: 2° place Basic Sciences Category: The nervous tissue participates actively in the immune response induced by *Taenia solium* cysticerci. II Encuentro Nacional Investigativo en Enfermedades Infecciosas. Rionegro-Antioquia (US equivalent \$1,000)
- June 2000: 2° place Basic Sciences Category: The role of carbohydrates in the antigenicity of *Taenia solium* metacestode glycoprotein antigens. II Encuentro Nacional Investigativo en Enfermedades Infecciosas. Rionegro-Antioquia. (US equivalent \$1,000)
- March 2003: Friends of Public Health Award, presented to the faculty of UTH-SPH Brownsville by the Texas Department of Health Region 11.
- September 2004: PRIME Grant Award for pilot project "Altered immune response in diabetics with tuberculosis, \$50,000 for two years. School of Public Health, UTHSCH-SPH
- February 2005 Faculty Incentive Award. School of Public Health, UTHSCH-SPH
- March 2005 Lump Sum Merit Award. School of Public Health, UTHSCH-SPH
- February 2006 Faculty Incentive Award. School of Public Health, UTHSCH-SPH
- September 2006: Junior Faculty Appreciation Luncheon. Invited Guest by Dr. Willerson, President, and Dr. Peter Davies, Vice-President of Research, UTHSCH

### **Current Research Support**

- **TITLE: CREATION OF AN HISPANIC HEALTH RESEARCH CENTER IN THE LOWER RIO GRANDE VALLEY.** Funding source: NIH- EXPORT; MD000170 020- National Center on Minority Health and Health Disparities (NCMHD). Total funding: \$7,500,000/5 years. Start date: February 1, 2003. Principal Investigator: Dr. Joseph McCormick. Dr. Restrepo's roles of in the project: Contribution to design and writing of grant, and execution, analysis and publication of data

- Co-investigator of Molecular core: (\$625,825/5 yrs; \$92,167/yr one) 23% effort. PI Dr. Susan P. Fisher-Hoch
  - *Overall aim:* Develop three Core Laboratories at the University of Texas School of Public Health at Brownsville to support the community health research programs proposed in the Export Grant. These include quantitative, real-time polymerase chain reaction, proteomics and microarrays.
- TITLE: ENHANCED SURVEILLANCE TO IDENTIFY MISSED OPPORTUNITIES FOR PREVENTION OF TUBERCULOSIS IN FOREIGN-BORN. Funding source: Center for Disease Control Task Order 9 # (\$30,822/2 years). Start date: June 2004. Selected for 6 month extension to enroll additional children. Dr. Restrepo's role in project: co-investigator (PI is Dr. Edward Gravis, Baylor College of Medicine, Houston)
- TITLE: RAPID CHARACTERIZATION OF MYCOBACTERIA AND DRUG RESISTANCE IN PAUCIBACILLARY TB. NIAID R21 AI064297. Total direct cost \$275,000/2 yr. Priority score: 140. Published final payline: 151. Start date June 15, 2006. Dr. Restrepo's role in project: PI
- TITLE: ALTERED EXPRESSION OF IMMUNE RESPONSE GENES IN TUBERCULOSIS PATIENTS WITH DIABETES. Pilot study within Translational Grant, NIAID. Total direct cost \$50,000/2 yr. Funding approved by Office of Research. UTHSC-Houston

#### **Previous Research Support (Last 2 years)**

- TITLE: CREATION OF AN HISPANIC HEALTH RESEARCH CENTER IN THE LOWER RIO GRANDE VALLEY.
  - Principal Investigator of Pilot Study: (\$55,000 direct costs/2 yrs) Early tuberculosis detection by high-throughput Q-PCR. 15% effort. NIH- EXPORT; MD000170 020
    - *Overall aim:* Design and validate a battery of real-time, quantitative PCR assays (Q-PCR) to study the dynamics of early *Mycobacterium tuberculosis* (MTB) infection, by detection of bacterial DNA in peripheral blood mononuclear cells (PBMCs).
  - Co-investigator of Pilot study: Diabetes and tuberculosis: The strength of their association and the economic impact in the Lower Rio Grande Valley (LRGV). (\$41,176 direct costs/1 year) 5% effort
    - *Overall aim:* Based on the testing hypothesis that diabetes contributes to the burden of TB in the Hispanic population from four Texan counties along the Mexican-American border, in this study we will: i) determine the degree of association of DB and TB among Hispanics in the LRGV, ii) determine the strength of the association between TB and its associated risk factors, and iii) estimate health production function that will identify relevant socio-economic indicators of TB and diabetes.
- TITLE: EMERGING MDR TUBERCULOSIS ACROSS THE US/MEXICO BORDER. Funding source: NIAID R21 A1056207. Start date: August 2003, 2 yrs. No cost extension or one year. Total funding: \$400,000/2 years (1 year extension granted). Dr. Restrepo's role in the project: Co-Principal Investigator and Project Coordinator 15% effort (PI is Dr. Joseph McCormick, UT-SPH-Brownsville)
- TITLE: ALTERED IMMUNITY IN DIABETICS WITH TUBERCULOSIS. Funding source: PRIME Grant, School of Public Health, UTHSCH (\$50,000/2 years). Start date: August 2004. Dr. Restrepo's role in project: PI

**Employees under my direct supervision**

- Elma Garza- Data collector (2002-2003)
- Christina Villareal- Lay Outreach worker (2003-2004)
- Ninfa Ortega- Data collector (2004-2005)
- Francisco Días, Data Operator II (2004-2005)
- Roberto Rivera, Data Entry Operator (2005-2006)
- Diana Gómez, Research Assistant I. (2003-present)
- Izelda Zarate- Lay Outreach worker (2004-present)
- Mary Mireles- Laboratory technician (2005-2006)
- Paula Pino- Laboratory technician (2005-present)
- José Adan Treviño- Data collector (2006)
- Adrian Salinas- Laboratory Technical Assistant (September 2006-present)

**Submitted Grants in 2006**

Date submitted	Funding Source	Type/#	Project Title	PI	Blanca's role	% effort	Award period (yrs)	Total direct \$ requested (k)	Total indirect \$ requested (k)	Outcome
Feb-06	Texas ARP		Molecular approach to early detection of multi-drug resistant tuberculosis	Restrepo	PI	0	2	\$ 100,000	0	not funded
Feb-06	NIH	CTSA (Clinical and Translational Research Award) -Pilot	Altered expression of immune response genes in tuberculosis patients with diabetes	Restrepo	PI: pilot	0	2	\$ 50,000	0	Pre-proposal accepted ; Funding secured
Mar-06	NIAID	R-01	Patients with type 2 diabetes have increased risk of MDR tuberculosis	Fisher-Hoch	Co-I	15	4	\$ 1,013,667	\$469,900	not funded
6-Oct	Borderplex		Susceptibility to a pulmonary infection in patients with type 2 diabetes	Restrepo	PI	5	1	\$ 50,000.00	\$ -	pending
Oct-06	NIH	Pilot PI for P20	Center of Excellence for Diabetes for Americans of Mexican Descent	Joseph B. McCormick	PI for pilot	5	2	\$ 96,748	\$ 46,922	pending
		Training core PI for P20			PI for training core	5	5	\$ 305,731	\$148,280	