

Curriculum vitae of C. Miguel Pinto
(Updated 23-Nov-2009)

PERSONAL INFORMATION

Name: Christian Miguel Pinto Báez
Born: January 3, 1981 (Quito, Ecuador)
Citizenship: Ecuador
Marital status: Unmarried
Mailing address: Department of Mammalogy
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EDUCATION

American Museum of Natural History & City University of New York

Ph.D., Biological Sciences, (Advisors: Nancy B. Simmons & Susan L. Perkins)
Dissertation topic: Evolutionary and biogeographic relationships of bats and their pathogens.

Texas Tech University

M.Sc., Biological Sciences, (Advisor: Robert J. Baker)
Thesis title: Genetic diversity of the common vampire bat *Desmodus rotundus* in Ecuador: Testing cross-Andean gene flow.
Graduation date: August 8, 2009.

Pontificia Universidad Católica del Ecuador

Licenciante (B.Sc.) in Biological Sciences (Advisors: Mario J. Grijalva and Tjitte de Vries)
Thesis title: Infección natural por tripanosomas en mamíferos domésticos y silvestres en Manabí, Loja y Guayas, Ecuador. [Natural Infection by trypanosomes in domestic and wild mammals in the provinces of Manabí, Guayas and Loja, Ecuador.]
Graduation date: June 30, 2005.

HONORS

- **Elected student representative to the board of directors of the American Society of Mammalogists, 2007 - 2010.** Highest leadership position for a student member of the society.
- **Elected to Golden Key International Honour Society, 2007**
- **Elected to the honor society of Phi Kappa Phi, 2007**
- **Elected President of the Association of Biology Students, Pontificia Universidad Católica del Ecuador 2002 – 2003.**

AWARDS

- **Summer Dissertation /Thesis Research Award, Texas Tech University, 2007.** (\$2,300)

- **Robert Packard Award, Texas Society of Mammalogists, 2007.** For the best overall oral presentation during the annual meeting (\$150).
- **Latin American Student Field Research Award, American Society of Mammalogists, 2006.** Project: Testing Trans-Andean gene flow in bats (\$1,500)
- **Undergraduate Honoraria, American Society of Mammalogists 2005.** Recognition to the best research projects presented by undergraduates during the annual meeting (\$400).

FELLOWSHIPS & SCHOLARSHIPS

- **AMNH Graduate Student Fellowship & CUNY Science Scholarship, American Museum of Natural History & City University of New York, 2009-2014.** (\$120,000 + tuition + health insurance).
- **Claredon Fund Scholarship & NDM Prize Studentship, University of Oxford, 2009-2013.** (£64,000 + tuition) (Declined).
- **Helen Hodges Educational Charitable Trust Scholarship, American State Bank, 2008.** (\$1,250).
- **J Knox Jones, Jr., Memorial Endowed Scholarship, Texas Tech University, 2007-2008.** Awarded in recognition to the accomplishments achieved during the graduate program in Mammalogy, especially for successful field work in Ecuador (2007) (\$2,500).
- **Visiting Scholarship, Field Museum of Natural History, 2007.** Project: Geographic barriers and cryptic bat diversity in the Neotropics: an assessment of morphological and molecular evidence (\$995).
- **J Knox Jones, Jr., Memorial Endowed Scholarship, Texas Tech University, 2006- 2007.** Awarded in recognition to the accomplishments achieved during the graduate program in Mammalogy, especially for successful field work in Suriname (2005) and Ecuador (2006) (\$1,250).
- **Study Abroad Competitive Scholarship, International Cultural Center of Texas Tech University, 2006.** (\$500).
- **Research Training Program, Smithsonian Institution, class 2004** (May –September, 2004). Research experience for undergraduates, highly competitive selection worldwide (> \$6,000).

GRANTS

- **Minigrant, Texas Tech University Association of Biologists, 2008.** Project: Ecology of Chagas disease in southern plains woodrats: meeting the theory with the data (\$700).
- **Minigrant, Texas Tech University Association of Biologists, 2006.** Project: Identifying the presence of a new species of Andean carnivore in the cloud forests of Ecuador (\$700).
- **Training Grant, UNDP/World Bank/WHO Special Programme for Research and Training in Tropical Diseases (TDR). 2005.** Project: Doctoral Training at Pontificia Universidad Católica del Ecuador. Research project: Chagas disease in mammalian reservoirs in Ecuador (\$29,632) (Declined).

LANGUAGE SKILLS

Spanish: native speaker

English: extensive experience, fluent speaking and writing

AREAS OF TECHNICAL EXPERTISE

- Field work experience in the Neotropics (Ecuador, Suriname, Argentina)
- Molecular techniques for systematic, phylogeographic and population genetics studies (DNA isolation, PCR, sequencing, cloning)
- Quantitative analyses (Geometric and traditional morphometrics approaches, and phylogenetics and population genetics)
- Microscopy techniques (SEM and light microscopes)

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

- 2005 - present** Sociedad Ecuatoriana de Biología (SEB)
2006 - present American Society of Mammalogists, life member (ASM)
2006 - present Sociedad Argentina para el Estudio de los Mamíferos (SAREM)
2006 - 2008 Texas Society of Mammalogists (TSM)
2008 - present American Association for the Advancement of Science (AAAS)

RELEVANT PROFESSIONAL EXPERIENCE

- **Symposium coordinator**, ‘Latin American Mammalogy: past, present and future perspectives’. 10th International Mammalogical Congress, Mendoza Argentina. (Aug. 2009)
- **Laboratory work**, Smithsonian Tropical Research Institute. Naos Research Laboratories, Panamá (Aug. 2009)
- **Research associate**, Centro de Investigación en Enfermedades Infecciosas, Pontificia Universidad Católica del Ecuador (Jul. 2006 – present)
- **Teaching assistant**, Texas Tech University: Biology of Animals 1402 (Aug. – Dec. 2006), General Biology 1403 (Aug. – Dec. 2008), General Biology 1404 (Jan. – May 2009).
- **Research assistant**, Department of Biological Sciences, Texas Tech University (Aug. 2005 – Jul. 2006; Jan. 2007 – Aug. 2008)
- **Field work** in cloud forests of western Ecuador to determine the presence of a new species of Andean carnivore, together with Don Wilson, Kristofer Helgen and Roland Kays (Jul. – Aug., 2006)
- **Consultant** for Conservation International during the Suriname RAP-2005. Field work in the Nassau and Lely Mountains (Oct. 23 – Nov. 10, 2005)
- **Participant** of the Research Training Program at Natural History National Museum, Smithsonian Institution (USNM). Wide arrange of research activities with specimens of marsupials, bats, carnivores and rodents, under the advice of Alfred L. Gardner (Washington DC, May – Sep. 2004)
- **Field and museum work** with parasites of rodents and bats (Instituto Miguel Lillo, Tucumán, Argentina; Centro de Estudios Parasitológicos y de Vectores, La Plata, Argentina; and Departamento de Parasitología, Universidad de la República, Montevideo, Uruguay, Feb. – Mar. 2004)
- **President** of the Association of Biology Students (Pontificia Universidad Católica del Ecuador, Oct. 8, 2002 – Jul. 1, 2003)
- **Research assistant and field worker** for the project “Prevalence of *Trypanosoma cruzi* in marsupials, rodents and canids in several localities of Ecuador” (Laboratorio de Investigación en Enfermedades Infecciosas at Pontificia Universidad Católica del Ecuador, Jul 2001 – Jul 2005)
- **Coordinator** of workshop “Introduction to the field methods for the study of mammals in Ecuador” (Pontificia Universidad Católica del Ecuador, Apr. 10 – Jul. 3, 2002)

- **Training Scholar** (The Center of Biodiversity and Environment at Universidad Católica, Mar. – Jun. 2001)
- **Teaching and field assistant** Field Biology Methods course in Yasuní National Park, Ecuador, (Feb. – Mar., 2001)
- **Field assistant** in several projects involving work with insects (butterflies, mosquitoes, kissing bugs), amphibians, birds, and mainly mammals. (Nov. 1998 – Dec. 2004)

EDITORIAL ACTIVITY

Manuscripts reviewed for the following journals: Check List, Genética, Mastozoología Neotropical, Occasional Papers of The Museum of Texas Tech, Revista de Biología Tropical, Southwestern Naturalist.

ABSTRACTS, POSTERS AND PRESENTATIONS AT SCIENTIFIC MEETINGS

29. **Pinto C. M.** 2009. Bats and the origin of Chagas Disease. 39th Annual North American Symposium on Bat Research (Presenting author).
28. **Pinto C. M.** 2009. Conclusions of the symposium ‘Latin American Mammalogy: past, present and future perspectives’. 10th International Mammalogical Congress, Mendoza Argentina. (Presenting author – and Symposium organizer).
27. Helgen L. E., K. M. Helgen K.M., R. Kays, M. T. N. Tsuchiya-Jerep, **C.M. Pinto**, K. Koepfli, E. Eizirik, J.E. Maldonado. 2009. Taxonomic boundaries and geographic distributions revealed by an integrative systematic overview of the mountain coatis, *Nasuella* (Carnivora: Procyonidae). 10th International Mammalogical Congress, Mendoza Argentina. (Poster)
26. **Pinto C. M.**, H Mantilla-Meluk, S. R. Hoofer, R. J. Baker. 2009. The Andes Mountains, human impact, and the genetic structure of vampire bats. 89th Meeting of the American Society of Mammalogists (Presenting author).
25. **Pinto C. M.**, H Mantilla-Meluk, S. R. Hoofer, R. J. Baker. 2008. Is the Andes mountain range a strong geographic barrier for common vampire bats? 38th Annual North American Symposium on Bat Research (Presenting author).
24. Mantilla-Meluk H., **C. M. Pinto**, R. J. Baker. 2008. Floristic evolution in the Neotropics and the geographic conquest of nectarivory in phyllostomid bats: Implications of convergent histories. 38th Annual North American Symposium on Bat Research (Presenting author).
23. **Pinto C.M.**, H Mantilla-Meluk, S. R. Hoofer, R. J. Baker. 2008. Population structure of common vampire bats in Ecuador: testing trans-Andean gene flow. 88th Meeting of the American Society of Mammalogists (Presenting author).
22. **Pinto C.M.**, E. E. Tapia, F. A. Anwarali, M. R. Marchán, S. Ocaña-Mayorga, A. G. Villacís, S. Solari, S. R. Hoofer, M. M. McDonough, A. W. Ferguson, J. C. Cokendolpher, M. J. Grijalva, R. J. Baker. 2008. Bats from southern Ecuador: diversity, roosts, disease, and human impact. 26th Annual Meeting of the Texas Society of Mammalogists (Presenting author).
21. **Pinto C. M.**, K. M. Helgen, R. W. Kays, L. E. Helgen, J. E. Maldonado, A. Quinn, and D. E. Wilson. 2007. A new species of Carnivora from northern Andean cloud forests. 87th Meeting of the American Society of Mammalogists (Presenting author).
20. Mantilla-Meluk H., **C. M. Pinto**, R. J. Baker, and J. Salazar-Bravo. 2007. Computer modeling applied to the identification of human Hantavirus outbreak “hot-spots” in South America. 87th Meeting of the American Society of Mammalogists.
19. Wilson T., **C. M. Pinto**, L. Ruedas, J. Salazar-Bravo. 2007. Preliminary analysis for morphometrics variation in *Sylvilagus brasiliensis* (Lagomorpha: Leporidae). 87th Meeting of the American Society of Mammalogists. (Poster).

18. **Pinto C. M.**, K. M. Helgen, R. W. Kays, A. Molina, J. S. Tello, L. E. Helgen, J. E. Maldonado, A. Quinn, and D. E. Wilson. 2007. Mammalian speciation and variability in the Northern Andes: rabbits, nectar feeding bats and olingos. 25th Annual Meeting of the Texas Society of Mammalogists. (Recipient of the Robert Packard Award for best overall oral presentation) (Presenting author).
17. **Pinto C. M.** 2006. Taxonomic status of the highland tapetis (Leporidae: *Sylvilagus*) of Ecuador. 86th Meeting of the American Society of Mammalogists (Presenting author).
16. **Pinto C. M.**, S. Ocaña-Mayorga, M. S. Lascano, and M. J. Grijalva. 2006. Infection by trypanosomes in marsupials and rodents associated to human dwellings in Ecuador. Annual meeting of the Southeastern Society of Parasitologists (Absent, but presented by third author).
15. **Pinto C. M.**, and A. L. Gardner. 2006. Morphological differentiation between two species of red bats, *Lasiurus blossevillii* and *L. borealis*. 24th Annual Meeting of the Texas Society of Mammalogists. (Presenting author).
14. Notarnicola J., G. T. Navone, and **C. M. Pinto**. 2005. Distribución geográfica de 5 especies de *Dipetalonema* (Nematoda: Onchocercidae) parásitas de monos platirrinos Neotropicales. Primer registro para Ecuador. [Geographic distribution of 5 species of *Dipetalonema* (Nematoda: Onchocercidae) parasites of Neotropical plathirrine monkeys. First record to Ecuador]. XX Jornadas Argentinas de Mastozoología.
13. **Pinto C. M.**, S. Ocaña, M. Lascano, and M. J. Grijalva 2005. Infection by trypanosomes in marsupials and rodents associated to human dwellings in Ecuador. 85th Meeting of the American Society of Mammalogists (Recipient of an ASM Undergraduate honoraria award). (Presenting author).
12. **Pinto C. M.**, P. Jarrín-V., J. M. Venzal, and A. A. Guglielmone 2004. *Antricola* Cooley & Kohls (Acari: Argasidae), un nuevo género de garrapatas para Ecuador. [*Antricola* Cooley & Kohls (Acari: Argasidae), a new genus of ticks for Ecuador]. XXVIII Jornadas Ecuatorianas de Biología. (Presenting author).
11. Ocaña S. B., A. Molina, **C. M. Pinto**, and M. J. Grijalva. 2004. Mamíferos reservorios de la enfermedad de Chagas en tres comunidades de la provincia de Manabí. [Mammalian reservoir hosts of Chagas disease in three communities of Manabí Province]. XXVIII Jornadas Ecuatorianas de Biología. (Presenting author).
10. **Pinto C.M.**, Ocaña-Mayorga S., Lascano M.S., Costales J.A., Riner D., Wenck M.A., Grijalva M.J. 2004. Infección natural por tripanosomas en marsupiales y roedores en las provincias de Guayas y Loja, Ecuador. [Natural infection by trypanosomes in marsupials and rodents in Guayas and Loja provinces, Ecuador]. II Congreso Binacional de Estudiantes de Biología Ecuador - Perú. (Presenting author).
9. **Pinto C. M.**, and M. J. Grijalva. 2004. Agentes infecciosos y sus mamíferos reservorios, dos casos prioritarios a estudiar en Ecuador: *Trypanosoma rangeli* y las infecciones por *Hantavirus*. [Infectious agents and their mammal reservoir hosts, two priority cases to study in Ecuador: *Trypanosoma rangeli* and infections by *Hantavirus*]. II Congreso Binacional de Estudiantes de Biología Ecuador - Perú. (Presenting author).
8. Grijalva M. J., **C. M. Pinto**, and J. A. Costales. 2002. Isolation of *Trypanosoma cruzi*-like organisms from rodents and marsupials in the Coastal region of Ecuador. Annual meeting of the Southeastern Society of Parasitologists.
7. **Pinto C. M.**, M. J. Grijalva, and J.A. Costales. 2002. Prevalencia de *Trypanosoma cruzi* en roedores y marsupiales en dos localidades de Manabí, Ecuador. [Prevalence of *Trypanosoma cruzi* in rodents and marsupials in two communities in Manabí Province]. XXVI Jornadas Ecuatorianas de Biología. (Presenting author).
6. Fonseca R. M., J. P. Carrera, T. Enríquez, D. O. Lasso, **C. M. Pinto**, S. Tello, and X. Viteri. 2002. Identificación preliminar de un corredor ecológico para mamíferos entre los parques nacionales Llanganates y Sangay. [Preliminary identification of an ecological corridor of

- mammals between the Llanganates and Sangay national parks]. XXVI Jornadas Ecuatorianas de Biología.
5. **Pinto C. M.**, and P. Jarrín-V. 2001. Primer reporte de myiasis subdérmica en *Oryzomys albigularis* (Rodentia: Muridae) causada por *Metacuterebra* sp. (Diptera: Cuterebridae). [First report of subdermic myiasis in *Oryzomys albigularis* (Rodentia: Muridae) caused by *Metacuterebra* sp. (Diptera: Cuterebridae)]. XV Jornadas Ecuatorianas de Biología. (Presenting author).
 4. **Pinto C. M.**, J. P. Carrera, P. Jarrín-V., and R. M. Fonseca. 2000. Nuevos registros geográficos de murciélagos en el Ecuador. [New geographic ranges of bats in Ecuador]. XXIV Jornadas Ecuatorianas de Biología. (Presenting author).
 3. **Pinto C. M.**, D. O. Lasso, and P. Jarrín-V. 1999. Dieta de *Micronycteris* (Phyllostomidae: Chiroptera) en dos localidades de bosques nublados noroccidentales del Ecuador. [Diet of *Micronycteris* (Phyllostomidae: Chiroptera) in two localities of north-western cloud forests from Ecuador]. XXIII Jornadas Ecuatorianas de Biología. (Presenting author).
 2. Carrera J. P., F. Ayala, E. López, **C. M. Pinto**, R. M. Fonseca, and P. Jarrín-V. 1999. Aspectos biológicos del control del vampiro común, *Desmodus rotundus* (Chiroptera: Phyllostomidae) en la zona ganadera de Archidona, Provincia de Napo, Ecuador. [Biological aspects of the control of common vampire bat, *Desmodus rotundus* (Chiroptera: Phyllostomidae) in the cattle ranching area of Archidona]. XXIII Jornadas Ecuatorianas de Biología.
 1. Bravo J. J., G. Carrillo, **C. M. Pinto**, R. M. Fonseca, and P. Jarrín-V. 1999. Diversidad de mamíferos en la reserva ecológica Río Guajalito. [Mammal diversity in the ecological reserve Río Guajalito]. XXIII Jornadas Ecuatorianas de Biología.

INVITED TALKS

Smithsonian Tropical Research Institution, Bambi Seminar Series, Barro Colorado Island – Panamá (Aug. 2009).

PUBLICATIONS

In Print:

14. Helgen K.M., R. Kays, L. E. Helgen, M. T. N. Tsuchiya-Jerep, **C.M. Pinto**, K. Koepfli, E. Eizirik, J.E. Maldonado. 2009. Taxonomic boundaries and geographic distributions revealed by an integrative systematic overview of the mountain coatis, *Nasuella* (Carnivora: Procyonidae). *Small Carnivore Conservation* 41: 65-74.
13. Notarnicola J., **C. M. Pinto**, and G. T. Navone. 2008. Host occurrence and geographical distribution of *Dipetalonema* spp. (Nematoda: Onchocercidae) in Neotropical monkeys and the first record of *Dipetalonema gracile* in Ecuador. *Comparative Parasitology* 75(1): 61-68.
12. **Pinto C. M.**, and J. Salazar-Bravo. 2007. Review of: Disease ecology: community structure and pathogen dynamics (Collinge, S. K. and C. Ray, eds.). *Journal of Mammalogy* 88(5): 1349.
11. **Pinto C. M.**, J. P. Carrera, H. Mantilla-Meluk, and R. J. Baker. 2007. Mammalia, Chiroptera, Phyllostomidae, *Diaemus youngi*: first confirmed record for Ecuador and observations of its presence in museum collections. *Check List* 3(3): 244-247.
10. Solari S. and **C. M. Pinto**. 2007. A rapid assessment of mammals of the Nassau and Lely plateaus, Eastern Suriname. pp. 130-134. In: Alonso, L. E. and J. H. Mol (eds.). A rapid biological assessment of the Lely and Nassau plateaus, Suriname (with additional information on the Brownsberg Plateau). *RAP Bulletin of Biological Assessment* 43. Conservation International, Arlington.

9. Salazar-Bravo J., and **C. M. Pinto**. 2007. Revisión de: Mamíferos de Argentina: sistemática y Distribución (Barquez, R. M., M. M. Díaz, and R. A. Ojeda, eds.). [Review of: Mammals of Argentina: systematics and distribution]. *Mastozoología Neotropical* 14(1): 133-137.
8. **Pinto C. M.**, S. Ocaña-Mayorga, M. S. Lascano, and M. J. Grijalva. 2006. Natural Infection of trypanosomes in marsupials and rodents associated to human dwellings in Ecuador. *Journal of Parasitology* 92(6):1251-1255.
7. **Pinto C. M.** 2006. An accidental record of the Northern Yellow Bat, *Lasiurus intermedius*, in Illinois. *Bat Research News* 47(2):37-38.
6. **Pinto C. M.** 2005. Revisión de: Los nombres de los mamíferos del Ecuador (Tirira D.). [Review of: Names of the mammals of Ecuador]. *Mastozoología Neotropical* 12(2): 289-291.
5. **Pinto C. M.**, and G. L. Claps. 2005. First record of *Cuterebra almeidai* (Guimarães and Carrera) from Argentina, new host records for *Cuterebra apicalis* Guérin-Méneville, and list of *Cuterebra* (Diptera: Oestridae) in the collection of the Instituto-Fundación Miguel Lillo, Tucumán, Argentina. *Proceedings of the Entomological Society of Washington* 107(3): 572-575.
4. **Pinto C. M.**, and A. L. Gardner. 2004. Marsupials from Argentina: Comments on Ojeda and Monjeau (1995). *Mastozoología Neotropical* 11(2): 257-260.
3. Fonseca R. M., and **C. M. Pinto**. 2004. A new *Lophostoma* (Chiroptera: Phyllostomidae: Phyllostominae) from the Amazonia of Ecuador. *Occasional Papers, Museum of Texas Tech University* 242: 1-9.
2. **Pinto C. M.**, M. J. Grijalva, and J. A. Costales. 2003. Prevalencia de *Trypanosoma cruzi* en roedores y marsupiales en dos localidades de Manabí, Ecuador. [Prevalence of *Trypanosoma cruzi* in rodents and marsupials in two localities in Manabí Province, Ecuador]. *Revista de la Pontificia Universidad Católica del Ecuador* 71: 225-233.
1. Fonseca R. M., J. P. Carrera, T. Enríquez, D. O. Lasso, **C. M. Pinto**, S. Tello, and X. Viteri. 2003. Identificación preliminar de un corredor ecológico para mamíferos entre los parques nacionales Llanganates y Sangay. [Preliminary identification of an ecological corridor for mammals between the Llanganates and Sangay national parks]. *Revista de la Pontificia Universidad Católica del Ecuador* 71: 201-216.

Accepted:

Pinto CM, Baxter BD, Hanson JD, Méndez-Harclerode FM, Suchecki JR, Grijalva MJ, Fulhorst CF, Bradley RD. Museum collections and pathogens: Texas woodrats and *Trypanosoma cruzi*. *Emerging Infectious Diseases* (Accepted).

Submitted:

Pinto C. M., S. Ocaña-Mayorga, A. G. Villacís, E. E. Tapia, F. A. Anwarali Khan, A. P. Zurita, S. Solari, M. C. Knapp, R. J. Baker, M. J. Grijalva. Triatomine bugs and bats in human buildings: findings of *Cavernicola pilosa* and *Triatoma dispar*. *Biota Neotropica* (Submitted).

CURRENT RESEARCH AND COLLABORATORS (selected of 10 active projects)

- Studies on discovery, prevalence and phylogenetic characterization of *Trypanosoma* from mammals, mainly bats. With S.L. Perkins (AMNH), N.B. Simmons (AMNH), M. J. Grijalva (Ohio University), and S. Ocaña-Mayorga (Universidad Católica del Ecuador).
- Molecular and morphological characterization of *Trypanosoma* and nematode parasites of Túngara frogs from Panamá. With X. E. Bernal (Texas Tech University).

- Genetic diversity of the common vampire bat *Desmodus rotundus* in Ecuador: Testing cross-Andean gene flow. With L. M. Dávalos (SUNY, Stony Brook), A. L. Russell (Grand Valley State University), H. Mantilla-Meluk, and R. J. Baker (Texas Tech University), and S. R. Hooper (University of Kansas).
- A systematic review of the olingos (Carnivora, *Bassaricyon*) with the description of a new species from northern Andean cloud forests. With Helgen K. M., L. E. Helgen, J. E. Maldonado, A. Quinn, and D. E. Wilson (Smithsonian Institution) and R. W. Kays (New York State Museum).
- Molecular evolution of a functional sweet taste gene (T1R2) in bats. With H. Zhao, Y. Zhou, and S. Zhang (East China Normal University).
- Rivers are geographic barriers to dispersal in birds but not bats. With R. H. Pine (The Field Museum and University of Kansas).

REFERENCES

Dr. Nancy B. Simmons

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Dr. Robert J. Baker

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Dr. Mario J. Grijalva

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Director, Centro de Investigación en Enfermedades Infecciosas, Pontificia Universidad Católica del Ecuador. Av. 12 de Octubre and Roca, Quito- Ecuador. E-mail: grijalva@ohio.edu

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Dr. Kristofer M. Helgen

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Dr. Alfred L. Gardner

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