

Katharina Dittmar de la Cruz

CURRICULUM VITAE

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Personal Information:

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Education:

DVM University of Leipzig, Germany, *Cum Laude*, 1998
Anthropology and Archaeology, Universidad Nacional Mayor de San Marcos, Lima, Peru (Bachelor Level Studies) 1999-2000
Ph.D. in Molecular Parasitology and Paleoparasitology, University of Leipzig, Germany and Universidad Nacional Mayor de San Marcos, Lima, Peru, 1999-2001, Advisors: Prof. Dr. Karl Reinhard, Prof. Dr. Adauto Araujo, Prof. Dr. R. Ribbeck, *Magna Cum Laude*, Dissertation title: *Ectoparasites of caviid rodents of Peru, with special emphasis on domesticated guinea pigs and guinea pig mummies from the Chiribaya Culture.*

Awards and Grants:

CNPq Grant of the Brazilian National Counsel for the Development of Science and Technology, **\$ 30,000** (with Adauto Araujo) 2003-2004
NSF Supplemental Grant: International Opportunities for Scientists and Engineers, **\$ 15,000** 2003-2004
Post Doctoral Research Grant of the Karl-Enigk-Foundation, **\$ 64,000** 2001
Dissertation Improvement Grant of the H. W. Schaumann Foundation, **\$ 1000** 2001
Dissertation Research Grant of the Boehringer-Ingelheim-Foundation, **\$ 10,000** 2001
Dissertation Improvement Grant of the German Academic Exchange Service, **\$ 5000** 2001
Travel Award of the Freundeskreis Tiermedizin, Veterinary Faculty, University of Leipzig, **\$ 200** 1998
Travel Award of the Freundeskreis Tiermedizin, Veterinary Faculty, University

of Leipzig, \$ 200	1997
ERASMUS Graduate Study Award, \$ 6000	1996
Undergraduate Research Travel Award of the German Academic Exchange Service, \$ 2000	1994

Professional Experience:

Post-Doc, Department of Integrative Biology, Brigham Young University	2001-present
Research Assistant, Regine Ribbeck, University of Leipzig, Germany	2000-2001
Research Assistant, Jane Wheeler, Universidad Nacional Mayor de San Marcos, Lima, Peru	1998-2000
Research Intern, Anthropology (Karl Reinhard), University of Nebraska, USA	2000
Research Intern, Microbiology, Universidade Technica de Lisboa, Portugal	1996
Veterinary Assistant, University Small Animal Clinic, Leipzig, Germany	1995
Research Intern, Virology, Institute of Animal Sciences, Istanbul, Turkey	1994

Invited Lectures:

- Meetings of the American Society for Tropical Medicine and Hygiene,
Philadelphia, USA, December 2003, Invited Speaker
- Universidade de Pará, Belem, Brazil, November 2003, Seminar Speaker
- Escola Nacional de Saude Publica, Instituto Oswaldo Cruz, Rio de Janeiro, Brazil,
October 2003, Seminar Speaker
- Insect Systematic Symposium, Dresden, Germany, October 2003, Invited Speaker
- Meetings of the Russian Entomological Society, St. Petersburg, Russia, September
2002, Invited Speaker
- Museo Nacional do Rio de Janeiro, Brazil, November 2001, Seminar Speaker
- Universidad Nacional Major de San Marcos, June 2000, Seminar Speaker

Invited Courses:

Phylogenetics and Systematics, 2 weeks, Instituto Oswaldo Cruz, Rio de Janeiro,
Brazil

Publications:

Book Chapters:

Systematics and Evolution of Vectors. GREENART Press, University of Copenhagen, in preparation.

Journals (peer reviewed):

1. **Dittmar K** (2000): Ectoparasites on Guinea Pig Mummies of El Yaral. *Chungara: Rev. Antrop. Chil.* 32 (1): 123- 127.
2. Araujo A, **Dittmar K**, Reinhard K (2000): Then thousand years of head lice infection. *Parasitology Today* 6: 216.
3. **Dittmar K**, Teegen WR, Cordie Hackenberg R (2001): Nachweis von Eingeweideparasiteneiern in einem Abfallschacht aus dem römischen Vicus von Belginum/Wederath, Kr. Bernkastel-Wittlich. *Archäologische Rundschau* 15: 145-151.
4. **Dittmar K** (2002): Arthropod and Helminth parasites of the wild guinea pig, *Cavia aperea*, from the Andes and the Cordillera in Peru, South America. *Journal of Parasitology* 88 (2): 409-411.
5. **Dittmar K**, Worschech K (2002): Siphonapterafauna aus Siebenschläfernestern (*Myoxus glis*, Linnaeus 1766) der Region Altenburg. *Säugetierkundliche Information* 19: 22-24.
6. Rick FM, Chaves da Rocha G, **Dittmar K**, Alvares Coimbra CE, Reinhard K, Ferreira LF, Araujo A (2002): Crab Louse Infection in PreColumbian America. *Journal of Parasitology* 88 (6): 1266-1277.
7. **Dittmar K**, Ludewig E, Conlogue J, Guillen S (2003): Bone-pathologies in Peruvian dog mummies from the Chiribaya Culture, Southern Peru, determined by X-ray. *Proceedings of the 4th World Congress on Mummy Studies, Nuuk 2001, Greenland.* Kopenhagen University Press. pp 113-115.
8. **Dittmar K** (2003): Studies on parts of 28S rDNA on 1000 year old fleas (*Pulex* sp.) from the Chiribaya Culture, Southern Peru. *Proceedings of the 4th World Congress on Mummy Studies, Nuuk 2001, Greenland.* Kopenhagen University Press. pp. 134-135.
9. **Dittmar K**, Teegen WR (2003): The presence of *Fasciola hepatica* (liver-fluke) in humans and cattle from a 4500 year old archeological site in the Saale-Unstrut-Valley, Germany. *Memorias do Instituto Oswaldo Cruz* 98(I): 137-141.
10. Bouchet F, Guidon N, **Dittmar K**, Harter S, Ferreira LF, Chaves SM, Reinhard K & Araújo A (2003): Parasite remains in archeological sites. *Memorias do Instituto Oswaldo Cruz* 98(I): 39-47.
11. **Dittmar K**, Goldmann T, Mamat U, Whiting M, Guillen S (2003): Techniques of DNA-studies on Prehispanic Ectoparasites (*Pulex* sp., Pulicidae, Siphonaptera) from Animal Mummies of the Chiribaya Culture, Southern Peru. *Memorias do Instituto Oswaldo Cruz* 98(I): 48-59.
12. Martinson E, Reinhard KJ, Buikstra JE, **Dittmar K** (2003): Pathoecology of Chiribaya Parasitism. *Memorias do Instituto Oswaldo Cruz* 98(I): 191-195.

13. **Dittmar K**, Ribbeck R, Dauschies A (2003): Vorkommen und Verbreitung von Ektoparasiten bei Meerschweinchen (*Cavia* sp.) in Peru, Südamerika. Berliner und Münchner Tierärztliche Wochenschriften 116: 102-107.
14. **Dittmar K**, Ribbeck R, Dauschies A (2003): Paleoparasitologische Analyse von Meerschweinchenmumien der Chiribaya Kultur (900- 1100 AD), Moquegua Tal, Peru. Berliner und Münchner Tierärztliche Wochenschriften 116: 45-49.
15. **Dittmar K**, Whiting MF (2003): Genetic and phylogeographic structure of populations of *Pulex simulans* (Siphonaptera) from domesticated guinea pigs (*Cavia aperea* f. *porcellus*) in Peru inferred from two genes (Cyt B and Co II). Parasitology Research, DOI 10.1007/s00436-003-0879-5.
16. **Dittmar K**, Morando M, Avila A (2003): Description of a New Pterygosomatid Mite (Acari: Actinedida: Pterygosomatidae) from *Liolaemus* sp. (Iguanidae) from Argentina. **submitted**: Acta Zoologica.
17. **Dittmar K**, **Whiting MF** (2003): New *Wolbachia* sp. endosymbionts from eight Families of Siphonaptera throughout the Nearctic and Neotropical Region. **submitted**: Journal of Parasitology.
18. **Dittmar K**, Steyn M (2004): Paleoparasitological Analysis of the Mbugabwe Complex in South Africa: The first finding of *Dicrocoelium* sp. eggs. **accepted**: Journal of Parasitology.

Selected Professional Meetings:

14. – 19. September 1998, 3rd World Mummy Congress in Arica, **Chile**, Presentation: Techniques of Recovery and Mounting for Ectoparasitic Arthropod Remains in Archeological Material.
27. – 28. April 1999, 26th Annual Paleopathology Meeting, Columbus, Ohio, **U.S.A.** 1999, Poster: Crab Lice Infestation in Ancient South America.
11. – 12. April 2000, 27th Annual Paleopathology Meeting, San Antonio, **U.S.A.**, Presentation: Paleoparasitological Studies on Prehistoric Material from Karsdorf, Germany.
12. –14. Juli 2000, 5th International Conference on Ancient DNA, Manchester, **UK**, Poster: Studies on ancient DNA of ectoparasites.
26. November 2000, Museu Nacional do Rio de Janeiro, **Brasil**, Seminar: Paleoparasitologia no Novo Mundo.
27. – 28. März 2001, 28th Annual Paleopathology Meeting, Kansas City, **U.S.A.**, Presentation: Paleoparasitological findings of Bernkastel/Wittlich, Germany.
4. – 10. September, 4th World Congress of Mummy Studies, Nuuk, **Greenland**, Presentation: Techniques of recovery of aDNA from archeological arthropod remains.
4. – 10. September 2001, 4th World Congress of Mummy Studies, Nuuk, **Greenland**, Presentation: X-ray Analysis of seven Peruvian Dog Mummies from the Chiribaya Culture, Peru.
21. - 24. März 2002, Joint Meetings of the German and Dutch Parasitological Societies, Luebeck-Travemünde, **Germany**, Presentation: The species Problem: A revision of the genus *Pulex*.

28. März - 1. April 2002, Meetings of the South African Society of Anatomists, Durban, **South Africa**, Poster: Paleoparasitological findings at site K2, Mwgabwe Complex.
9. – 10. April 2002, 29th Annual Paleopathology Meeting, Buffalo, **U.S.A.** 2002, Presentation: Animal and human infestation with *Fasciola hepatica* at a Neolithic Site in Karsdorf, Germany.
29. Juni – 01. Juli, 2002, , **U.S.A.**, Joint Meetings of the SSE and SSB, Presentation: Mummy Fleas on Modern Trees.
19. – 24. August 2002, Meeting of the Entomological Society of Russia, Sankt Petersburg, **Russia**, Presentation: Phylogeny of Siphonaptera.
19. – 24. August 2002, Meeting of the Entomological Society of Russia, Sankt Petersburg, **Russia**, Presentation: Population Genetics of the genus *Pulex*.
22. – 23. April 2003, Annual Meeting of the Paleopathology Association of America, Tempe, Arizona, **U.S.A.**, Presentation: Molecular Diagnosis of Prehistoric *Trypanosoma cruzi* in the Texas-Coahuila border region.