

ANA SITTENFELD-APPEL

Born: April 1, 1953, San José, Costa Rica.

ADDRESS:

Centro de Investigación en Biología Celular y Molecular (CIBCM). Universidad de Costa Rica, Ciudad Universitaria Rodrigo Facio, San José, Costa Rica. Phone: +506/207-3204 or 207-3194; Fax: +506/207-3190 or 224-52-44. Electronic mail sitten@racsa.co.cr

EDUCATION

Years attended	Institution	Degree obtained
1970-1978	University of Costa Rica	Lic. and Professional doctorate, Microbiology
1982-1985	University of Costa Rica	Magister Scientiae, Microbiology

AWARDS

Honor graduation, Faculty of Microbiology and Clinical Chemistry, University of Costa Rica.
M.Sc. Thesis awarded with honorary mention.

LANGUAGES: Spanish and English

RECENT WORK EXPERIENCE

- 1989-to date: Associate Professor, Faculty of Microbiology, University of Costa Rica.
- 1986- to date: Senior Staff Scientist. Center for Research in Cellular and Molecular Biology (CIBCM), University of Costa Rica.
- April 1996-to date: Scientific Advisor for Bioprospecting, National Biodiversity Institute, INBio.
- 1988-1989: Director, CIBCM, University of Costa Rica.
- 1991-to March 1996: Director, Biodiversity Prospecting Division, INBio.
- April 1996 to May, 1998: Director, CIBCM, University of Costa Rica.

MEMBERSHIPS

- 1991-1998 Member. National Biotechnology Committee. Ministry of Science and Technology.
- 1994-to date Member. Private and Public, Scientific Academic and Consumer Food Policy Committee. Harvard University, Graduate School of Business Administration
- 1996 -1997 Member. Inter-American Commission on Biodiversity and Sustainable Development.
- 1996 -1999 Member. National Advisory Committee for Biodiversity (COABIO)
- 1996-1999 President of the Board of Directors, Costa Rica-United States Foundation (CRUSA)
- 1999- 2002 Vice-President of the Board of Directors, CRUSA
- 1997-to date Member (Vice-chair since 2001) Board of Trustees, International Livestock Research Institute (ILRI), (CGIAR), Kenya and Ethiopia.
- 2001-to date Member, Consultative Group for Agricultural Biotechnology, Latin America, UNIDO
- 2001 to date Coordinator, Institutional Biodiversity Commission, University of Costa Rica

SOME RECENT PUBLICATIONS

1-Sittenfeld, A., Raventós, H., Cruz, R. and Gutierrez, J.M. 1991. DNase activity in Costa Rican crotaline snake venoms: quantification of activity and identification of electrophoretic variants. *Toxicon* 29: 1213-1224.

- 2-Valiente, C., Moreno, E., Sittenfeld, A., Lomonte, B., Gutierrez, J.M: 1992. An Electrophoretic Study on Phospholipase A₂ Isoenzymes in the Venoms of Central American Crotaline Snakes. *Toxicon* 30: 815-823.
- 3-Sittenfeld, A., and Villers, R. 1993. Exploring and Preserving Biodiversity in the Tropics: The Costa Rican Case. *Current Opinion in Biotechnology*, 4:280-285.
- 4-Sittenfeld, A., and Gámez, R. 1993. Biodiversity Prospecting by INBio. In: *Biodiversity Prospecting: Using Genetic Resources for Sustainable Development*. Washington D.C.: World Resources Institute. pp. 69-98
- 5-Sittenfeld, A., and Villers, R. 1994. Costa Rica's INBio: Collaborative Biodiversity Research Agreements with the Pharmaceutical Industry. In: *Principles of Conservation Biology*, G.K. Meffe and R. Carroll (eds). Sinauer Associates Inc., Massachusetts, pp. 500-504.
- 6-Sittenfeld, A., and Artuso, A. 1995. A Framework for Biodiversity Prospecting: The INBio Experience. *Arid Lands Newsletter (University of Arizona)* 37: 8-11.
- 7-Sittenfeld, A. 1996. Tropical Medicinal Plant Conservation and Development Projects: The case of Costa Rican National Institute of Biodiversity (INBio). In: *Medicinal Resources of the Tropical Forest*. M.J. Balick, E. Elisabetsky, S. Laird (eds). Columbia Univ. Press, New York, 335-340 pp.
- 8-Sittenfeld, A. 1996. Special Article on Issues and Strategies for Bioprospecting. *Genetic Engineering and Biotechnology* 4: 1-12.
- 9-Tamayo, G., Nader, W., Sittenfeld, A. 1997. Biodiversity for the Bioindustries. In: *Biotechnology and Plant Genetic Resources: Conservation and Use* (eds: B. V. Ford-Lloyd, H. J. Newbury and J.A. Callow) CAB International, UK. 255-279pp.
- 10-Sittenfeld, A. 1998. Biotecnología, prospección de la biodiversidad y acceso a los recursos genéticos: cuestiones para América Latina.. In: *Transformación de las prioridades en programas viables. Actas del Seminario de política biotecnológica agrícola para América Latina*. Perú, 6 al 10 de octubre de 1996. Komen, J., C. Falconi y H. Hernández (eds). La Haya/México, D.F.: Intermediary Biotechnology Service/Cambiotec 16-23pp.
- 11-Sittenfeld, A., and Lovejoy A. 1998. Biodiversity Prospecting Frameworks: The INBio Experience in Costa Rica. In: *Protection of Global Biodiversity, Coverging Strategies*. L.D. Guruswamy and J. A. McNeely (eds.). Duke University Press. Durham and London, 223-244pp.
- 12-Sittenfeld, A., and Lovejoy, A. 1999. Managing Bioprospecting and Biotechnology for Conservation and Sustainable Use of Biological Diversity. In: *Managing Agricultural Biotechnology: Addressing Research Program Needs and Policy Implications for Developing Countries*. Cohen, J (ed.) ISNAR CAB International, UK. 92-101pp
- 13-Sittenfeld, A., G. Tamayo, V. Nielsen, A. Jiménez, P. Hurtado, M. Chinchilla, O. Guerrero, M.A. Mora, M. Rojas, R. Blanco, E. Alvarado, J.M. Gutiérrez and D.H. Janzen 1999. Costa Rican International Cooperative Group: Using insects and other arthropods for biodiversity prospecting. *Pharmaceutical Biology* 37, 1-14.
- 14-Sittenfeld, A., Espinoza, A.M., Muñoz, M. and Zamora, A. 2000. Costa Rica: Challenges and Oportunities in Biotechnology and Biodiversity. In: *Agricultural Biotechnology and the Poor, Proceedings of an International Conference*, Washington, D.C., 21-22 October 1999, G.J. Persley and M.M. Lantin (eds). Consultative Group on International Agricultural Research, Washington, D.C. 79-89 pp.
- 15-Chinchilla, M., Guerrero, O.M., Tamayo, G. y Sittenfeld, A. 2001. Empleo de técnicas y materiales biológicos en la búsqueda de productos activos contra la malaria. *Información Tecnológica*, 12: 187-192.

- 16.- Sittenfeld, A., Espinoza, A.M., Muñoz, M. and Zamora, A. 2002. Costa Rica. In: Agricultural Biotechnology: Country Case Studies- a Decade of Development-. G. J. Persley and L.G. MacIntyre (eds). CABI Publishing, Wallingford, UK. 203-215 pp.
- 17.-Sittenfeld, A., Uribe-Lorio, L., Mora, M., Nielsen, V., Arrieta, G. y Janzen, D.H. 2002. Does a polyphagous caterpillar have the same gut microbiota when feeding on different species of food plants. *Rev. Biol Trop.* 50 (2), 547-560.
- 18.-Sittenfeld, A., Mora, M., Ortega, J.M., Albertazzi, F., Cordcro, A., Roncel, M., Sánchez, E., Vargas, M., Fernández, M., Weckesser, J. and Serrano, A. 2002. Characterization of a photosynthetic *Euglena* strain isolated from an acidic hot mud pool of a volcanic area of Costa Rica. *FEMS Microbiol. Ecol.* 42, 151-161
- 19.-Sittenfeld, A. Espinoza, A.M. 2002. Costa Rica: Revealing data on public perception of GMO crops. *Trends in Plant Science* 17, 468-470
- 20.-Sánchez, E., M. Vargas, M. Mora, J.M. Ortega, A. Serrano, E. Freer y A. Sittenfeld. 2002. Descripción ultraestructural de un euglenoide (Euglenophyceae) tolerante a altas temperaturas y bajo pH aislado de las Pailas de Barro del Volcán Rincón de la Vieja, Guanacaste, Costa Rica. *Rev. Biol. Trop.* In press