

Curriculum Vitae, August 2010

**Alina Freire-Fierro**

Collection Manager, Botany Department

Academy of Natural Sciences, Philadelphia PA 19103, U.S.A., www.ansp.org  
Telephone: 215-299-1157; fax 215-299-1028, e-mail: freirefierro at ansp dot org  
Born in Ecuador, 1964; US Citizen

**EDUCATION**

- 2010- Ph.D. studies in Plant Systematics. College of Arts and Sciences, Drexel University, Philadelphia. Advisor: Dr. Walter Bien.
- 1998 M. Sc., Department of Biology, University of Missouri-St. Louis, St. Louis, USA. Thesis title: "Revision of *Aciotis* (Melastomataceae)," 160 pp. (English). Advisor: Dr. Susanne Renner.
- 1992 M. em C., Biociências Institute, São Paulo University. Brazil. Thesis title: "Estudos taxonômicos dos subgêneros de *Monnina* Ruiz & Pav. (Polygalaceae), baseados em espécies equatorianas e brasileiras," 190 pp. (Portuguese). Advisor: Dr. Ana Maria Giuliatti.
- 1989 Bachelor's Degree in Biological Sciences, Biology Department, Catholic University. Ecuador. Bachelor's Dissertation Title: "Estudios taxonómicos de las especies arbustivas de *Monnina* en el Bosque Montano Ecuatoriano," 194 pp. (Spanish). Advisors: Dr. Peter M. Jørgensen and Dr. Jaime Jaramillo.

**ADDITIONAL GRADUATE COURSES**

- 1996 Plant Systematics, Organization for Tropical Studies. June to August. Costa Rica.
- 1993 Botanical Diversity in Tropical Forests, European Summer School, Aarhus University. July. Denmark.
- 1991 Theory and Methods in Vegetal Taxonomy, Latin American Botanical Network. November. Argentina.
- 1989 Latin American and Caribbean Botanical Workshop, Smithsonian Institution. July to August. USA.

**PROFESSIONAL EXPERIENCE**

- 2006- Collection Manager, Botany Department, Academy of Natural Sciences, Philadelphia
- 2006-2008 Co-PI, NSF Project on Virtual Types at the Academy of Natural Sciences Herbarium, NSF Grant # #0545170.
- 2002-2006 Research Specialist and Latin American Research Visitors' Liaison, Missouri Botanical Garden.
- 2001 Assistant Coordinator of the project "Floristic Inventory and Rescue of native plants from Oleoductos de Crudos Pesados." Ecuadorian National Herbarium-Entrix-OCP. Quito, Ecuador.
- 2000 Organizer (with David Neill) of the Third Ecuadorian Botanical Congress, Quito, October 25 to 27.
- 2000 Teacher of Systematic Botany, College of Life Sciences, San Francisco University, Quito, Ecuador.
- 1999-2000 Coordinator of the Library and Databases, QCNE Herbarium, Quito, Ecuador.
- 1999-2000 Teacher of General Botany, and Flora of Ecuador. Ecotourism Majors, Catholic University, Quito, Ecuador.
- 1999-2000 Adjunct Researcher of the project Floristic Inventories of Llanganates National Park. Ecuadorian National Herbarium-ECOCIENCIA, Quito, Ecuador.
- 1998-99 Adjunct Researcher of the project Flora and Vegetation of the Antisana Ecological Reserve and Llanganates National Park. INEFAN-GEF-Ecuadorian National Herbarium, Quito, Ecuador.

- 1995 Teacher of General Botany, Biology Department, Catholic University, Quito, Ecuador.
- 1992-94 Main Researcher of the project Taxonomy of Crassulaceae and Saxifragaceae s.l. for the Series *Flora of Ecuador*. Aarhus University-Catholic University, Denmark-Ecuador.
- 1993 Scientific Consultant of the Second Edition of the book “Las Plantas Medicinales del campo,” from Brij Kothari. ABYA-YALA Press, Quito, Ecuador.
- 1992 Assistant Teacher of the courses: Taxonomy of Vascular Plants, and Systematics and Taxonomy of Angiosperms, Biology Department, Catholic University, Quito, Ecuador.
- 1989 Adjunct Researcher of the project “Botanical Studies of the Ecuadorian Mountain Forest,” QCA Herbarium, Catholic University, Quito, Ecuador.
- 1988 Assistant Researcher of the project “Botanical Studies of the Ecuadorian Mountain Forest,” QCA Herbarium, Catholic University, Quito, Ecuador.
- 1984-88 Herbarium Assistant at the QCA Herbarium, Catholic University, Quito, Ecuador.

## PUBLICATIONS

### *In Press*

- Freire-Fierro, A. Crassulaceae for the Catalogue of Vascular Plants of Bolivia. Missouri Botanical Garden.
- Freire-Fierro, A. Grossulariaceae for the Catalogue of Vascular Plants of Bolivia. Missouri Botanical Garden.
- Freire-Fierro, A. Grossulariaceae. *Libro rojo de las plantas endémicas del Ecuador 2005, II Edition* Herbario QCA, Pontificia Universidad Católica del Ecuador, Quito.
- Freire-Fierro, A. Hydrangeaceae for the Catalogue of Vascular Plants of Bolivia. Missouri Botanical Garden.
- Freire-Fierro, A. Polygalaceae for the Catalogue of Vascular Plants of Bolivia. Missouri Botanical Garden.
- Freire-Fierro, A. Polygalaceae. *Libro rojo de las plantas endémicas del Ecuador 2005, II Edition* Herbario QCA, Pontificia Universidad Católica del Ecuador, Quito.
- Freire-Fierro, A. Saxifragaceae for the Catalogue of Vascular Plants of Bolivia. Missouri Botanical Garden.
- Freire-Fierro, A. Saxifragaceae. *Libro rojo de las plantas endémicas del Ecuador 2005, II Edition* Herbario QCA, Pontificia Universidad Católica del Ecuador, Quito.

### *Submitted*

- Freire-Fierro, A. Hydrangeaceae for the Catalogue of Vascular Plants of Antioquia, Colombia.
- Freire-Fierro, A. Polygalaceae for the Catalogue of Vascular Plants of Antioquia, Colombia.
- Freire-Fierro, A. Saxifragaceae for the Catalogue of Vascular Plants of Antioquia, Colombia.

### *In progress*

- Freire-Fierro, A. and A. Landale. North American *Polygala* (Polygalaceae) in the Thomas Nuttall collection at the Academy of Natural Sciences, Philadelphia (PH) Proceedings of the Academy of Natural Sciences of Philadelphia.
- Freire-Fierro, A. Systematic Treatment of *Monnina* (Polygalaceae) for Flora Neotropica.
- Freire-Fierro, A. Crassulaceae for the Catalogue of Vascular Plants of the Southern Cone.
- Freire-Fierro, A. *Monnina* (Polygalaceae) for the Catalogue of Vascular Plants from Colombia.
- Freire-Fierro, A. Grossulariaceae for the Catalogue of Vascular Plants from Colombia.
- Freire-Fierro, A. and A. Landale. New World *Polygala* (Polygalaceae) at the PH Herbarium, Nomenclatural notes (for the Proceedings of the Academy of Natural Sciences).

## TAXONOMIC AND FLORISTIC PUBLICATIONS

- Freire-Fierro, A. 2008. Crassulaceae. En: Zuloaga, F., O. Morrone, y M. J. Belgrano (eds.). Catálogo de las Plantas Vasculares del Cono Sur. Monographs of Systematic Botany 107. Missouri Botanical Garden. St. Louis, USA.
- Freire-Fierro, A. y F. Pastore. 2008. Polygalaceae. En: Zuloaga, F., O. Morrone, y M. J. Belgrano (eds.). Catálogo de las Plantas Vasculares del Cono Sur. Monographs of Systematic Botany 107. Missouri Botanical Garden. St. Louis, USA.
- Freire-Fierro, A. 2008. Filadelfia y la Botánica en Norteamérica. *Bol. Soc. Argent. Bot.* 43 (1-2): 179-187.
- Freire-Fierro, A. 2002. Proposal to conserve *Ribes leptostachyum* Benth. against *Ribes leptostachyum* Decne. *Taxon* 51(1): 195.
- Freire-Fierro, A. 2002. A new species of *Ribes*, notes and a key of the Ecuadorian Species. *Systematic Botany* 27(1): 14--19.
- Freire-Fierro, A., D. Fernández y C. Quintana. 2002. Usos de Melastomataceae en el Ecuador. *Sida* 20(1) 233—260.
- Freire-Fierro, A. 2001. Two new species of *Aciotis* (Melastomataceae). *Novon* 11(2): 166-170.
- Freire-Fierro, A. 2001. *Aciotis*, Melastomataceae. In: Flora of the Venezuelan Guayana, Vol. 6: 270-276. *Monographs in Systematic Botany of the Missouri Botanical Garden*.
- Vargas, H., D. Neill, M. Asanza, **A. Freire-Fierro** y E. Narváez. 2001. *Flora y Vegetación del Parque Nacional Llanganates*. EcoCiencia-Herbario Nacional del Ecuador/GEF.
- Freire-Fierro, A. 2000. Polygalaceae. Pages 392-393 In: Valencia, R., N. Pitman, S. León-Yáñez & P. M. Jørgensen (eds.) *Libro rojo de las plantas endémicas del Ecuador 2000*. Herbario QCA, Pontificia Universidad Católica del Ecuador, Quito.
- Freire-Fierro, A. 2000. Grossulariaceae. Page 214 In: Valencia, R., N. Pitman, S. León-Yáñez & P. M. Jørgensen (eds.) *Libro rojo de las plantas endémicas del Ecuador 2000*. Herbario QCA, Pontificia Universidad Católica del Ecuador, Quito.
- Freire-Fierro, A. 1999. Crassulaceae In: Jørgensen, P. M. & S. León (eds.). Catalogue of the Vascular Plants of Ecuador. *Monographs on Systematic Botany from the Missouri Botanical Garden* 75: 413-414.
- Freire-Fierro, A. 1999. Grossulariaceae In: Jørgensen, P. M. & S. León (eds.). Catalogue of the Vascular Plants of Ecuador. *Monographs on Systematic Botany from the Missouri Botanical Garden* 75: 507-508.
- Freire-Fierro, A. 1999. Hydrangeaceae In: Jørgensen, P. M. & S. León (eds.). Catalogue of the Vascular Plants of Ecuador. *Monographs on Systematic Botany from the Missouri Botanical Garden* 75: 514.
- Freire-Fierro, A. 1999. Saxifragaceae In: Jørgensen, P. M. & S. León (eds.). Catalogue of the Vascular Plants of Ecuador. *Monographs on Systematic Botany from the Missouri Botanical Garden* 75: 891.
- Freire-Fierro, A. 1998. Two new species of *Ribes* (Grossulariaceae) from South America. *Novon* 4: 354-358.
- Freire-Fierro, A. 1998. Revision of *Aciotis* (Melastomataceae). *Am. J. Bot. (Suppl.)* 85 (6): 129.
- Freire-Fierro, A., P. Naranjo, et al. 1995. 270 *Plantas medicinales Iberoamericanas*, In Gupta, M. (ed.). Convenio Andrés Bello, Bogotá.
- Freire-Fierro, A. 1995. Book Review of *Amazonian Ethnobotanical Dictionary*, published by James Ducke & Rodolfo Vásquez. *Economic Botany* 49 (1): 111.
- Freire-Fierro, A. 1995. Especies medicinales sudamericanas de Polygalaceae. In: Naranjo, P. & R. Escaleras (eds.): *La medicina tradicional en el Ecuador*, Memorias de las Primeras Jornadas Ecuatorianas de Etnomedicina Andina. Biblioteca Ecuatoriana de Ciencias. Vol. 2. Corporación Editora Nacional, Quito.

Freire-Fierro, A. 1993. The genus *Ribes* (Grossulariaceae) in Ecuador. In: Balslev, H. (ed.). Neotropical Montane Forests, Biodiversity and Conservation. *AAU Reports* 31.

### BOOKS, MONOGRAPHS, FLORAS

- Freire-Fierro, A. 2004. *Botánica Sistemática Ecuatoriana*. Missouri Botanical Garden, FUNDACYT, QCNE, RLB and FUNBOTANICA. Murray Print, St. Louis. 209 pp.
- Freire-Fierro, A. 2004. 115. Crassulaceae. In: G. Harling and L. Andersson (eds.), *Flora of Ecuador* 73: 3-16.
- Freire-Fierro, A. 2004. 117 A. Saxifragaceae. In: G. Harling and L. Andersson (eds.), *Flora of Ecuador* 73: 17-24.
- Freire-Fierro, A. 2004. 117 B. Grossulariaceae. In: G. Harling and L. Andersson (eds.), *Flora of Ecuador* 73: 41-66.
- Romoleroux, K. & A. Freire-Fierro. 2004. 117 C. Escalloniaceae. In: G. Harling and L. Andersson (eds.), *Flora of Ecuador* 73: 67-84.
- Freire-Fierro, A. 2004. 117 D. Hydrangeaceae. In: G. Harling and L. Andersson (eds.), *Flora of Ecuador* 73:25-40.
- Freire-Fierro, A. 2004. 117 E. Phyllonomaceae. In: G. Harling and L. Andersson (eds.), *Flora of Ecuador* 73:85-86.
- Freire-Fierro, A. 2002. Revision of *Aciotis* (Melastomataceae). *Systematic Botany Monographs* 62: 1--99 pp.

### EDITED WORKS

- Freire-Fierro, A. y D. Neill (eds). 2002. *La Botánica en el Nuevo Milenio*, Memorias del III Congreso Ecuatoriano de Botánica. Herbario Nacional del Ecuador and FUNBOTANICA.
- Asanza, M., A. Freire-Fierro, D. Neill, S. Sandoval y J. C. Welling (eds.) 2000. *Resúmenes del III Congreso Ecuatoriano de Botánica*. FUNBOTANICA y Herbario Nacional del Ecuador QCNE. Imprenta Hojas y Signos. Quito.
- Freire-Fierro, A. y M. Asanza (eds). 1999. *VIII Boletín de FUNBOTANICA*. FUNBOTANICA. Imprenta Hojas y Signos. Quito.
- Freire-Fierro, A., C. Josse y D. Neill (eds). 1999. *VII Boletín de FUNBOTANICA*. FUNBOTANICA. Imprenta Hojas y Signos. Quito.
- Ríos, M., A. Freire-Fierro, & K. Romoleroux (eds). 1995. *II Boletín de FUNBOTANICA*. Quito.
- Freire-Fierro, A., & R. Valencia (eds). 1993. *I Boletín de FUNBOTANICA*, Directorio de miembros y colaboradores. Quito.

### REVIEWER FOR

Brittonia, Flora Fanerogâmica do Estado de São Paulo, Lundellia, Novon, Sida, Taxon, Boletín Latinoamericano de Etnobotánica, and Spanish Edition of the International Code of Botanical Nomenclature.

### DISTINCTIONS AND FELLOWSHIPS

- 2006- Research Associate, Missouri Botanical Garden, St. Louis, USA.
- 2000-02 Research Associate, Missouri Botanical Garden, St. Louis, USA.
- 2000-01 Research Associate, Economic Botany Herbarium QUSF, San Francisco University, Quito, Ecuador.
- 1998-99 Honorary Member of the Missouri Botanical Garden
- 1995-98 Graduate Fellowship from the Science and Technology Ecuadorian Foundation (FUNDACYT). Ecuador.

- 1989 Master's Graduation "Cum Laude", São Paulo University, Brazil.  
1989-92 Graduate Fellowship from the Latin American Botanical Network. Brazil.  
1984-1988 Undergraduate Studentship from Catholic University, Ecuador.

### **FIELD EXPERIENCE**

North America: New Jersey (Pine Barrens), Pennsylvania (Poconos), New York, Utah

Central America: Costa Rica

South America: Argentina (Subtropical habitats, cerrado vegetation); Bolivia (Cerrado vegetation); Brazil (Caatinga, Cerrados and Campos Rupestres), Colombia (Andes and lowlands), Ecuador (Pacific and Amazonian lowlands, highlands and paramos); Uruguay (dry forest and wetlands);

Europe: Austria (Serpentine vegetation), Norway.

### **SINERGISTIC ACTIVITIES**

- 2008- Steering Committee Member, Membership Chapter, Consortium of Northeastern Herbaria, USA-Canada.  
2008- Corresponding Secretary, Philadelphia Botanical Club  
2004- Creation/Administration of the Discussion list, Anuncios Botánicos, <http://espanol.groups.yahoo.com/group/Anunciosbotanicos/>  
2003-2006 Administration/Content Compilation of the website for the Association of Latin American Botanists, [www.botanica-alb.org](http://www.botanica-alb.org)  
2002- Administration/Content Compilation of a webpage about Polygalaceae. [www.neotropicos.net/Polygalaceae](http://www.neotropicos.net/Polygalaceae)  
1999-2009 Administration/Content Compilation of the website of the Ecuadorian Foundation for Research and Development of Botany, FUNBOTANICA, [www.funbotanica.org](http://www.funbotanica.org)  
1998-2002 Representative for Ecuador for the Latin American Botanical Association (ALB).  
1999-2000 Executive Director of the Ecuadorian Foundation for Research and Development of Botany, FUNBOTANICA, Ecuador.  
1995 President of the Ecuadorian Foundation for Research and Development of Botany, FUNBOTANICA, Ecuador.

### **DISSEMINATION DOCUMENTS**

- 2002-2006 Editor, News from MO, Missouri Botanical Garden. <http://www.mobot.org/MOBOT/Research/publications.shtml>  
2003-2006 Content Compilation, Visitor's Guide website <http://www.mobot.org/MOBOT/Research/visitors/visitors.shtml>  
2004-2006 Content Compilation, Missouri Botanical Garden's Annual Systematics Symposium website, and booklet of abstracts <http://www.mobot.org/MOBOT/research/symposium/welcome.shtml>

### **SOCIETY MEMBERSHIPS**

- 2006- Philadelphia Botanical Club  
1998- International Association for Plant Taxonomy  
1997- American Society of Plant Taxonomy  
1987- Association for Latin American Botanists, ALB  
1988- Ecuadorian Foundation for Research and Development of Botany, FUNBOTANICA  
1997-98 Botanical Society of America

- 1997-98 Association for Tropical Biology  
1989-92 Brazilian Botanical Society

### MEETINGS ATTENDED

- 2009 BSA Meetings, Snow Bird, Utah, U.S.A.  
2008 LAPI Meetings, Buenos Aires, Argentina  
2007 XXXI Jornadas Argentinas de Botánica, September, Corrientes, Argentina  
2006 AAAS Meetings, February, St. Louis, U.S.A.  
2005 XVII International Botanical Congress, July, Vienna, Austria.  
2002 VIII Congreso Latinoamericano de Botánica, Cartagena de Indias, October, Colombia.  
2000 III Congreso Ecuatoriano de Botánica, October, Quito, Ecuador (Co-organizer).  
1999 XVI International Botanical Congress, August, St. Louis, USA.  
1998 VII Congreso Latinoamericano de Botánica, Latin American Botanical Association, Latin American Botanical Network, Mexican Botanical Society, October, México.  
1998 American Institute of Biological Sciences (AIBS) Meetings, American Society of Plant Taxonomists, Baltimore, August, USA.  
1994 VI Congreso Latinoamericano de Botánica, Latin American Botanical Association, October, Mar del Plata, Argentina.  
1994 I Jornadas Ecuatorianas de Etnomedicina, OPS-OMS, UNICEF, CONACYT, Universidad Andina Simón Bolívar, February, Quito, Ecuador.  
1991 XVII Jornadas Ecuatorianas de Biología, Sociedad Ecuatoriana de Biología, Universidad Central del Ecuador, February, Quito, Ecuador.  
1993 Nordic Symposium on Neotropical Botany, Bergen University, August, Norway.  
1993 I Congreso Ecuatoriano de Botánica, Catholic University, February, Quito, Ecuador.  
1993 Neotropical Montane Forest Symposium, New York Botanical Garden, June, New York, USA.  
1992 XVI Jornadas Ecuatorianas de Biología, Sociedad Ecuatoriana de Biología, Universidad del Azuay, November, Cuenca, Ecuador.  
1992 XLIII Congreso Brasileiro de Botánica, Sociedad Brasileira de Botánica, Universidad Federal de Sergipe, January, Aracajú, Brazil.  
1991 XLII Congreso Brasileiro de Botánica, Sociedad Brasileira de Botánica, Universidad Federal de Goiás, January, Goiás, Brazil.  
1990 XLI Congreso Brasileiro de Botánica, Sociedad Brasileira de Botánica, Universidad Federal do Ceará, January, Fortaleza, Brazil.

### ABSTRACTS

- Freire-Fierro, A. & A. Landale. 2009. North American Polygala (Polygalaceae) and Nuttall: A nomenclatural tale. Botanical Society of America Meetings. Abstracts. July.  
Freire Fierro, A. 2005. Revision of *Monnina*. XVII International Botanical Congress, Abstracts. July.  
Freire Fierro, A. & R. Ferreyra. 1999. Generic delimitation of *Monnina* (Polygalaceae). XVI International Botanical Congress, Abstracts: 428. August 1-7.  
Freire Fierro, A. 1998. Revisión del género Neotropical *Aciotis* (Melastomataceae). Resúmenes del VII Congreso Latinoamericano de Botánica: 304. México, October 18-24.  
Freire Fierro, A. 1994. Estudios taxonómicos de *Saxifraga*, *Ribes* e *Hydrangea* (Grossulariaceae) en el Ecuador. Resúmenes del VI Congreso Latinoamericano de Botánica. Mar del Plata, October 2- 8.  
Freire Fierro, A. 1993. Saxifragaceae s.l. en el Ecuador y clave para las especies ecuatorianas de *Ribes*. Resúmenes de las XVII Jornadas Nacionales de Biología. Quito, November 25 – 27.  
Freire Fierro, A. 1993. *Ribes* (Saxifragaceae) del Ecuador. In: Valencia, R. & K. Romoleroux (eds.). Trabajos en Botánica del Ecuador, Primer Congreso de Botánica, Quito.

- Freire Fierro, A. 1992. Taxonomia e validade da divisão infragenérica de *Monnina* (Polygalaceae) sensu Chodat 1896. Resumos do XLIII Congresso Brasileiro de Botânica, Aracajú, Enero 19 – 25.
- Freire Fierro, A. 1991. Longevidade floral e protrandria de *Monnina richardiana* St. Hil. (Polygalaceae). Resumos do XLII Congresso Brasileiro de Botânica, Goiânia, Enero 20 – 26.
- Freire Fierro, A. 1990. O gênero *Monnina* (Polygalaceae) da floresta montana Equatoriana. Resumos do XLI Congresso Brasileiro de Botânica, Fortaleza, Enero 21 – 27

### **PRACTICAL KNOWLEDGE**

Word, Excel, Access, Power Point, Adobe PhotoShop (both, PC and Mac); Page Maker (Macintosh); HyperEdit; Hypertaxonomy, TROPICOS.

Fluent in Spanish (Native language), Portuguese, and English.

### **HOBBIES**

Martial arts (Aikido, Shindo Muso Ryu), kickboxing, outdoor activities, urban gardening, community activism.