

Carmen R. García-Dávila

Address: Urbanización Santa Sofía # B-14, Iquitos, Perú

Phone: 0051 (65) 262407/9609245

e-mail : cdavila19@yahoo.com

SUMMARY OF QUALIFICATIONS:

- Experience working with molecular markers (RAPD, PCR-RFLP, ISSR); sequenciament, genes expression and genetic of populations. Experience on analysis and processing of molecular data.
- Intensive field experience on ecology, biology, taxonomy and molecular genetics of Amazonian shrimp and fishes.

EDUCATION

Post Graduate:

- Doctoral Degree in Biological Science. Major: Molecular genetic. Universidade federal do Amazonas, Instituto Nacional de Pesquisas da Amazônia (INPA). Manaus, Brasil (1998, 2002).
- Master of Science in Biology. Major: Biology of fresh water and continental fisheries. Universidade federal do Amazonas, Instituto Nacional de Pesquisas da Amazônia (INPA). Manaus, Brasil (1996-1998).

Undergraduate:

- Biologist. Universidad Nacional de la Amazonía Peruana, Department of Biology. Iquitos, Perú.
- High School Professor. Major: Biology and Chemistry. Universidad Nacional de la Amazonía Peruana, Department of Education and Humanities. Iquitos, Perú.

Academic Degrees:

- B.S. in Biological Sciences. Universidad Nacional de la Amazonía Peruana, Department of Biology. Iquitos, Perú (1992-1995).
- B.S. in Education. Universidad Nacional de la Amazonía Peruana, Department of Education and Humanities. Iquitos, Perú (1982-1987).

WORK EXPERIENCE

- 2005 - Present. Boss of the Laboratory of Molecular Biology and Biotechnology- LBMB. Instituto de Investigaciones de la Amazonia Peruana- IIAP, Iquitos, Peru.
- 2002 - 2004 Research of the Biodiversity Program. Instituto de Investigaciones de la Amazonía Peruana - IIAP, Iquitos, Peru.
- 1998-2002. Doctorate student. Instituto Nacional de Pesquisas da Amazônia (INPA). Manaus, Brasil.

- 1996-1997. Master student. Instituto Nacional de Pesquisas da Amazônia (INPA). Manaus, Brasil.
- 1987-1995. High School Professor in Biology and Chemistry

RESEARCH PROJECTS UNDER DEVELOPMENT

- Variations of performances piscícolas of *Pseudoplatystoma fasciatum* and *P. tigrinum* in connection with the progenitors.
- Molecular identification of larvae of big catfish in the basin of the rivers Nanay and Marañon.
- Population genetic variability of the arahuana *Osteoglossum bicirrhosum* in the Peruvian Amazon.
- Molecular genetic variability of the camu-camu in natural populations in the Peruvian Amazon.
- Molecular genetic relationship of aguaje *Mauritia Fleuxosa* coming from three towns of the Peruvian Amazon..

WORK TESES:

- **GARCIA-DAVILA, CR** (2002). Morphometric and molecular comparative studio of the populations of *Palaemonetes carteri* (Gordon, 1935) and *Palaemonetes ivonicus* (Holthuis, 1950) (Decapoda: Palaemonidae) in the Amazonian. INPA/FUA. 195p.
- **GARCIA-DAVILA, CR** (1998). Taxonomic Revision of the fresh water shrimp de (Crustacea: Decapoda: Palaemonidae, Sergestidae) from the Amazon Peruvian. INPA/FUA. 62p.
- **GARCIA-DAVILA, CR** (1995). Reproductive biology of the shrimp *Macrobrachium brasiliense* in aquatic environment of the road Iquitos - Nauta.). UNAP/IIAP. 58p.

SCIENTIFIC PUBLICATIONS :

- N. Hubert, F. Duponchelle, J. Nuñez, C. Garcia-Davila, D. Paugy, J.-F. Renno 2007. Phylogeography of the piranha genera *Serrasalmus* and *Pygocentrus*: implications for the diversification of the Neotropical ichthyofauna. *Molecular Ecology* 16(10) 2115-2136.
- J.-F. Renno, N. Hubert, J.P. Torrico, F. Duponchelle, J. Nunez Rodriguez, **C. Garcia Davila**, S.C. Willis and E. Desmarais. 2006. Phylogeography of *Cichla* (Cichlidae) in the Upper Madera basin (Bolivian Amazon). *Molecular phylogenetics and Evolution*, 41(2): 503-510

- Renno, J.F.; **García-Dávila, CR.**; Duponchelle, F.; Nuñez, J. (Editores) 2005. Biology of fish population in the Amazon and fish farmer. *Tarea Asociación Grafica Educativa*, Lima, 258pp.

- **García-Dávila, CR.**; Magalhães, C.; Hurtado, C. 2005. Morphometric variability in seven populations of *Palaemonetes carteri* Gordon, 1935, and *Palaemonetes ivonicus* Holthuis, 1950 (Crustacea: Decapoda: Palaemonidae) from the Amazon Basin. *Journal Iheringia series Zoology*, 95(3):327-334.

- Batista, J.; **García-Dávila, CR.**; Marão-Siqueira, T.; Castro, D.; Chota, W.; Formiga- Aquino, K.; Alves-Gomes, JA. 2005. Genética populacional da dourada - *Brachyplatystoma rousseauxii* (Pimelodidae - Siluriformes) na Amazônia Brasileira e Peruana. *In: J.F. Renno; C. García-Dávila, F. Duponchelle, J. Nuñez (Eds.) Biología de las Poblaciones de peces de la Amazonía Peruana.* 123 - 128 p.

- **García- Dávila, CR.**; Torrico, J.P.; Desmarais, E.; Duponchelle, F.; Nuñez, J.; Renno, J.F.2005. Filogeografía de *Colossoma macropomum* y *Piaractus brachypomus* en la Alta Amazonía (Perú y Bolivia). *In: J.F. Renno; C. García-Dávila, F. Duponchelle, J. Nuñez (Eds.) Biología de las Poblaciones de peces de la Amazonía Peruana.* 129 - 134 p.

- Torrico, J.P.; **García- Dávila, CR.**; Desmarais, E.; Nuñez, J.; Duponchelle, F.; Renno J.F. 2005. Filogeografía comparada de especies de los géneros *Pseudoplatystoma*, *Colossoma*, *Piaractus*, *Cichla* y *Pygocentrus* en el Alto Madera. *In: J.F. Renno; C. García-Dávila, F. Duponchelle, J. Nuñez (Eds.) Biología de las Poblaciones de peces de la Amazonía Peruana.* 144 - 147 p

- **GARCIA-DAVILA, C. R.**; MAGALHÃES, C. 2003. Taxonomic of the fresh water shrimp (Crustacea: Decapoda: Palaemonidae, Sergestidae) from the Peruvian Amazon. *Acta Amazonica*, 34(4): 663-686.

- WAISCHMAN, A.V.; **GARCIA-DAVILA, C.R.**; ROBERTSON, B. & HARDY, R.E. 2002. Composition of the zooplankton in different environments of Camaleão lake. *Acta Amazonica*. 32(2):123 - 132.

- **GARCIA-DAVILA, C.R.**; ALCANTARA, B.F.; VASQUEZ, R.E. & CHUJANDAMA, S.M. 2000. Reproductive biology of the shrimp *Macrobrachium brasiliense* (Heller, 1862) (Crustacea: Decapoda: Palaemonidae) in aquatic environment from the Peruvian Amazon. *Acta Amazonica*, 30(4):653-664.

- VASQUEZ, E.; CHUJANDAMA, M.; **GARCIA, C.** & ALCANTARA, F. 2000. Characterization of the habitat of the shrimp *Macrobrachium brasiliense* in the road Iquitos-Nauta. *Folia Amazonica*, 10(2-3)57 - 71.

PAPERS PRESENTED IN SCIENTIFIC MEETINGS:

- **García-Dávila CR**, Batista J, Marão-Siqueira T, Castro D, Chota W, Formiga-Aquino K & Alves-Gomes JA (2005). Genetic population of the "dourada - *Brachyplatystoma rousseauxii*" (Pimelodidae - Siluriforme), from the Peruvian Amazon. XV Workshop of Brazilian genetic, Brazil.
- Formiga-Aquino K, **García-Dávila CR**, Batista J, Marão-Siqueira T, Castro D, Chota W & Alves-Gomes JA (2005) Analysis of the nucleotic variability of the Piramutaba (*Brachyplatystoma vaillantii*), in the Brazilian and Peruvian Amazon. . XV Workshop of Brazilian genetic, Brazil.
- **García-Dávila CR**, Torrico JP, Desmarais E, Duponchelle F, Nuñez Rodrigo J. & Renno JF (2005). Phylogeografic of *Colosssoma macropomum* and *Piaractus brachypomus* in the Peruvian and Bolivian Amazon. Workshop International "Biology of the populations of Amazon fish and fishfarmer, Iquitos, Peru.
- Sandoval M, **García-Dávila CR**, Yuto JA, García JC, Castro D. & Chota W. (2005). Protein fingerprinting of *Arapaima gigas* "paiche". Workshop International "Biology of the populations of Amazon fish and fishfarmer, Iquitos, Peru.
- Sandoval M, Yuto JA, Padilla P, **García-Dávila CR** (2005). Growth of young of paiche *Arapaima gigas*, in captivity and feeding with fishes. Workshop International "Biology of the populations of Amazon fish and fishfarmer, Iquitos, Peru.
- Torrico JP, **García-Dávila CR**, Desmarais E, Nuñez J, Duponchelle F & Renno JF (2005) Comparative phylogeografic of species of the genera *Pseudoplatystoma*, *Colossoma*, *Piaractus*, *Cichla* y *Pygocentrus* in the high Madera. Workshop International "Biology of the populations of Amazon fish and fishfarmer, Iquitos, Peru.
- **García-Dávila, CR** (2005). Estimation of the populational genetic variability of *Brachyplatystoma flavicans* Castelnau, 1855 (Pimelodidae - Siluriforme) in the Peruvian Amazon. Workshop of project PIRADA, Manaus, Brazil.
- **García-Dávila, CR**; Magalhães, C; Alves-Gomes, J; Porto, J. (2003) phylogeografic of *Palaemonetes carteri* (Gordon, 1935) and *Palaemonetes ivonicus* Holthuis, 1950 in the Amazon basin. IV Amazon Genetic Meeting. Manaus, Brasil.

- **GARCIA-DAVILA, C.R.; PORTO, R.J.I. & MAGALHÃES, C. (2002).** Use of sequences of mitochondrial DNA (COI) in the characterization of two cryptic species of shrimp from the Amazon basin: *Palaemonetes carteri* and *P. ivonicus*. XXIV Brazilian Congress of Zoology. Itajaí, Santa Catarina, Brazil.
- **GARCIA-DAVILA, C.R. & MAGALHÃES, C. (2002).** Morfometric variability in seven populations of shrimps of genera *Palaemonetes* (Decapoda: Palaemonidae) from the Amazon basin. XXIV Brazilian Congress of Zoology. Itajaí, Santa Catarina, Brazil.
- **García-Dávila, CR. 2002.** Problems that limited the investigations with molecular markers in the Peru. Meeting "Applications of the molecular markers in the conservation and management of the Agrobiodiversity, Lima, Peru.
- **García-Dávila, CR. 2002.** Genetic Characterization of Amazon shrimps. I Peruvian Congress of Animal Genetics, Lima-Peru.
- **GARCIA, D.C.R. & MAGALHÃES, C. (2001)** Populational Structure of *Macrobrachium brasiliense* (Decapoda: Palaemonidae) in the short river Peña Negra - Iquitos - Peru. 7th Special Meeting of the SBPC. Manaus, Brazil.
- **GARCIA, D.C.R. & MAGALHÃES, C. (2000).** Morfometric variations of three species of fresh water shrimp of genera *Macrobrachium* (Decapoda: Palaemonidae) from the Central Amazon, Brazil. I Brazilian Congress on Crustaceans. São Pedro, São Paulo, Brazil.
- **GARCIA, CR & MAGALHÃES, C. (2000).** Taxonomic revision of fresh water shrimps (Crustacea: Palaemonidae, Sergestidae) from the Peruvian Amazon. XXIII Brazilian Congress of Zoology. Cuiabá, Mato Grosso, Brazil.

HONORS AND AWARDS:

- "Rodolpho Von Ihering Price" awarded by the Brazilian Society of Zoology for performing the best doctoral research thesis in the area of zoology from November, 2001 to November, 2003.
- Doctoral Graduate Scholarship Awarded by the Conselho Nacional de Pesquisa - CNPq/Brazil, to study at the Instituto Nacional de Pesquisas Amazônicas - INPA/Brazil. Period 1998-2002.

- Master of Science Graduate Scholarship Awarded by the Consejo Nacional de Pesquisa - CNPq/Brasil, to study at the Instituto Nacional de Pesquisas Amazónicas - INPA/Brasil. Period 1996-1997.