

LUIS DANIEL MOREIRA DA COSTA

CURRICULUM VITAE

DECEMBER 06

PERSONAL INFORMATION

NAME MOREIRA DA COSTA, LUIS
Birthday 2nd of December of 1969
Marital status Single
Address Rua dos Castelinhos 14 r/c, 1150-095 Lisboa
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PROFESSIONAL INFORMATION

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ACADEMIC EDUCATION

1989 – 1996

Graduated in Biology applied to Freshwater Ecology at Facultés Universitaires Notre Dame de la Paix de Namur (Belgium).

Monography

"Diet of both endemic clupeidae from Tanganyika Lake in its southern part: *Limnothrissa miodon* and *Stolothrissa tanganicae*" with Professors J.-C. Micha and J.-P. Descy of the Ecology Department at Facultés Universitaires Notre Dame de la Paix de Namur (Belgium) in coloboration with the LTR project (Lake Tanganyika Research, Finnida-FAO) in Zambia (from January 1995 to October 1995).

and

“Blood DNA quantification analyse from Eurasian Cyprinidae with flow cytometry technique” with Professor M.J. Collares-Pereira, Faculdade de Ciências da Universidade de Lisboa, Portugal (from January 1996 to May 1996).

PRESENT RESEARCH ACTIVITY

- PhD student with FCT Portuguese grant (SFRH/BD/12800/2003): “**Phylogeny of the “diploid” group of Barbus (Pisces, Cyprinidae) from Southern Africa**”, Faculdade de Ciências da Universidade de Lisboa, Portugal. Scientific advisors: M.J. Collares-Pereira (FCUL, Portugal) and P.H. Skelton (SAIAB, South Africa) (January 2004 – present).

PARTICIPATION IN SCIENTIFIC PROJECTS

- **African FISH-BOL Regional Working Group to barcode African fishes**, project coordinated by Ernst Swatz and Monica Mwale (SAIAB – Grahamstown) and financed by Consortium for the Barcode Of Life (CBOL Program) (Maio 2006 – present).
- **A survey of the fishes and fisheries in the Banhine National Park, Gaza province, Mozambique**, project coordinated by Roger Bills (SAIAB – Grahamstown) and financed by AWF (African Wildlife Foundation) (25 May – 10 June 2005);
- **Monitoring program of the environmental impacts of the Alqueva and Pedrogão dams**, project coordinated by Prof. M.J. Collares-Pereira and financed by Development and Infrastructure of Alqueva Company (Portugal) (December 2000 – December 2003);
- **Integration of molecular and physiological responses to contamination. Applicability to coastal environment’s biomonitoring**, coordinated by M.H. Costa (CME-IMAR) and M.J. Collares-Pereira (CBA) (POCTI/BSE/41967/2001), flow cytometry analyses (2002 – 2003);
- **Organisation of the International Symposium: *Freshwater Fish Conservation: Options for the Future***, Albufeira, Portugal (30 October – 4 November 2000);
- **Genome size and the diploid-polyploid relation in the Cyprinidae family**, project coordinated by Prof. M.J. Collares-Pereira and financed by the Science and Technology Foundation (PRAXIS XXI/BTI/14427/97) (March 1998 – March 2000);
- **Mira and Arade Drainage Plan: fish communities characterisation at reference and non-reference sites**, project coordinated by Prof. M.M. Coelho and financed by National Water Institute (May 1999 and May 2001).
- **Guadiana Drainage Plan: fish communities characterisation at reference sites and non-reference sites**, project coordinated by Prof. M.J. Collares-Pereira and financed by The National Water Institute (May 1998);
- **Water transfer project between Guadiana and Sado Drainages**, project coordinated by Prof. M.J. Collares-Pereira and financed by Development and Infrastructure of Alqueva Company (February – April 1998);
- **A conservation strategy for the *Anaecypris hispanica*, an endangered endemic fish**, project coordinated by Prof. M.J. Collares-Pereira and financed by the European Union (LIFE Program, contract nº B4-3200/97/280) (October 1997 – September 1998);
- ***Anaecypris hispanica*, an endangered endemic fish: Characterisation of the situation in Guadiana River**, project coordinated by Prof. M.J. Collares-Pereira and

financed by Development and Infra-structure Alqueva Company (December 1996 – September 1997)

SCIENTIFIC PUBLICATIONS

ACADEMIC JOURNALS - PEER REVIEWED PAPERS (6)

- Gomes-Ferreira A., Ribeiro F., **Moreira da Costa L.**, Cowx I.G. & Collares-Pereira M.J. (2005). Diet and foraging behaviour in the hybridogenetic *Squalius alburnoides* complex (Pisces, Cyprinidae) in Guadiana River Basin, Portugal. *Journal of Fish Biology*, **66** (2): 454-467.
- Pires A.M., **Moreira da Costa L.**, Alves M.J. & Coelho M.M. (2004). – Spatial variation in fish assemblage structure across the Arade basin (southern Portugal). *Cybium*, **28** (4): 357-365.
- Filipe A.F., Marques T., Seabra S., Tiago P., Ribeiro F., **Moreira da Costa L.**, Cowx I.G. & Collares-Pereira M.J. (2004). Selection of priority areas for fish conservation in the Guadiana River Basin, Iberian Peninsula. In *Conservation Biology*, **18** (1): 189-200.
- Ribeiro F., Cowx I.G., Tiago P., Filipe A.F., **Moreira da Costa L.** & Collares-Pereira M.J. (2003). Growth and reproductive traits of diploid and triploid forms of the *Squalius alburnoides* cyprinid complex in a tributary of the Guadiana River, Portugal. *Archiv für Hydrobiologie*, **156** (4): 471-484.
- Collares-Pereira M.J., Cowx I.G., Rodrigues J.A., Rogado M.L. & **Moreira da Costa L.** (1999). The status of *Anaocypris hispanica* in Portugal: problems of conserving a highly endangered Iberian species. *Biological Conservation*, **88**: 207-212.
- Collares-Pereira M.J. & **Moreira da Costa L.** (1999). Intraspecific and interspecific genome size variation in Iberian Cyprinidae and the problem of diploidy and polyploidy, with review of genome sizes within the family. *Folia Zoologica*, **48**(1): 61-76.

PAPERS IN PRESS OR SUBMITTED FOR PUBLICATION (3)

- Ribeiro F., Chaves M.L., Marques T.A. & **Moreira da Costa L.** – First records of *Ameiurus melas* (Siluriformes, Ictaluridae) in the Alqueva reservoir, Guadiana basin. *Cybium* (in press).
- Ribeiro F., Tiago P., **Moreira da Costa L.** & Collares-Pereira M.J. – A biologia dos endemismos piscícolas da Bacia do Guadiana e suas implicações conservacionistas: que futuro num cenário pós-Alqueva? TBA EDIA, (submitted).
- **Moreira da Costa L.**, Filipe A.F. & Collares-Pereira M.J. – Monitorização das populações piscícolas na futura área de regolho de Alqueva e Pedrogão e definição de áreas prioritárias de conservação. TBA EDIA (submitted).

BOOKS (2)

- Collares-Pereira M.J., Filipe A.F. & **Moreira da Costa L.** *Os Peixes da Bacia do Rio Guadiana*. [The fishes of Guadiana River] (in preparation).
- Collares-Pereira M.J., Coelho M.M., Cowx I.G. & **Moreira da Costa L.** (2000). Book of abstracts of the International Symposium 'Freshwater Fish Conservation: Options for the Future'. Lisbon, 108 pp. (220 exemplars).

SCIENTIFIC REUNION ATTENDANCES (22)

- *O papel da investigação na gestão sustentável dos ecossistemas aquáticos*, 13^{as} jornadas técnico-científicas, Instituto Nacional de Investigação Pesqueira (Angola) — 15-17 Novembro 2006
- **Moreira da Costa L.**: Peixes dulciaquícolas de Angola: ontem e hoje. E amanhã? (*oral presentation*).
- *IUCN GIS training workshop: 2006 Southern African Freshwater Conservation Assessments*, hosted by the International Institute for Geo-information and Earth Observation (ITC), the South African Institute for Aquatic Biodiversity (SAIAB), and the World Conservation Union (IUCN), Grahamstown (South Africa) — 17-21 July 2006.
- *Hotspots, Biodiversity and Conservation, South African Society for Systematic Biology VI*, Kruger Park (South Africa) — 14-17 July 2006
- **Moreira da Costa L.**, Skelton P.H. & Collares-Pereira M.J.: Phylogenetic relationships of the Chubbyhead barbs group (Teleostei, Cyprinidae) based on a morphological analysis (*poster*).
- *Integration of freshwater biodiversity in the development process throughout Africa: mobilizing information and site demonstrations*, IUCN SSC Red Data List Evaluation Workshop (EU Project Europe Aid/ENV/2004-81917), Nature Conservation Office, Jonkershoek (South Africa) — 5-9 June 2006.
- *Union des Terres de Rivières (U.TdR), Territórios Fluviais / Gestão sustentável da água*, Seminário, Tomar (Portugal) — 15-16 December 2005
- **Filipe A.F.**, Magalhães M.F., Pires A.M., Pires D., Rodrigues P., Sousa G., Ribeiro F., **Moreira da Costa L.**, Mesquita N., Carvalho C., Monteiro R., Penha F., Coelho M.M. & Collares-Pereira M.J.: Connecting science to water management policies for riverine fish conservation: Present and future challenges (*oral presentation*).
- *Biodiversity Assessment Tools for Inland Water Ecosystems in Southern Africa*, IUCN SSC Training Workshop, SAIAB, Grahamstown (South Africa) — 19-22 May 2005.
- *XI European Congress of Ichthyology, ECI XI*, Tallinn (Estonia) — 6-10 September 2004
- **Ribeiro F.**, **Moreira da Costa L.** & Collares-Pereira M.J.: Habitat Use and Association of native and non-native fishes in the Guadiana Basin, Portugal (*oral presentation*);
- **Gomes-Ferreira A.**, **Ribeiro F.**, **Moreira da Costa L.**, Cowx I.G. & Collares-Pereira M.J.: Variability in diet and foraging behaviour between sexes and ploidy forms of the asexual *Squalius alburnoides* complex (*poster*);
- **Pires A.M.**, **Moreira da Costa L.**, **Alves M.J.** & **Coelho M.M.**: Fish assemblage structure across the Arade basin (southern Portugal) (*poster*);
- **Botelho S.**, **Moreira da Costa L.**, **Gordo L.** & **Collares-Pereira M.J.**: Life history traits of the river-blenny *Salaria fluviatilis* in the Guadiana basin, Portugal (*poster*).
- *XII Conference of the Spanish limnology association – IV Iberian conference of limnology*, Porto (Portugal) — 5-9 July 2004
- **Ribeiro F.**, **Moreira da Costa L.**, **Chaves M.L.** & **Marques T.M.**: North American black bullhead catfish in a new reservoir – a successful colonizer into Portuguese waters (*oral presentation*).

- *All Catfish Species Inventory Workshop*, SAIAB, Grahamstown (South Africa) — 14-17 June 2004.
- *Distribution, taxonomic and genetic status of European species of the genus Gobio*, Brno (Czech Republic) — September 2003
- Lonský P., Ráb P., Rábova M., **Moreira da Costa L.** & Collares-Pereira M.J.: Cytogenetics and cytotaxonomy of gobionine cyprinids: karyotypes, NOR phenotypes and DNA contents (*oral presentation*).
- *2º Encontro dos Trabalhos em Biologia no Alqueva – Conservação da Natureza em Alqueva – Ponto de Situação Três Anos Depois*, Évora (Portugal) — 3-4 October de 2003
- Ribeiro F., **Moreira da Costa L.**, Tiago P., Filipe A.F. & Collares-Pereira M.J.: Estudos de biologia e ecologia de peixes dulciaquícolas na área de regolfo de Alqueva e Pedrógão (*oral presentation*).
- *5th Iberian Congress and 2nd Iberoamerican on Environmental Contamination and Toxicology – Environmental problems in an Iberoamerican context*, Porto (Portugal) — 22-24 September 2003
- Neuparth T., Costa F.O., Costa M.H., **Moreira da Costa L.** & Bickham J.W.: Investigation of the potential of flow cytometry and micronuclei assay as biomarkers of genotoxicity in marine fish: I. Genotoxic effects of endosulfan in gilthead seabream (*poster*).
- *2º Encontro dos Trabalhos em Biologia no Alqueva – Conservação da Natureza em Alqueva – Ponto de Situação Três Anos Depois*, Évora (Portugal) — 3-4 October de 2003
- Ribeiro F., **Moreira da Costa L.**, Tiago P., Filipe A.F. & Collares-Pereira M.J.: Estudos de biologia e ecologia de peixes dulciaquícolas na área de regolfo de Alqueva e Pedrógão (*oral presentation*).
- *10th European Congress of Ichthyology, ECI X*, Prague (Czech Republic) — 3-7 September 2001
- Tiago P., **Moreira da Costa L.**, Ribeiro F., Filipe A.F., Mieiro C.L., Cowx I.G. & Collares-Pereira M.J.: On the distribution and biology of the sympatric barbel species inhabiting the Guadiana river basin in Portugal (*poster*).
- *International Symposium - Freshwater Fish Conservation: Options for the Future*, Algarve (Portugal) — 30 October - 4 November 2000 (Member of the Local Organising Committee)
- *2000 Joint Meeting of the Society for the Study of Evolution, The American Society of Naturalists, The Society of Systematic Biologists and The Association of Tropical Biologists*, Indiana University, Bloomington (USA) — 23-27 June 2000
- **Moreira da Costa L.**, Rab P., Skelton P., Bills R., Bianco P.G., Economidis P.S., Micha J.Cl., Persat H. & Collares-Pereira M.J.: Genome size variation in the most speciose fish family Cyprinidae: an overview (*poster*);
- Alves J., Coelho M.M., **Moreira da Costa L.** & Collares-Pereira M.J.: Inheritance patterns by diploid and polyploid members of the hybrid *Leuciscus alburnoides* complex (Pisces, Cyprinidae) (*poster*).
- *2nd Iberian Congress in Limnology*, València (Spain) — 12-16 June 2000
- Ribeiro F., Silva R., Seabra S., Tiago P., Marques T., Filipe A.F., **Moreira da Costa L.** & Collares-Pereira M.J.: Biological aspects of diploids and triploids forms of *Leuciscus alburnoides* complex (Pisces, Cyprinidae) in Guadiana river (*oral presentation*);

- **Moreira da Costa L.**, Marques T., Filipe A.F., Tiago P., Silva R., Ribeiro F., Seabra S. & Collares-Pereira M.J.: Distribution and Ecology of *Salaria fluviatilis* (Pisces: Blenniidae) in the Portuguese Guadiana river drainage (*poster*);
 - Seabra S., Tiago P., Marques T., Filipe A.F., Ribeiro F., Silva R., **Moreira da Costa L.** & Collares-Pereira M.J.: The introduced fish fauna in the Portuguese Guadiana river drainage (*poster*).
- *Seventh Congress of the European Society for Evolutionary Biology*, Barcelona (Spain) — 23-28 August 1999
- **Moreira da Costa L.**, Collares-Pereira M.J., Lusk S. & Rab P.: New data on genome size variation of Centro-European cyprinidae (Pisces, Osteichthyes) (*poster*).
- *3th Nacional Congress of Ecology*, Faro (Portugal) — 3-5 December 1998
- Coelho M.M., Pires A.M., Alves M.J., **Moreira da Costa L.** & Collares-Pereira M.J.: The fish fauna of Arade drainage basin: its importance for the biodiversity (*poster*).
- *1st Iberian Congress in Limnology*, Évora (Portugal) — 1-6 June 1998
- Rodrigues J.A., **Moreira da Costa L.**, Rogado L., Ribeiro F., Filipe A.F., Tiago P., Cowx I.G. & Collares-Pereira M.J.: The environmental constrains of the endangered fish fauna of Guadiana river basin (*oral presentation*);
 - **Moreira da Costa L.** & Collares-Pereira M.J.: Habitat alteration effect on the freshwater blenny distribution (*Salaria fluviatilis*) (*poster*);
 - Rogado L., Rodrigues J.A., **Moreira da Costa L.**, Cowx I.G., Ribeiro F. & Collares-Pereira M.J.: Damming effects in Guadiana River and habitat fragmentation of *Anaecypris hispanica* (*poster*).
- *2nd Nacional Congress of Ecology*, Coimbra (Portugal) — 3-5 December 1997
- Collares-Pereira M.J., Rodrigues J.A., Rogado M.L., **Moreira da Costa L.**, Alves M.J., Cowx I.G., Bochechas J., Almaça C. & Coelho M.M.: A conservation strategy for the *Anaecypris hispanica*, an endangered endemic fish (*oral presentation*).
- *Ninth International Congress of European Ichthyologists (CEI9)* “Fish Biodiversity”, Itália (Trieste) — 24-30 Agosto de 1997
- Collares-Pereira M.J., Cowx I.G., Rodrigues J.A., Rogado M.L., **Moreira da Costa L.** & Coelho M.M.: The distribution and abundance of *Anaecypris hispanica* (Cyprinidae) in Portugal: problems of conserving an endangered species (*oral presentation*);
 - **Moreira da Costa L.**, Próspero M.I. & Collares-Pereira M.J.: Intraspecific and interspecific genome size variation in the Cyprinidae inhabiting portuguese fresh waters (*poster*).

GRANTS

Synthesys BE-TAF-2385 (January 2007) — Morphological study of “diploid” *Barbus* from Southern Africa.

PEER REVIEWER

Zoomorphology
International Journal of Morphology

SOCIETIES

Société Française d'Ichtyologie (SFI)
European Ichthyological Society / Société Européenne d'Ichtyologie

OTHER INFORMATIONS

LINGUISTIC CAPABILITIES

French (native language)
Portuguese (second language)
English (spoken, reading and written)

SOFTWARE KNOWLEDGE

DOS and Windows environment:
Office (WORD , EXCEL, ACCESS, POWERPOINT);
Geographic Information Systems (GIS): ArcView;
Statistical tools: STATISTICA, SPSS, RAMAS, CANOCO

OTHER FORMATIONS

General Linear Models applied to the ecology, by Ricardo Lemos, LPN (29th March – 2nd April 2004).
Ecology and conservation course of hydric management (Lisbon) (2001).
Scientific Illustration course with Dr Pedro Salgado (1999).