

## CURRICULUM VITAE

**DANIEL E. RUZZANTE, KILLAM PROFESSOR**

**CANADA RESEARCH CHAIR (TIER II) IN MARINE CONSERVATION GENETICS (2002-2012)  
APRIL 2017**

Professional Address: Department of Biology, Dalhousie University, Halifax, NS, B3H 4J1  
(902)494-1688 (daniel.ruzzante@dal.ca)

### Academic background

**Ph.D. Biology** Department of Biology, Dalhousie University (Sep 1986 -1991)

**M.Sc. Biology** Department of Biology, Dalhousie University (1984 - 1986)

**Lic. en Ciencias Biologicas**, Univ. Nacional Buenos Aires, Buenos Aires, Argentina (1973 - 1979)

### Awards

**Killam Professor of Biology**, Dalhousie University (2014 – 2019)

**Canada Research Chair** (Tier II) in Marine Conservation Genetics (2002 – 2012)

### Professional Academic Positions

**Professor**, Dalhousie University, Department of Biology (2010 - )

**Associate Professor** (2002 – 2010)

**Senior Scientist**, Danish Institute for Fisheries Research, Denmark (1998 – 2002)

**Adjunct Professor**, Dalhousie University, Department of Biology (1997 – 2002)

**Honorary Research Scientist**, Universidad Nacional del Comahue, Argentina (1995 - )

**Research Associate in Genetics**, Marine Gene Probe Laboratory, Dalhousie University  
Departments of Biology and Oceanography (1994 – 1998).

### Editorial Activities

**2010-2016: Associate Editor** for *Proceedings of the Royal Society of London B*

**2012 – Present: Editorial Board** *Molecular Ecology*

**2011: Guest Editor** for a Special Issue of *Biol J Linnean Society* on Patagonian palaeoclimatology and palaeogeography: **Implications for biodiversity.**

**2006: Guest Editor** for *FSBI Journal of Fish Biology* 2006 Symposium volume.

**2004 – 2011 : Associate Editor**, *Conservation Genetics*

**2000 – 2005 : Assistant Editor**, *Journal of Fish Biology* (Genetics and Evolution)

### Committee Memberships

**2016 - : Member of the Review Oversight Committee for Genome Ontario**

**2013 – 2016: COSEWIC** (Committee for the Status of Endangered Wildlife in Canada (COSEWIC), Marine Fish Species Subcommittee - Member at Large

**2012 – Present: Chair** of the Graduate Students Admission Committee, Department of Biology, Dalhousie University.

**2009 – Present: Appointments and Awards Committee**, Department of Biology, Dalhousie University – Member at large

**2012 – Present: Chair** of the Departmental Seminar Committee - Dalhousie University

Description: Organize and run weekly departmental seminars

**2007 – 2009:** Member of the Scientific Advisory Committee of ESRF (Endangered Species Recovery Fund, Co-sponsored by WWF-CANADA & Govt. of Canada (Env. Canada)

## Teaching

### *Lecturer at Dalhousie*

**2015 – PRESENT: BIOL 5700 COMMUNICATIONS (GRAD STUDENTS)**

**2003 - PRESENT: BIOL 3042-5042 MOLEC. ECOLOGY/MAR. CONSERVATION GENETICS**

**2002 – 2014: BIOL 2060 INTRODUCTORY ECOLOGY**

**2007: BIO 2040 EVOLUTION**

### Invited lecturer:

**2007 – Present:** Invited lecturer and member of the scientific committee of REGENEC (Red Latino Americana de Genética de la Conservación). This organization, led by a group from the Simón Bolívar University in Venezuela, organizes a two-week long course annually on Conservation Genetics. This team-taught course is aimed at graduate students from across Latin America. I have participated as a lecturer in this course since 2007.

**2003 (Sept):** Invited lecturer, Grad course Marine Conservation Genetics. Univ. Aarhus, Denmark.

**2000 (Jan):** Workshop analysis of molecular data in pop. genetics. Catholic Univ Leuven, Belgium.

**1995 (Dec):** Graduate course on ecological genetics. Centro Regional Universitario Bariloche, Universidad Nacional del Comahue, Bariloche, Argentina.

## Training of Highly Qualified Personnel (HQP)

### Postdoctoral Fellows (5)

#### *Current:*

Dr Berenice Trovant (2015 – 2017)

**Past:** Dr Denis Roy, PhD Univ Windsor, Canada, Dalhousie Univ. (2009 - 2012).

Dr Daniel Gómez-Uchida, PhD Oregon, 2006. Parks Canada fellow (2007-2009)

Dr David Hardie, PhD Dalhousie, 2007, NSERC Postdoctoral fellow (2008-2009).

Dr Juan Pablo Barriga, PhD Univ Comahue, CONICET, Argentina (2007).

Dr Merel Dalebout, PhD U. Auckland, NZ 2001. Killam Postdoc (2003-05) (w Whitehead).

### PhD Supervisor:

**Current:** James Kho (2017 - )

Francisca Valenzuela (2015 - ) Doct @ U Concepcion, Chile, Co-supervisor Evelyn Habit

Sarah Salisbury (Jan 2016 - ) Supervisor

Lisette Delgado-Aquiye (2015 - ) Supervisor

Angela Fuentes Pardo (2011 - ) Supervisor

Ivan Vera (2010 - ) Supervisor

**Past:** Berenice Trovant (2009 –2015) Supervisor - @ U Comahue AR - Co-Sup. N Basso

Edmund Halfyard (2009 – 2014) (Co-Supervisor w Fred Whoriskey)

Tyler Zemlak (Supervisor, 2006 – 2011) (Dr SJ Walde Co-supervisor)

Cecilia Carrea (Supervisor, 2007 – 2011) (@ U Comahue, VE Cussac Co-Supervisor)

Friso Palstra (Supervisor, 2003 – 2008)

## MSc Supervisor

**Past:** Sarah Salisbury (2013 – 2015) Supervisor  
 Anahi Jorquera (2010 – 2014) Co-Supervisor w Dr Ellen Kenchington  
 Greg McCracken (2010 – 2012) Supervisor  
 Devon Johnstone (2010 – 2012) Supervisor  
 Kincaid Chan (MSc 2007 – 2009) – Co-Supervisor (Dr Sandra Walde Supervisor)  
 John Zinck (MSc. 2005 – 2007) Supervisor  
 David Marson, (Master in Marine Management, 2005) Supervisor

## Honours thesis supervision

### Current:

Connor Booker (April 2016 - )

### Past:

Hilary Brewis (Sept 2014 – May April 16)  
 Samantha Parmelee, BSc Honours 2014  
 Livia Anthes, BSc Honours 2014  
 Kristen Hill, BSc Honours 2010  
 Emily Adams, BSc Honours 2007  
 Kathryn Dunphy, BSc Honours 2007  
 Christina Jones, BSc Honours 2005  
 Alondramaría García-Revilla, BSc Honours 2005  
 Raelene Ward, BSc Honours 2004

## Technicians

**Current:** MSc Greg McCracken

**Past:** Abby van der Jagt, (2008 - 2012)  
 Heather Schnore, student technician (Jan – Apr 2011)  
 Sarah Holland Reid (Mar 09 – Feb 2010)  
 Erica Newton (Jan – Apr 09)  
 Trina Peters, BSc (Oct 07 – Mar 08)  
 Colin Davis, student technician, Jan – June 2005  
 Jacob Seibert, BSc (2003 – 2005)

## Undergraduate Students

Shreeram Sentivasan (UoT- USRA student – May –Aug 2015)  
 David Malloy (Co-Op student – May – Aug 2015)  
 Morgan Colp (Co-Op student – May –Aug 2015)  
 Connor Booker (Co-Op student May – Aug 2014 and Jan – Apr 2015)  
 Hilary Brewis (Co-Op student Jan – Apr 2014 and Sept – Dec 2014)  
 Joshua Goodwin (June-Aug 2013)  
 Livia Anthes (Experiential Learning Jan – Apr 2013 and NSERC USRA May-Aug 2013)  
 Kristen Wilson (Co-Op student Jan – Apr 2013)  
 Kaila Lawton BSc (NSERC-USRA and Co-Op student May –Aug 2012)  
 Sarah Sampson BSc (Co-Op student May – Aug 2010)  
 Gregory McCracken BSc (Aug 09 – Apr 2010)

Kristen Hill (Aug 09 – Apr 2010)  
 Aimée Lee Houde, Co-Op student (Jan – May 2006)

## Research Contributions (Students: bold)

### Special Issue Editor

Ruzzante DE, J Rabassa (Eds.) 2011. Paleogeography and Paleoclimatology of Patagonia: Effects on Biodiversity. *Biological Journal of the Linnean Society* 103(2): 221-529

Ruzzante DE, JA Craig (Eds.) 2006. Fish Population Structure: Implications to Conservation. FSBI Symposium. University of Aberdeen, Scotland, UK. 10-14 July 2006. *Journal of Fish Biology* **69**. Supplement C (December 2006). 270 pp.

### 2017

(112) **Lamichhaney S, Fuentes-Pardo AP**, Rafati N, Ryman N, McCracken GR, Bourne C, Singh R, Ruzzante DE and L Andersson (2017) Parallel adaptive evolution of geographically distant herring populations on both sides of the North Atlantic Ocean. *Proceedings of the National Academy of Sciences*, available online

(111) **Trovant B**, F Márquez, C del Río, DE Ruzzante, S Martínez, JM (Lobo) Orensanz. (2017) Insights on the history of the scorched mussel *Brachidontes rodriguezii* (Bivalvia: Mytilidae) in the Southwest Atlantic: A geometric morphometrics perspective. *Historical Biology* (<http://dx.doi.org/10.1080/08912963.2017.1306699>)

(110) Górski K, González JF, Vivancos A, Habit EM, DE Ruzzante. (2017). Young-of-the-year Coho salmon *Oncorhynchus kisutch* recruit in fresh waters of remote Patagonian fjords in southern Chile (51°S). *Biological Invasions* (Available online)

### 2016

(109) De los Rios-Escalante P, J González, K Górski, E Habit, DE Ruzzante 2016 Crustacean zooplankton assemblages in inland waters of southern Patagonia (Alacalufes National Reserve), Chile (49-51°S) . *Crustaceana* 89(14):1639-1647 · November 2016

(108) **Salisbury SJ, GR McCracken**, D Keefe, R Perry, DE Ruzzante. 2016. Portrait of a sucker: the landscape genetics of longnose sucker (*Catostomus catostomus*) in a spatially fragmented system *Mol Ecol* 25, 4126-4145

(107) **Jorquera E**, E Kenchington, DE Ruzzante. 2016. "High prevalence of Multiple Paternity in the Deep-Sea Shrimp *Acanthephyra pelagica*". *Marine Biology* 163:89 DOI 10.1007/s00227-016-2868-0

(106) **Trovant B**, NG Basso, JM (Lobo) Orensanz, E Lessa, F Dincao, DE Ruzzante. 2016. Scorched Mussels (*Brachidontes* spp., Bivalvia: Mytilidae) from the Tropical and Warm-temperate Southwestern Atlantic: The role of the Amazon river in their speciation. *Ecology and Evolution* (first available online: 18 FEB 2016 | DOI: 10.1002/ece3.2016).

(105) Ruzzante DE, G McCracken, **S Parmelee, K Hill**, A Corrigan, J MacMillan, SJ Walde. 2016. Effective number of breeders, effective population size and their relationship with census size in an

iteroparous species, *Salvelinus fontinalis*. Proceedings of the Royal Society of London, **B**, 283, DOI: 10.1098/rspb.2015.2601.

## 2015

(104) Rodríguez-Clark KM, MA Olivera-Miranda, M Aguilera, Á Martino, M Mendez, C Miyaki, MG Montiel-Villalobos, RM de Oliveira-Miranda, E Poulin, DE Ruzzante, A Solé-Cava.<sup>†</sup> 2015. Finding the Conservation in Conservation Genetics – Progress in Latin America. Journal of Heredity, 106 Suppl 1(S1):423-427.

(103) Roy D, MA Treble, DC Hardie, JD Reist, DE Ruzzante. 2015. Panmixia and incomplete lineage sorting can give similar mtDNA signals: Response to comments by Carr and Davidson (2015). Canadian Journal of Fisheries and Aquatic Sciences, **72**, 1122-1123.

(102) Vera-Escalona I, E Habit, DE Ruzzante. 2015. Echoes of a distant time: effects of historical processes on contemporary genetic patterns in *Galaxias platei* in Patagonia. Molecular Ecology, **24**, 4112-4128.

(101) Trovant B, JM (Lobo) Orensanz, DE Ruzzante, W Stotz, N Basso. 2015. Scorched Mussels (Bivalvia: Mtytilidae: Brachidontinae) from the Temperate Coasts of South-America: Phylogenetic relationships, trans-Pacific Connections and the fingerprints of Quaternary Glaciations. Molecular Phylogenetics and Evolution, **82**, 60-74. DOI: 10.1016/j.ympev.2014.10.002

## 2014

(100) Bradbury IR, S Bowman, T Borza, PVR Snelgrove, JA Hutchings, PR Berg, N Rodríguez-Ezpeleta, J Lighten, DE Ruzzante, CT Taggart, P Bentzen. 2014. Long distance linkage disequilibrium and limited hybridization suggest cryptic speciation in Atlantic cod. PLOS ONE DOI: 10.1371/journal.pone.0106380

(99) McCracken GR, KL Wilson, HT Brewis, M McBride, I Paterson, R Perry, D Keefe, DE Ruzzante. 2014. Development of 26 novel microsatellite markers for the round whitefish (*Prosopium cylindraceum*) and successful polymorphic cross-specific amplification from 7 previously developed salmonid markers. *Conservation Genetics Resources*, **6(4)**: 1023-1026.

(98) McCracken GR, HT Brewis, M McBride, R Perry, D Keefe, DE Ruzzante. 2014. Development and characterization of 36 novel microsatellite markers for lake chub (*Couesius plumbeus*) using Illumina paired-end sequencing. *Conservation Genetics Resources*, **6(4)**: 873-876.

(97) Vera-Escalona I, LE Anthes, IG Paterson, DE Ruzzante. 2014. Seventeen novel microsatellite markers for the southern hemisphere fish *Galaxias maculatus*. *Conservation Genetics Resources*, **6(4)**: 925-927.

(96) Vera-Escalona I, IG Paterson, E Habit, DE Ruzzante. 2014. Development and characterization of 15 novel microsatellite markers for the freshwater fish *Galaxias platei*. *Conservation Genetics Resources*, **6(4)**: 6: 899-901.

(95) Jorquera E, L Anstey, I Paterson, E Kenchington, DE Ruzzante. 2014. Isolation and characterization of twenty six novel microsatellite loci in the deep-sea shrimp *Acantheephyra pelagica*. *Conservation Genetics Resources*, **6(3)**: 731-733.

(94) Roy D, M Treble, D Hardie, J Reist, DE Ruzzante. 2014. Evidence supporting panmixia in Greenland halibut (*Reinhardtius hippoglossoides*) in the Northwest Atlantic. *Canadian Journal of Fisheries and Aquatic Sciences*, **71(5)**: 763-774

(93) McCracken GR, KL Wilson, I Paterson, R Perry, D Keefe, DE Ruzzante. 2014. Development of 17 novel microsatellite markers for the longnose sucker (*Catostomus catostomus*) and successful cross-specific amplification of 14 previously developed markers from congeneric species. *Conservation Genetics Resources*, **6(2)**: 329 - 332.

### 2013

(92) McCracken G, R Perry, D Keefe, DE Ruzzante. 2013. Hierarchical structure and diversity in a dendritic lake trout (*Salvelinus namaycush*) system in northern Labrador. *Freshwater Biology*, **58**: 1903 - 1917.

(91) Trovant B, DE Ruzzante, N Basso, JM (Lobo) Orensanz. 2013. Distinctness, Phylogenetic Relations and Biogeography of Intertidal Mussels (*Brachidontes*, MYTILIDAE) from the Southwestern Atlantic. *J Marine Biology Association of the UK*, **93(7)**, 1843 - 1855.

(90) Johnstone D, MF O'Connell, FP Palstra & DE Ruzzante. 2013. Mature male parr contribution to the effective size of an anadromous Atlantic salmon (*Salmo salar*) population over 30 years. *Molecular Ecology*, **22**: 2394 - 2407.

(89) Halfyard EA, AJF Gibson, MJW Stokesbury, DE Ruzzante, FG Whoriskey. 2013. Correlates of early marine survival of Atlantic salmon (*Salmo salar*) smolts from Nova Scotia's Southern upland. *Can. J. Fish. & Aquat. Sci.*, **70(3)**: 452 – 470.

(88) Bradbury IR, Hubert S, Higgins B, Bowman S, Paterson IG, Snelgrove P, Morris C, Gregory R, Hardie D, Hutchings JA, Borza T, Ruzzante DE, Taggart CT, Bentzen P. 2013. Genomic islands of divergence and their consequences for the resolution of spatial structure in an exploited marine fish. *Evolutionary Applications*, **6(3)**: 450 – 461.

(87) Gomez-Uchida D, FP Palstra, T Knight, DE Ruzzante. 2013. Contemporary population and metapopulation effective size ( $N_e$  and meta- $N_e$ ): Comparison among three salmonid species inhabiting a fragmented system and differing in gene flow and its asymmetries. *Ecology and Evolution*, **3**: 569 – 580. DOI: 10.1002/ece3.485

(86) Elgueta A, J Gonzalez, DE Ruzzante, SJ Walde, E Habit. 2013. Trophic interference by *Salmo trutta* on *Aplochiton zebra* and *Aplochiton taeniatus* in southern Patagonian lakes. *Journal of Fish Biology*, **82(2)**: 430-443.

(85) Carrea C, VE Cussac, DE Ruzzante. 2013. Genetic and phenotypic variation among *Galaxias maculatus* populations reflects contrasting landscape effects between northern and southern Patagonia. *Freshwater Biology* **58**: 36 – 49.

### 2012

(84) Habit E, J Gonzalez, DE Ruzzante, SJ Walde. 2012. Native and introduced fish species richness in lacustrine Chilean Patagonia: Inferences on species invasion success from salmonid free lakes. *Diversity and Distributions*, **18(12)**: 1153-1165.

(83) Halfyard EA, AJF Gibson, DE Ruzzante, MJW Stokesbury, FG Whoriskey. 2012. Migratory behavior and survival of Atlantic salmon smolts from Nova Scotia's Southern Upland. *Journal Fish Biology*, **81**: 1626-1645.

(82) Carrea C; JP Barriga; VE Cussac, DE Ruzzante. 2012. Genetic and phenotypic differentiation among *Galaxias maculatus* populations in a Patagonian postglacial lake system. *Biological Journal of the Linnean Society*, **107**: 368-382.

(81) Fraser CI, R Nikula, DE Ruzzante, JM Waters. 2012. Poleward bound: biological impacts of Southern Hemisphere glaciations. *Trends in Ecology and Evolution*, **27**(8): 462-471.

(80) Arias et al. 2012. Molecular Ecology Resources Primer Development Consortium. Permanent Genetic Resources added to Molecular Ecology Resources Database 1 December 2011 – 31 January 2012. [Zemlak TS, C Carrea, E Newton, IG Paterson, DE Ruzzante. Isolation and characterization of nine microsatellite markers for a galaxiid fish endemic to Patagonia]. *Mol Ecol Res*, **12**: 570-572.

(79) Roy D, T Hurlbut, DE Ruzzante. 2012. Biocomplexity in a demersal exploited fish, white hake (*Urophycis tenuis*): Depth related structure and inadequacy of current management approaches. *Can J Fish & Aquat Sci*, **69**(3): 414 - 429.

(78) Pampoulie C, AK Danielsdottir, V Thorsteinsson, E Hjörleifsson, G Marteinsdóttir, DE Ruzzante. 2012. The composition of adult overwintering and juvenile aggregations of Atlantic cod (*Gadus morhua* L.) around Iceland using neutral and functional markers: a statistical challenge. *Can J Fish & Aquat Sci.*, **69**(2): 307-320.

## 2011

(77) Zemlak TS, SJ Walde, E. Habit, DE Ruzzante. 2011. Climate induced changes to the ancestral population size of two Patagonian galaxiids: the influence of glacial cycling. *Mol Ecol* 20: 5280-5294.

(76) Bekkevold D, LAW Clausen, S Mariani, C André, EMC Hatfield, E Torstensen, N Ryman, GR Carvalho, DE Ruzzante. 2011. Distributions of Atlantic herring populations in a mixed feeding area determined with genetic mixed-stock analysis. *MEPS* 442: 187-199.

(75) Palstra FP, DE Ruzzante. 2011. Contemporary meta-population effective size: Factors influencing its empirical estimation in salmonid fish. *Heredity*, **107**: 444-455.

(74) Jakobsdóttir KB, H Pardoe, Á Magnússon, H Björnsson, C Pampoulie, DE Ruzzante, G Marteinsdóttir. 2011. Historical changes in genotypic frequencies at the *Pantophysin* locus in Atlantic cod in Icelandic waters: Evidence of fisheries-induced selection? *Evolutionary Applications*, **4**(4): 562-573.

(73) Ruzzante DE, J Rabassa. 2011. Paleoclimatology and Paleogeography of Patagonia: Implications for biodiversity. *Biol J Linnean Soc*, **103**(2): 221-228.

(72) Ruzzante DE, SJ Walde, PJ Macchi, M Alonso, JP Barriga. 2011. Phylogeography and phenotypic diversification in the Patagonian fish *Percichthys trucha*: the roles of Quaternary glacial cycles and natural selection. *Biol J Linnean Soc*, **103**(2): 514-529.

(71) Hare M, L Nunney, M Schwartz, DE Ruzzante, M Burford, RS Waples, K Ruegg, FP Palstra. **2011**. Understanding and Estimating Effective Population Size for Practical Application in Marine Species management. *Conservation Biology*, **25(3)**: 438-449.

(70) André C, LC Larsson, L Laikre, D Bekkevold, J Brigham, GR Carvalho, TG Dahlgren, WF Hutchinson, S Mariani, K Mudde, DE Ruzzante, N Ryman. **2011**. Detecting population structure in a high gene-flow species, Atlantic herring (*Clupea harengus*): direct simultaneous evaluation of neutral vs. putatively selected loci. *Heredity*, **106**: 270-280.

**2010 and prior: 69 publications**

*INVITED PRESENTATIONS (since 2012)*

**Nov 2015:** Connectivity and the importance of the temporal dimension in conservation. **Ruzzante DE**. University of New Brunswick, Fredericton, New Brunswick, Canada.

**Oct 2015:** Connectivity and the importance of the temporal dimension in conservation. **Ruzzante DE**. Uppsala University, Uppsala, Sweden.

**Jun 2015:** Department of Environment and Conservation of Newfoundland and Labrador, Corner Brook, Newfoundland: "Landscape genetics of longnose suckers (*Catostomus catostomus*), lake chub (*Coesius plumbeus*), and round whitefish (*Prosopum cylindraceum*) in the Kogaluk river system" Authors: **Salisbury S, H Brewis, G McCracken**, D Keefe, R Perry, DE Ruzzante.

**Jun 2015:** Department of Environment and Conservation of Newfoundland and Labrador, Corner Brook, Newfoundland: "Landscape genetics of Arctic char (*Salvelinus alpinus*) in Northern Labrador: are sympatric resident and anadromous populations genetically distinguishable? Authors: **Ruzzante DE**, G McCracken, C Booker, S Salisbury, T Knight, D Keefe, R Perry.

**May 2015:** "Traces of the past in the present: Connectivity and the importance of the temporal dimension in conservation" Challenges in Management of Riverine Connectivity. **Ruzzante DE**. Workshop at Universidad de Concepción, Chile.

**Apr 2015:** Huellas del pasado en el presente: Conectividad y la importancia de la dimensión temporal en conservación" **Ruzzante DE**. IV Simposio Argentino de Ictiología, Mar del Plata, Buenos Aires, Argentina

**Mar 2014:** Centro Nacional Patagónico, Argentina: "Genetic diversity in salmonid and other fish populations: The role of life history diversity and habitat fragmentation."

**Feb 2014:** Department of Environment and Conservation of Newfoundland and Labrador, Corner Brook, Newfoundland: "Genetic diversity in salmonid populations: The role of life history diversity and habitat fragmentation."

**Feb 2014:** Department of Environment and Conservation of Newfoundland and Labrador, Corner Brook, Newfoundland: "Landscape genetics of longnose suckers (*Catostomus catostomus*) in the Kogaluk river system" Authors: **Salisbury S**, R Perry, D Keefe, G McCracken, DE Ruzzante..

**March 2013:** Department of Ecology and Evolution, University of Toronto: "Genetic diversity in salmonid populations: The role of life history diversity and habitat fragmentation."

**April 2012:** Universidad de Misiones, Facultad de Ciencias, Departamento de Genética.

**Feb 2012:** Queen's University, Dept Biology "Climate and life history influence ancestral population dynamics of Patagonian fishes"

**Feb 2012:** Department of Environment and Conservation of Newfoundland and Labrador, Corner Brook, Newfoundland: "Hierarchical Structure and Diversity in a Dendritic Lake Trout (*Salvelinus namaycush*) System in Northern Labrador." Authors: **McCracken G**, R Perry, D Keefe, DE Ruzzante.

**CONFERENCE PRESENTATIONS (Since 2014) (Presenter in bold)**

**Jan 2017:** Char complex problem solving: Genetic divergence among and within landlocked and anadromous Arctic char (*Salvelinus alpinus*) populations in Labrador, Canada. **Salisbury SJ**, Booker C, McCracken GR, Knight T, Keefe D, Perry R, and Ruzzante DE. Canadian Conference for Fish and Fisheries Research (CCFFR) 2017 Annual Meeting. Montreal, Quebec, Canada.

**July 2016:** Using landscape genetics to form a portrait of a sucker in a subarctic dendritic metapopulation. **Salisbury SJ**, GR McCracken, D Keefe, R Perry, DE Ruzzante. 2016 Annual Symposium of the Fisheries Society of the British Isles, Bangor University, Wales, UK.

**July 2016:** Genetic variation in dendritic metapopulations: The effect of variance in deme contribution under asymmetric gene flow. **Gaggiotti OE** and DE Ruzzante. 2016 Annual Symposium of the Fisheries Society of the British Isles, Bangor University, Wales, UK.

**July 2016:** Connectivity and genetic diversity in four sympatric species inhabiting a dendritic system. **Ruzzante DE**, McCracken GR, Salisbury SJ, Brewis H, Keefe D, Gaggiotti OE, Perry R. 2016 Annual Symposium of the Fisheries Society of the British Isles, Bangor University, Wales, UK.

**July 2016:** A portrait of a sucker using landscape genetics. **Salisbury SJ**, GR McCracken, D Keefe, R Perry, DE Ruzzante. Canadian Society of Ecology and Evolution (CSEE) 2016 Annual Meeting. Memorial University, St John's, Newfoundland (Canada).

**July 2016:** Landscape, life history, and colonization history: their effects on genetic diversity in a fish community inhabiting a dendritic system. **Ruzzante DE**, McCracken GR, Salisbury SJ, Brewis H, Keefe D, Gaggiotti OE, Perry R. Canadian Society of Ecology and Evolution (CSEE) 2016 Annual Meeting. Memorial University, St John's, Newfoundland (Canada).

**Jan 2016:** Genetic diversity and metapopulation effective size in four sympatric species inhabiting a spatially stratified system in Northern Labrador Ruzzante DE, McCracken GR, Salisbury SJ, Brewis H, Keefe D, Gaggiotti OE, R Perry. Canadian Conference for Fish and Fisheries Research (CCFFR) 2016 Annual Meeting. St. John's, Newfoundland, Canada.

**Jan 2015:** "Connectivity in a longnose sucker (*Catostomus catostomus*) hierarchical metapopulation in northern Labrador". **Salisbury Sarah**, R Perry, D Keefe, G McCracken, DE Ruzzante. Canadian Conference for Fish and Fisheries Research (CCFFR) 2015 Annual Meeting. Ottawa. (Oral Presentation).

**May 2014:** "Contemporary and historical gene flow in a Patagonian fish metapopulation" **Authors: Vera-Escalona Ivan**, E Habit DE Ruzzante. Canadian Society of Ecology and Evolution (CSEE) 2014 Annual Meeting (May 24-29), McGill University, Montreal QC, Canada (Oral Presentation).

**May 2014:** "Connectivity in a longnose sucker (*Catostomus catostomus*) hierarchical metapopulation in northern Labrador". **Salisbury Sarah**, R Perry, D Keefe, G McCracken, DE Ruzzante. Canadian Society of Ecology and Evolution (CSEE) 2014 Annual Meeting. McGill University, Montreal QC, Canada (Oral Presentation).

**May 2014:** "Evidence of multiple paternity in the deep-sea shrimp *Acanthepeya pelagica*" Authors: **Jorquera Erika**, E Kenchington, DE Ruzzante. Canadian Society of Ecology and Evolution (CSEE) 2014 Annual Meeting (May 24-29), McGill University, Montreal QC, Canada (Oral Presentation).

**May 2014:** "Landscape genetics and effective population size of the common Galaxias (*Galaxias maculatus*) in a northern Patagonian postglacial lake system". Authors: **Anthes Livia**, Gregory McCracken, Sandra J Walde, Daniel E Ruzzante. Canadian Society of Ecology and Evolution 2014 Annual Meeting (May 24-29), McGill University, Montreal QC, Canada (Oral Presentation).

**May 2014:** "Effective size and connectivity among small population of brook trout (*Salvelinus fontinalis*) in Nova Scotia". Authors: **Parmelee Samantha**, Gregory McCracken, John MacMillan, Sandra J Walde, Daniel E Ruzzante. Canadian Society of Ecology and Evolution 2014 Annual Meeting, McGill University (May 24-29), Montreal QC, Canada (Oral Presentation).

**May 2014:** "Hierarchical population structure and genetic diversity of lake trout (*Salvelinus namaycush*) in a dendritic system in Northern Labrador." Authors: **McCracken Gregory**; R Perry; D Keefe; DE Ruzzante. Canadian Society of Ecology and Evolution (CSEE) 2014 Annual Meeting. McGill University (May 24-29), Montreal QC, Canada (Poster Presentation).

**May 2014:** "Population genomics of spawning herring in the North East Atlantic using SNPs" **Fuentes-Pardo Angela**, D Swain, Daniel E Ruzzante. Canadian Society of Ecology & Evolution (CSEE) 2014 Annual Meeting (May 24-29), McGill U., Montreal QC, Canada (Poster Presentation).

**Languages:** English and Spanish