

CURRICULUM VITAE

DANIEL E. RUZZANTE, KILLAM PROFESSOR

**CANADA RESEARCH CHAIR (TIER II) IN MARINE CONSERVATION GENETICS (2002-2012)
APRIL 2021**

Professional Address: Department of Biology, Dalhousie University, Halifax, NS, B3H 4R2
(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

2018 - : Ocean Frontier Institute, Member of the Science Advisory Committee

2016 - 2019: 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

Graduate Modules:

Genomics and Conservation of Biodiversity (Fall 2020)

The Theory of Island Biogeography Theory Revisited – A Discussion of the book edited by JB Losos & RE Ricklefs (Princeton Univ Press 2010)

Analysis of molecular data in Ecology & Evolution (Feb 2006, Mar 2007)

Adaptive radiation (October 2003)

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 (7)

Current:

Past: Dr Tony Einfeldt (2018 – 2020) (co-supervised w P Bentzen)

Dr Berenice Trovant (2015 – 2017)

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: (12)

Current: Ellie Weise (Sep 2021 -)

James Kho (2017 -)

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

Lisette Delgado-Aquiye (Sept 2015 -) Supervisor

Past: Sarah Salisbury (Jan 2016 – Apr 2021) Supervisor
 Angela Fuentes Pardo (Sept 2011 - 2019) Supervisor
 Ivan Vera (Sept 2010 - 2018) Supervisor
 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 (8)

Current: Caitlin Nemeczek (2020 -) MSc

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

Supervisory Committee: (17)

Current: Hunter Stevens (2019 -) MSc

Past: Ben Perriman (2017 - 2020) MSc
 Beth Watson (2017 - 2020) MSc
 Marion Sinclair-Waters (2014 – 2017) MSc
 Joanna Augusto (2010 – 2017) PhD
 Nancy Roney (2014 - 2016) MSc
 Jackie Lighten (2010 – 2015)
 Mark Coulson (2003 – 2014) PhD
 Lindsay Baillie (2010 – 2012) MSc
 Krista Patriquin (2005 – 2012) PhD
 Daniel Hasselman (2004 – 2010) PhD
 Megan McCusker (2002 – 2009) PhD
 Kim Murray (2003 – 2005) MSc
 Dorte Bekkevold (1999 – 2003, Univ. Aarhus, Denmark) PhD
 3 other students (Dalhousie University, prior to 1998)

Honours thesis supervision (16)

Current:

Past: Chantelle Clermont (May 2020 – April 2021)
 Krysten Tymoshuk (May 2020 – April 2021)
 Sam Prystupa (May 2019 – April 2020)
 Annie Simons (May 2018 – April 2019)
 Daniela Notte (May 2018 – April 2019)
 Quentin Kerr (May 2017 – April 2018)
 Connor Booker (April 2016 – May 2017)
 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

Honours thesis co-supervision (2)

Matt Logan, BSc Honours (Dalhousie 1999) (with Dr Sara Iverson)
 Valeria Ojeda, Lic (Univ. Nac. Comahue, Arg. 1998) (w. Dr Victor Cussac, Univ Comahue)

Technicians (9)

Current: MSc Mallory vanWyngaarden (2021 -)

Past: Greg McCracken (2012 – 2021)
 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)

Student technicians (21)

Tina Youssef (May 2021 – Aug 2021)
 Kristen Tymoshuk (May 2021 – Aug 2021)
 Sam Prystupa (May 2020 – Aug 2020)
 Ebraheem Almahddi (May 2019 – Aug 2019)
 Annie Simons (May 2018 – Aug 2018)
 Quentin Kerr (May 2017 – Aug 2017; May 2018 – Aug 2018)
 Daniela Notte (May 2017 – Aug 2017; May 2018 – Aug 2018)
 Connor Booker (May 2016 – Aug 2016)
 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, *Postdocs: bold Italics*, Techs underlined)

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.

PUBLICATIONS

INVITED FOR SUBMISSION

(140) Salisbury SJ, Ruzzante DE. **(2022)** Genetic causes and consequences of sympatric morph divergence in Salmonidae: a search for mechanisms. Invited for submission to *Annual Reviews in Animal Bioscience* by May 2021 for Jan 2022 issue.

UNDER REVISION WITH INVITATION TO RESUBMIT

(137) Salisbury SJ, McCracken GR, Perry R, Keefe D, **Layton KKS**, **Kess T**, Nugent CM, Bradbury IR, Koop BF, Ferguson MM, Ruzzante DE. **2021**. The Genomic Consistency of the Loss of Anadromy in an Arctic Fish (*Salvelinus alpinus*). Submitted to *Am Nat* Nov 13, 2020, major revisions January 28 2021.

SUBMITTED

REVISED AND RESUBMITTED

(136) Kess T, Dempson JB, Lehnert SJ, Layton K, Einfeldt A, Bentzen P, Salisbury SJ, Messmer A, Duffy S, Ruzzante DE, Nugent CM, Ferguson MM, Leong JS, Koop BF, Bradbury IR **(2021)** Genomic basis of extreme deep-water adaptation in sympatric Arctic charr (*Salvelinus alpinus*) morphs. *Mol. Ecol.* Revised version submitted March 4, 2021. Minor revisions: April 29, 2021

2021

(139) Valenzuela-Aguayo F, McCracken GR, Manosalva A, Habit EA, Ruzzante DE. 2021. Connectivity, diversity, and hybridization between two endemic fish species (genus *Percilia*) in a complex temperate landscape. *Conservation Genetics*, submitted Dec 8, 2020. Major revisions March 11, 2021 due May 13, 2021

(138) Pérez S, Manosalva A, Colin N, González J, Habit E, Ruzzante DE, Górski K. 2020. Juvenile salmon influence on the diet of native Puye *Galaxias maculatus* in lakes and estuaries of Patagonian fjords. *Biological Invasions*; submitted Nov 24, 2020; minor revisions April 20, 2021.

(135) Kess T, Einfeldt AL, Wringe B, Lehnert SJ, Layton KKS, McBride M, Robert D, Fisher J, Le Bris A, den Heyer C, Shackell N, Ruzzante DE, Bentzen P, Bradbury IR. **2021**. A putative structural variant and environmental variation associated with genomic divergence across the Northwest Atlantic in Atlantic Halibut. ICES JMS accepted March 5, 2021.

(134) Prystupa S, McCracken GR, Perry R, Ruzzante DE **(2021)** Population Abundance and Structure in Yukon Arctic Grayling Using Genomics and Close-Kin Mark-Recapture.

<https://onlinelibrary.wiley.com/doi/10.1002/ece3.7378>

(133) Einfeldt AL, Kess T, Wringe B, Bradbury IR, Fisher J, den Heyer C, Ruzzante DE, Bentzen P (2021) Chromosome level reference of Atlantic halibut *Hippoglossus hippoglossus* provides insight into the evolution of sexual determination systems. *Molecular Ecology Resources*, Available online March 2, 2021. <https://doi.org/10.1111/1755-0998.13369>

(132) Petrou EL, Fuentes-Pardo AP, Rogers LA, Orobko M, Tarpey C, Moss ML, Yang D, Pitcher TJ, Sandell T, Lowry D, Ruzzante DE, Hauser L. 2021 Functional genetic diversity in an exploited marine species and its relevance to management. *PROCB*, Feb 24, 2021. <https://doi.org/10.1098/rspb.2020.2398>

(131) Layton KKS, Snelgrove PVR, Dempson JB, Kess T, Lehnert SJ, Bentzen P, Duffy SJ, Messmer AM, Stanley RRE, DiBacco C, Salisbury SJ, Ruzzante DE, Nugent CM, Ferguson MM, Leong JS, Koop B, Bradbury IR. 2021. Genomic evidence of past and future climate-linked loss in a migratory Arctic fish. *Nature Climate Change*, Jan 11, 2021. <https://doi.org/10.1038/s41558-020-00959->

2020

(130) Delgado ML, Ruzzante DE. 2020. Investigating diadromy in fishes and its loss in an -omics era. *iScience*, Available online DOI: <https://doi.org/10.1016/j.isci.2020.101837>

(129) Delgado ML, Manosalva A, Urbina M, Habit E, Link O, Ruzzante DE (2020) Genomic basis of the loss of diadromy in *Galaxias maculatus*: insights from reciprocal transplant experiments *Molecular Ecology* 29:4857–4870. DOI: 10.1111/mec.15686

(128) Salisbury SJ, McCracken GR, Perry R, Keefe D, Layton KKS, Kess T, Nugent CM, Bradbury IR, Koop BF, Ferguson MM, Ruzzante DE. 2020. Limited genetic parallelism underlies recent, repeated incipient speciation in geographically proximate populations of an Arctic fish (*Salvelinus alpinus*) *Mol. Ecol.* 29: 4280-4294. DOI: 10.1111/mec.15634.

(127) Vera-Escalona I, Delgado ML, Habit E, Ruzzante DE. 2020. Historical and contemporary diversity of galaxiids in South America: biogeographic and phylogenetic perspectives. *Diversity* 2020, 12, 304; doi:10.3390/d12080304

(126) Ruzzante DE, Simons AP, McCracken GR, Habit E, Walde SJ. 2020. Multiple drainage reversal episodes and glacial refugia in a Patagonian fish revealed by sequenced microsatellites. *Proc. R. Soc. B* 287: 2020 0468. <http://dx.doi.org/10.1098/rspb.2020.0468>

(125) Layton KKS, Dempson B, Snelgrove PVR, Duffy SJ, Messmer AM, Paterson IG, Jeffery NW, Kess T, Horne JB, Salisbury SJ, Ruzzante DE, Bentzen P, Côté D, Nugent CM, Ferguson MM, Jong S, Leong JS, Koop BF, Bradbury IR. 2020. Resolving fine-scale population structure and fishery exploitation using sequenced microsatellites in a northern fish. *Evolutionary Applications*, 13:1055–1068. <https://doi.org/10.1111/eva.12922>

(124) Valenzuela-Aguayo F, McCracken GR, Manosalva A, Habit E, DE Ruzzante. 2020. Anthropogenic habitat fragmentation effects on connectivity, diversity and persistence of the endemic *Percilia irwini*, in the Biobío system in Chile. *Evolutionary Applications*. 13: 794 – 807. <https://onlinelibrary.wiley.com/doi/10.1111/eva.12901>

2019

(123) **Delgado ML**, Gorski K, Habit E, Ruzzante DE. 2019. The effects of diadromy and its loss on genomic divergence: the case of amphidromous *Galaxias maculatus* populations. *Molecular Ecology* 28 (24): 5217-5231 <https://doi.org/10.1111/mec.15290>

(122) Ruzzante DE, McCracken GR, Førland B, MacMillan J, **Notte D**, Buhariwalla C, Mills Flemming J, Skaug H. 2019. Validation of close-kin mark-recapture (CKMR) methods for estimating population abundance. *Methods in Ecology and Evolution* 10:1445–1453. <https://besjournals.onlinelibrary.wiley.com/doi/epdf/10.1111/2041-210X.13243>

(121) Ruzzante DE, GR McCracken, **SJ Salisbury**, **H Brewis**, D Keefe, OE Gaggiotti, R Perry 2019. Landscape, colonization and life history: Their effects on genetic diversity in four sympatric species inhabiting a dendritic system. *Canadian Journal of Fisheries and Aquatic Sciences* 76: 2288-2302. <https://www.nrcresearchpress.com/doi/pdf/10.1139/cjfas-2018-0416>

(120) **Vera-Escalona I**, Habit E, Ruzzante DE. 2019. Invasive species and postglacial colonization: their effects on the genetic diversity of a Patagonian fish. *Proc. R. Soc. B* 286: 20182567. <http://dx.doi.org/10.1098/rspb.2018.2567>

(119) **Salisbury SJ**, GR McCracken, D Keefe, R Perry, DE Ruzzante. 2019. Extensive Secondary Contact among Three Glacial Lineages of Arctic Char (*Salvelinus alpinus*) in Newfoundland and Labrador. *Ecology & Evolution* 9: 2031–2045. <https://onlinelibrary.wiley.com/doi/epdf/10.1002/ece3.4893>

(118) **Kerr QR**, **Fuentes-Pardo AP**, **Kho J**, J McDermid, DE Ruzzante, 2019. Temporal Stability of Genomic Differentiation between Spawning Season Components in Atlantic Herring (*Clupea harengus*). *Ecology and Evolution* 9: 500–510. <https://onlinelibrary.wiley.com/doi/epdf/10.1002/ece3.4768>

2018

(117) **Sinclair-Waters M**, Bradbury IR, Morris CJ, Ruzzante DE and P Bentzen. 2018. Genomic tools for management and conservation of Atlantic Cod in a coastal marine protected area. *Canadian Journal of Fisheries and Aquatic Sciences*, 75(11): 1915-1925, <https://doi.org/10.1139/cjfas-2017-0254>

(116) **Vera-Escalona I**, **Senthivassan S**, Habit E, DE Ruzzante. 2018. Past, present and future of a freshwater fish metapopulation in a threatened landscape. *Conservation Biology* 32(4):849-859.

(115) **Salisbury SJ**, **C Booker**, GR McCracken, D Keefe, T Knight, R Perry, DE Ruzzante. 2018. Genetic divergence among and within landlocked and anadromous Arctic char (*Salvelinus alpinus*) populations in Labrador, Canada. *Canadian Journal of Fisheries and Aquatic Sciences*, 75(8):1256-1269. <https://doi.org/10.1139/cjfas-2017-0163>

(114) **Trovant B**, F Márquez, C del Río, DE Ruzzante, S Martínez, JM (Lobo) Orensanz. 2018. Insights on the history of the scorched mussel *Brachidontes rodriguezii* (Bivalvia: Mytilidae) in the Southwest Atlantic: A geometric morphometrics perspective. *Historical Biology* 30(4):56-572. <http://dx.doi.org/10.1080/08912963.2017.1306699>

2017

(113) **Vera-Escalona I**, E Habit, DE Ruzzante. 2017. The complete mitochondrial genome of the freshwater fish *Galaxias platei* and a comparison with other species of the genus *Galaxias* (faraway, so close?) *Mitochondrial DNA Part A* 28(2):176-177.

(112) Fuentes-Pardo AP, DE Ruzzante. 2017. Whole-genome sequencing approaches for conservation biology: advantages, limitations, and practical recommendations. *Molecular Ecology*, **26**: 5369–5406. *Invited review*

(111) 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. *PNAS*, *114*(17): E3452-E3461 <http://www.pnas.org/lookup/suppl/doi:10.1073/pnas.1617728114/-/DCSupplemental>

(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* 19(4): 1127-1136. doi:10.1007/s10530-016-1341-9

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. 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.

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PRIOR TO GRADUATE SCHOOL

- (4) Ruzzante DE, HE Zaixso. 1985. The settlement of *Chlamys tehuelchus* (d'Orb.) on artificial collectors. Seasonal changes in spat settlement. Mar. Ecol. Prog. Ser., **26**: 195-197.
- (3) Ruzzante DE, AT de Guerrero. 1984. Captacion de mitilidos sobre colectores. I. Variaciones mensuales en la captacion de *Mytilus platensis* d'Orb. y de *Aulacomya ater* (Molina). PHYSIS (Buenos Aires, Argentina), Secc. A **42** (102): 55-62.
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PAPERS THAT RESULTED FROM THE INTERNATIONAL PROJECT I COORDINATED (HERGEN, 2002-2005) BUT ON WHICH I AM NOT A CO-AUTHOR:

- Bekkevold D, Clausen LAW, Mariani S, André C, Christensen TB, Mosegaard H (2007) Divergent origins of sympatric herring population components determined using genetic mixture analysis. Marine Ecology Progress Series 337: 187 – 196.
- Larsson, L, L Laikre, S Palm, C André, GR Carvalho, N Ryman. 2007. Larsson LC, L Laikre, S Palm, C André, GR Carvalho, N Ryman (2007) Concordance of allozyme and microsatellite differentiation in a marine fish, but evidence of selection at a microsatellite locus. Mol Ecol 1135-1147.

OTHER PUBLISHED WORK

Report to European Union : Laikre L. (Ed.) 1999. Conservation genetic management of brown trout (*Salmo trutta*) in Europe. A Report to the European Commission, by the “Concerted Action on Identification, Management and Exploitation of Genetic Resources in the Brown Trout (*Salmo trutta*)” (“TROUTCONCERT”; EU FAIR CT97-3882). Authors by alphabetic order: Antunes et al.

RESEARCH FUNDING

SUPPORT APPLIED FOR

SUPPORT CURRENTLY HELD

2020-2025: 594000 DFO SFSF Atlantic Halibut CKMR

2019 – 2024: NSERC Discovery Grant: \$ 47,000 for 5 yrs (TOTAL: \$ 235,000)

2018-2019: Close Kin Mark Recapture estimates of population size in Grey Seals in the NW Atlantic and a workshop on CKMR for the genetic estimation of abundance in marine organisms. Funding source: Canada First Research Excellence Fund (CFREF): Ocean Frontier Institute (2017-2021): \$ 29155

2017 -2021: Impact of warming on valued groundfish. Funding Source: Canada First Research Excellence Fund (CFREF): Ocean Frontier Institute (2017-2021); \$885,500 (my portion with Paul Bentzen is ~\$449, 000).

4) Population genomics of Chilean native fish. Funding Source: Dept. of Foreign Affairs, Trade and Development: (2018-2019): \$ 9700

5) Multiuser, multimode microplate reader for measuring absorbance, fluorescence and luminescence. Funding source: NSERC Research Tools & Instruments. (2018) \$81,325

6) Effective to census population size ratios in Arctic grayling (*Thymallus arcticus*) in the Lubbock river, Yukon Territory. Funding source: Yukon government (2018-2020) \$ 30000

2016/2019: NSERC STPGP 494276 – 16: The genomics of spawning seasonality and seascape in commercially harvested herring (*Clupea harengus*) in the Northwest Atlantic: \$ 539,000

2015 – 2018. Proyecto FONDECYT 1150154 “Within-basin barriers and among-basin leaks: changing connectivity of rivers in central Chile and its impact on native fish”. International collaborator ~ CAN \$ 400,000 over 4 years

2014 – 2019: NSERC Discovery Grant: \$ 42,000/yr for 5 yrs (TOTAL: \$ 210,000)

SUPPORT HELD IN THE PAST

2016/2017: DFO: Population structure and connectivity in Atlantic herring: \$ 22,000

2015/2016: DFO: Population structure and connectivity in Atlantic herring: \$ 15,000

2015: IBES, NL and Labrador: \$ 15,000

2015-2016: FFRC (Nova Scotia Freshwater Fisheries Research Cooperative): \$ 10,000/yr for 2 years

2014-2015. Proyecto Conicyt REDES140187 "Understanding the effects of hydraulic connectivity on biodiversity and ecological functioning of riverine ecosystems for informed river management". Co-Pi

2013 – 2016: PICT-RAICES – CONICET – ARGENTINA \$ 65000

2013 – 2014: National Geographic Society: US\$ 19,990

2013 – 2016: NSERC STPG: \$ 104,700/ yr for 3 yrs (TOTAL: \$ 314,200)

2009-2014: NSERC Discovery Grant: \$ 34,000/yr for 5 yrs (TOTAL: \$ 170,000)

2009-2014: NSERC Northern Research Supplement: \$ 15,000/yr for 5 yrs (TOTAL: \$ 75,000)

2009-2012: RAICES-CONICET-ARGENTINA: ~ US \$30,000/yr for 3 yrs (TOTAL: US \$ 90,000) “Two Biotas, two themes? An inquiry into the Origins of the Marine Biota from the Southwestern Atlantic Ocean” (Co-PIs: C Del Rio, JM Orensanz, DE Ruzzante)

2008-2010: CLEARWATER FINE FOODS: \$ 140,000 (total over 2 yrs). The Population structure of *Zygochlamys patagonica* in the SW Atlantic (PI: DE Ruzzante)

2008-2010: DFO (Moncton): \$62,500/yr for 2 yrs (TOTAL: \$ 125,000). Biocomplexity of whitehake *Urophycis tenuis* in the Gulf of St Lawrence (PI: DE Ruzzante)

2008-2010: DFO (Winnipeg): \$ 28,750/yr for 2 yrs (TOTAL= \$57,500) The population structure of Greenland halibut in the NW Atlantic (PI: DE Ruzzante)

2008-2010: FONDECYT-CHILE: US \$ 75,000/yr for 3 yrs. Latitudinal and local patterns of diversity in the native and non-native lacustrine fish fauna of the Chilean Patagonia. (PI: E Habit + 2 others, Ruzzante is international collaborator)

2008: GSEP-DFAIT: (Graduate Student Exchange Program, Department of Foreign Affairs and International Trade, Govt. Canada): \$20,000. (PI: DE Ruzzante)

2007-2010: RAICES-CONICET-ARGENTINA: ~ US \$30,000/yr for 3 yrs (TOTAL: US \$ 90,000) Genética poblacional y ecofisiología de pejerreyes (Pisces, Atherinopsidae) en relación con su tecnología pecuaria y pesquera. (Co-PIs: VE Cussac, G Orti, DE Ruzzante)

2007-2008: National Geographic Society, Washington: \$ 19,950 Phylogeography and landscape evolution in the Patagonian Andes. (1 yr)

2007 – 2010: NSERC - SRO (Special Research Opportunity Program): 2007-2009: \$ 112,800 Phylogeography, Speciation and Conservation Genetics of Patagonian fishes. (PI: Ruzzante)

2007-2009 (2 yr): Parks Canada Ecological Integrity Funds: \$ 134,000 Use of techniques to estimate trends in salmonid fish effective population sizes for their management and conservation (Knight & Ruzzante Co-PIs)

2005 – 2009 (5yr): US\$ 2,000,000 Speciation in Patagonia: Establishing Sustainable International Collaborations in Evolution, Ecology, and Conservation Biology. NSF International Partnership for Research and Education. International Collaborative Grant with Argentinean, Chilean, US and Canadian colleagues. (PI: JB Johnson BYU, USA)

SUPPORT HELD SINCE THE START OF MY POSITION AT DALHOUSIE

2004 – 2009: NSERC Discovery Grant: \$ 90,000 Evolutionary Genetics of fishes.

2004 – 2009: NSERC Northern Research Supplement: \$ 50,000 Evolutionary Genetics of Fishes.

2003-2006: DFO SARCEP funding: 60,000.00 Genetic diversity and population structure in northern bottlenose whales. (PIs: Ruzzante & Whitehead)

2003-2006: DFO Academic Subvention Grant: \$ 45,000.00 Long term effective population size (N_e) of declining Atlantic salmon (*Salmo salar*) populations in Newfoundland. (PI: Ruzzante)

2003-2005: DFO: \$ 40,000.00 Management strategies for the conservation of genetic biodiversity criteria for the sustainability of fishery resources. (PI: DE Ruzzante)

2003-2004: CFI & NSRIT \$ 250,000.00 Infrastructure for the analysis of molecular variation, for statistical analysis of molecular data & for the measurement of phenotypic variation. (PI: Ruzzante)

2002-2005: ~\$€ 2,000,000.00 (€: euros). The role of sub-stock structure in the maintenance of cod metapopulations (METACOD). Funded by the European Union Vth Framework Programme. Collaboration among institutions from 4 European countries (ICE, SCOT, DK & GER). Before moving from the Danish Inst. for Fisheries Research, I was PI for DK. Since my move to Dalhousie in 2002, I continued my participation in the project as external expert. Danish budget ~ \$€ 400,000.

2002-2004: ~\$€ 1,553,000.00. Conservation of intraspecific biodiversity in an exploited species: temporal and spatial variation in the genetics of North Sea herring (*Clupea harengus*) and adjacent areas (HERGEN). Funded by the European Union Vth Framework Programme. Collaboration among institutions from 5 European countries (UK [ENG, SCOT], NO, SE, DK, NL). I was overall project coordinator. Danish budget ~ \$€ 600,000.

2000- 2002: \$US 18,750.00 Trophic polymorphism, adaptive radiation and population structure in Patagonian Fish. **National Geographic Society.** Ruzzante, D.E. (Principal Investigator).

2001-2003: ~US\$ 200,000 Conservation genetics of an exploited marine fish. Danish Research Agency, Ministry of Food and Agriculture, DK).

INVITED PRESENTATIONS (since 2006)

Nov 2020: Oceanography Department, Dalhousie University

Aug 2019: CSEE Annual Meeting, Fredericton: Symposium on Conservation Genomics: Validation of the close kin mark recapture method for the estimation of population abundance

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 (*Prosopium 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 (*Catostomous 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.

Jan 2010: Since 2007 I have been 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 Univ. (Venezuela) organizes an 2-week long course annually on Conservation Genetics. The course is team taught and is aimed at graduate students from across Latin America.

Aug 2009: Academia Nacional de Ciencias de Argentina, Universidad Nacional de Córdoba, Argentina: “Variación Molecular y Adaptativa en peces nativos Patagónicos” (DE Ruzzante)

Aug 2009: Facultad de Ciencias Naturales y Museo, Universidad Nacional de La Plata, Argentina: “Variación Molecular y Adaptativa en peces nativos Patagónicos: Control Climático de la dinámica de poblaciones ancestrales” (DE Ruzzante)

July 2009: Centre for Coral Reef Studies, James Cook University, Townsville, Queensland, Australia. "Biocomplexity in marine fish, the roles of demography, environment & gene flow: Atlantic herring & Atlantic salmon as case studies. (DE Ruzzante)

June 2009: Department of Biology, University of Otago, New Zealand. “Molecular & adaptive variation of Patagonian fishes: Climate control on ancestral population dynamics” (DE Ruzzante)

Feb 08: SALSEA – SALMAN II Population structure in Atlantic salmon DE Ruzzante & F Palstra

Feb 08: Université Joseph Fourier, Grenoble, France, Invited Seminar: Molecular & adaptive variation of Patagonian fishes: Climate control on ancestral population dynamics (DE Ruzzante)

Dec 07: Universidad de Chile, Santiago, Chile

Aug 07: Invited Presentation at Centro Nacional Patagónico, Pto Madryn, Argentina

May 07: Invited Presentation at Universidad de Concepción, Chile

Mar 07: Fish Barcode of Life for South America Meeting, March 2007, Buenos Aires, Argentina.

Dec 06: VI Jornadas Nacionales de las Ciencias del Mar, Pto Madryn, Argentina. Keynote speaker

CONFERENCE PRESENTATIONS (Since 2016)(Presenter in bold)

Jan 2021: CCFR online: James oral presentation

Aug 2020: AFS online: Sarah

Jan 2020: CCFR Halifax: Sarah: oral presentation, James poster; Sam poster

Sept 2019: AFS Annual meeting Reno Nevada

Aug 2019: Daniel Ruzzante CSEE Fredericton

Aug 2019: Lisette Delgado

Aug 2019: Angela Fuentes-Pardo

Aug 2019: Sarah Salisbury

Aug 2019: Tony Elnfeldt

Jan 2019. Validation of the close kin mark recapture method for estimating population abundance. **D. Ruzzante**, McCracken GR, Førland B, MacMillan J, Notte D, Buhariwalla C, Mills Flemming J, Skaug H Canadian Conference for Fish and Fisheries Research (CCFFR 2019) Jan 2019, London, ON, Canada

Jan 2019 Genetic divergence among sympatric resident and anadromous Arctic char (*Salvelinus alpinus*) in Labrador. **Salisbury, S.J.**, McCracken, G.R., Perry, R., Keefe, D., Koop, B.F., Ferguson, M.M., Danzmann, R.G., Ruzzante, D.E. Canadian Conference for Fish and Fisheries Research (CCFFR 2019) Jan 2019, London, ON, Canada

July 2018: From effective to census population size in an iteroparous species **Daniel Ruzzante** (Symposium speaker) Canadian Society of Ecology and Evolution (CSEE) 2018 Annual Meeting. University of Guelph, Guelph, ON (Canada)

July 2018: Cold fins, warm hearts: evidence of extensive secondary contact between three glacial lineages of Arctic char in Newfoundland and Labrador **S. Salisbury**, G. R. McCracken, T. Knight, D. Keefe, R. Perry, D. E. Ruzzante. Canadian Society of Ecology and Evolution (CSEE) 2018 Annual Meeting. University of Guelph, Guelph, ON (Canada)

July 2018 *Temporal stability of genomic differentiation between seasonal spawning components in Atlantic herring (Clupea harengus):* **Quentin Kerr**, A. Fuentes-Pardo, J. Kho, D.E. Ruzzante Canadian Society of Ecology and Evolution (CSEE) 2018 Annual Meeting. University of Guelph, Guelph, ON (Canada)

Sep 2017: Patrones de colonización, caracteres de historia de vida y paisaje: sus efectos sobre la diversidad genética en peces en sistemas dendríticos. V Simposio Argentino de Ictiología, Sep 5-7 2017. Corrientes, Argentina.

June 2017: Fishing for sympatry: an investigation of the historical and contemporary neutral processes shaping Arctic char (*Salvelinus alpinus*) in Labrador, Canada. **Salisbury SJ**, C Booker, GR McCracken, T Knight, D Keefe, R Perry, and DE Ruzzante. Canadian Society of Ecology and Evolution (CSEE) 2017 Annual Meeting. University of Victoria, Victoria, BC (Canada)

June 2017: Fine-scale genome-wide analysis of spawning herring (*Clupea harengus*) populations in the Northwest Atlantic. **Fuentes-Pardo, AP**, C Bourne, R Singh, H Benoit, G McCracken and DE

Ruzzante. Canadian Society of Ecology and Evolution (CSEE) 2017 Annual Meeting. University of Victoria, Victoria, BC (Canada)

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.

July 2016 Fuentes-Pardo et al. 2016 Annual Symposium of the Fisheries Society of the British Isles, Bangor University, Wales, UK

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.

OTHER EVIDENCE OF IMPACT

1) PEER REVIEW ACTIVITIES

Journals: American Naturalist, Evolution, Molecular Ecology, Proceedings of the Royal Society of London B, Ecological Applications, Canadian Journal of Fisheries and Aquatic Sciences, Marine Ecology Progress Series, Marine Biology, Oikos, Biol. J. Linnean Society, Journal of Fish Biology, Aquaculture, Hereditas, Fishery Bulletin, ICES Journal of Marine Science.

Granting Agencies: NSF – USA, NERC – UK, Sea Grant College Program, University of Maine and University of New Hampshire – USA; Alaska Sea Grant College Program, University of Alaska, Fairbanks – USA; CANON-AAAS PhD competition fund

2) SYMPOSIA ORGANIZING COMMITTEE

- **2010:** Convener, Symposium: “Patagonia Phylogeography: Common Patterns Across Taxa” held at the “2010 Southern Connection Congress”, Universidad Nacional del Comahue, Bariloche, Argentina. February 2010.
- **2009:** Convener of workshop titled: “Paleogeography and Paleoclimatology of Patagonia: Effects on Biodiversity”, held at Universidad Nacional de La Plata (Argentina) in May 2009
- **2006:** Co-convener (w Gudrun Marteinsdottir (MRI - Iceland) and Peter Wright (Fisheries Research Services, MARLAB, Scotland, UK) of the 2006 Fisheries Society of the British Isles (FSBI) Annual meeting.
- **2003:** Co-convener (with L Bernatchez and P Bentzen of a symposium on the “Use of genetic markers for management and conservation: beyond population structure analyses”, organized for the American Fisheries Society 2003 Annual meeting, Quebec city in August 2003.
- **2001:** Co-convener (w Svein-Erik Fevolden, Norway) of a symposium on ‘Atlantic cod genetic structure: State of the Art’ for the 2001 Annual Science Conference (ASC) of ICES (International Council for the Exploration of the Sea), September 2001 in Oslo, Norway.
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Languages: English and Spanish