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Professional Profile

Dr. Stefansson is a scientist and an entrepreneur with a Ph.D. in genetics and an Executive MBA in business management. He has focused his career on different aspects of environmental sustainability, ranging from natural resource management to sustainable bioprocessing. His efforts have supported economic growth and created novel business opportunities. Prior to joining Exponent, he worked as a Research Associate and a Manager at Harvard University. He oversaw and managed grant applications, reporting, budgets, and financial forecasts to facilitate groundbreaking research on ancient DNA and microbiology.

While heading a population genetics laboratory at the Marine and Freshwater Research Institute in Reykjavik, Dr. Stefansson oversaw three large EU-funded projects. He advised the Government of Iceland, the International Council for the Exploration of the Sea (ICES), and the International Whaling Commission (IWC) on the sustainable management of natural resources across the globe. By employing the methods of ecology, genetics, and evolutionary biology, he researched the impact of paleoclimate change on the evolutionary history of animal species. He has also taken a multidisciplinary approach when forecasting the impact of anthropogenic climate change on marine protists.

Dr. Stefansson has worked at the intersection of academia and industry to spearhead an R&D program in northern Iceland. The goal of the work there was to increase the sustainability of fisheries and agriculture by developing microbial upstream bioprocesses that utilized organic waste for media formulation. These microbes synthesized healthy omega-3 fatty acids, which as his feasibility studies showed, could be developed as supplements for human consumption and in aquaculture.

Dr. Stefansson has worked on data analysis across several fields including genetics, ecology, experimental biology, human resource management, and finance. He has broad experience in bioinformatics, which has covered many different animal species as well as microbes. He has mined data from corporate and international sources (e.g. GenBank, NOAA) to obtain high-throughput genotypes and sequence data as well as phenotypic traits and physical data. He has invented his own methods to convert qualitative genotypes into quantitative numeric data to achieve comparison between unrelated data sets. Experimental design, multivariate analysis, and statistical and mathematical modeling to test hypotheses by applying a breadth of specialized software (including R packages) have been an integral part of his work as a practitioner.

Academic Credentials & Professional Honors

M.B.A., Executive Business Administration and Management, Reykjavik University, Iceland, 2006

Ph.D., Zoology, University College Cork (UCC), Ireland, 2001

B.Sc., Biology, University of Iceland, 1995

Awarded to the Reich Lab, Harvard University: Various ancient human DNA projects

– National Institute of Health, USA

– John Templeton Foundation, USA

– Paul Allen Family Foundation, USA

– Private funding, USA and EU

AVS R&D Fund of the Ministry of Fisheries and Agriculture, Iceland: Chemically controlled lipogenesis of microalgae for increased product yield

SSNV: Cultural Development Grant of Northwest Iceland for the publication of Iceview Magazine, Volume 1

SSNV: Cultural Development Grant of Northwest Iceland for the publication of Iceview Magazine, Volume 2

SSNV: Cultural Development Grant of Northwest Iceland for the publication of Iceview Magazine, Volume 3

Ministry of Industries and Innovation, Iceland: Examination of the feasibility of obtaining products from heterotrophic microalgae (Thraustochytriaceae) in culture

The Icelandic Center for Research: Utilization of by-products from fisheries and agriculture to formulate media for heterotrophic microalgae

The Icelandic Center for Research: Scaling up of cultures for the production of polyunsaturated omega-3 fatty acids using heterotrophic microalgae

AVS R&D Fund of the Ministry of Fisheries and Agriculture, Iceland: Examination of the viability of obtaining products from heterotrophic microalgae (Thraustochytriaceae) in culture

SSNV: Economic Development Fund, Iceland: Utilization of by-products from fish processing for media formulation for heterotrophic microalgae

AVS R&D Fund of the Ministry of Fisheries and Agriculture, Iceland: Production of high-value products from macro algae

BioVal, Regional Government of Valencia, Spain: Development of biosensors

Programa Torres Quevedo, Ministerio de Education y Ciencia, Spain: Development of biosensors

University College Cork, Ireland: Ph.D. fully funded

EU-COMETT Programme, University Enterprise Training Partnership, EU: Student grant

Training and Mobility of Researcher Programme (TMR) of the EU: Student grant

The Icelandic Center for Research: Several grants for laboratory equipment and infrastructure

MFRI, Iceland: Several grants for research on the population genetics and the evolution of redfish

MFRI, Iceland: The use of molecular genetics in the breeding of halibut for culture

Academic Appointments

Research Manager and Research Associate, Harvard University, 2020 – 2023

Research Fellow, University of Akureyri, Iceland, 2011 – 2019

Senior Scientist, Marine and Freshwater Research Institute, Iceland, 2000 – 2007

Research Associate, University College Cork, Ireland, 1995 – 2000

Prior Experience

Research Manager and Research Associate, Harvard University, 2020 – 2023

Scientific Consultant, nList, 2019 – 2020

Research Fellow, University of Akureyri & BioPol Ltd., Iceland, 2011 – 2019

Founder and Managing Editor, Iceview Magazine, Iceland, 2015 – 2018

Chief Scientific Officer, Biosensores, S.L., Spain, 2009 – 2011

Project Manager, Office of the CEO, University Hospital of Iceland, 2007 – 2009

Senior Scientist, Marine and Freshwater Research Institute, Iceland, 2000 – 2007

Research Associate, University College Cork, Ireland, 1995 – 2000

Professional Affiliations

Association of University Teachers in Akureyri, Iceland, Member

Icelandic Confederation of University Graduates, Reykjavik, Iceland, Member

The Ecological Society of Iceland, Member

Nordic Lipidforum, Scandinavia, Member

nList Publishing, Chair of the Board

Park Ltd., Board of Directors

European funded projects on redfish and cod, Member of Delegations

Icelandic Delegation on redfish stock structure at the International Council for the Exploration of the Sea (ICES), Member

Icelandic Delegation of Stock Identity and Management Units of Redfish (SGSIMUR), ICES, Member

University of Iceland, Department of Biology, Board Member

University of Iceland, Department of Biology, Educational Committee, Member

Culture Committee of Skagastrond, Member

Health Board of the District of Kopavogur, Member

Kopavogur Institute of Education, Board Member

Languages

Icelandic

Spanish (Spain)

Publications

Peer-reviewed publications

H. Eiríksdóttir, M. Örn Stefánsson, H. Einarsson. Development of Growth Media from Agricultural By-Products for Cultivation of PUFA-Producing *Sicyodochytrium minutum*. *Marine Drugs* 2021, 20, 8.

M. Ö. Stefánsson, S. Baldursson, K. P. Magnússon, A. Eypórsdóttir, H. Einarsson. Isolation, Characterization and Biotechnological Potentials of Thraustochytrids from Icelandic Waters. *Marine Drugs* 2019, 17, 449.

R. M. Higgins, B. S. Danilowicz, J. A. Balbuena, A. K. Daniélsdóttir, A. J. Geffen, W. G. Meijer, J. Modin, F. E. Montero, C. Pampoulie, D. Perdiguero-Alonso, A. Schreiber, M. Ö. Stefánsson, B. Wilson. Multi-disciplinary fingerprints reveal the harvest location of cod *Gadus morhua* in the northeast Atlantic. *Marine Ecology Progress Series* 2010, 404, 197–206.

M. Ö. Stefánsson, T. Sigurdsson, C. Pampoulie, A. K. Daniélsdóttir, B. Thorgilsson, A. Ragnarsdóttir, D. Gíslason, J. Coughlan, T. Cross, L. Bernatchez. Pleistocene genetic legacy suggests incipient species of *Sebastes mentella* in the Irminger Sea. *Heredity* 2009, 102, 514–24.

A. K. Daniélsdóttir, D. Gíslason, K. Kristinsson, M. Ö. Stefánsson, T. Johansen, C. Pampoulie. Population Structure of Deep-Sea and Oceanic Phenotypes of Deepwater Redfish in the Irminger Sea and Icelandic Continental Slope: Are They Cryptic Species? *Transactions of the American Fisheries Society* 2008, 137, 1723–1740.

C. Pampoulie, M. Ö. Stefánsson, T. D. Jörundsdóttir, B. S. Danilowicz, A. K. Daniélsdóttir. Recolonization history and large-scale dispersal in the open sea: the case study of the North Atlantic cod, *Gadus morhua* L. *Biological Journal of the Linnean Society* 2008, 94, 315–329.

C. Pampoulie, P. Steingrund, M. Ö. Stefánsson, A. K. Daniélsdóttir. Genetic divergence among East Icelandic and Faroese populations of Atlantic cod provides evidence for historical imprints at neutral and non-neutral markers. *ICES Journal of Marine Science* 2008, 65, 65–71.

M. Ö. Stefánsson, C. Pampoulie, B. Thorgilsson, A. Ragnarsdóttir, D. Gíslason, A. K. Daniélsdóttir, T. Sigurðsson. Natural selection and adaptation of the deep-sea redfish *Sebastes mentella*. *Journal of fish biology* 2006, 69, 235–235.

C. Pampoulie, T. D. Jörundsdóttir, A. Steinarrson, G. Pétursdóttir, M. Ö. Stefánsson, A. K. Daniélsdóttir. Genetic comparison of experimental farmed strains and wild Icelandic populations of Atlantic cod (*Gadus morhua* L.). *Aquaculture* 2006, 261, 556–564.

M. Ö. Stefánsson, C. Pampoulie. The influence of depth in fishery management: evidence from redfish (*Sebastes mentella*) and cod (*Gadus morhua*). *Journal of Fish Biology* 2006, 69, 256–256.

T. Cross, J. Coughlan, G. Burnell, M. Cross, E. Dillane, M. Stefánsson, N. Wilkins. Utility of microsatellite loci for detecting reduction of variation in reared aquaculture strains compared with wild progenitors and also as genetic "tags" in breeding programmes: evidence from abalone, halibut and salmon. *Aquaculture* 2005, 247, 3–33.

M. Ö. Stefánsson, R. D. Fitzgerald, T. F. Cross. Growth, feed utilization and growth heterogeneity in juvenile turbot *Scophthalmus maximus* (Rafinesque) under different photoperiod regimes. *Aquaculture Research* 2002, 33, 177–188.

A. Langston, R. Hoare, M. Stefánsson, R. Fitzgerald, H. Wergeerland, M. Mulcahy. The effect of temperature on non-specific defence parameters of three strains of juvenile Atlantic halibut (*Hippoglossus hippoglossus* L.). *Fish & Shellfish Immunology* 2002, 12, 61–76.

J. Coughlan, M. Ö. Stefánsson, P. Galvin, E. Dillane, R. FitzGerald, T. Cross. Isolation and characterization of 11 microsatellite loci in Atlantic halibut (*Hippoglossus hippoglossus* L.). *Molecular Ecology* 2000, 9, 822–824.

T. M. Jonassen, A. K. Imsland, R. Fitzgerald, S. W. Bonga, E. V. Ham, G. Naevdal, M. O. Stefánsson, S. O. Stefánsson. Geographic variation in growth and food conversion efficiency of juvenile Atlantic halibut related to latitude. *Journal of Fish Biology* 2000, 56, 279–294.

M. Ö. Stefánsson, A. K. Imsland, M. D. Jenssen, T. M. Jonassen, S. Stefánsson, R. FitzGerald. The effect of different initial size distributions on the growth of Atlantic halibut. *Journal of Fish Biology* 2000, 56, 826–836.

Industry journals

M. Ö. Stefánsson. The search for the origin of the redfish stocks (Icl. Leitin að uppruna karfastofnanna). *RANNÍS blaðið* 2007, 4, 20.

M. Ö. Stefánsson. Oceanic redfish: Genotypes show two different populations (Icl. Úthafskarfinn: Rannsókn á arferð sýnir eindregið tvo stofna). *Fiskifréttir* 2006, 24, 8.

M. Ö. Stefánsson. Three main stocks of redfish (Icl. Þrír megnin stofnar karfa). *Fiskifréttir* 2005, 23, 9.

Technical reports and advice

M. Stefánsson, Effective management structure for the Reich Lab: Direction, Tech. Rep., Harvard University, 2021.

D. Reich, Y.-C. Liu, J. Sedig, K. Sirak, S. Mallick, M. Stefánsson, M. Pietruszewsky, R. Pinhasi, Report on DNA Data Obtained from an Ancient Individual from New Caledonia, Tech. Rep., Harvard University, 2021.

M. Ö. Stefánsson, K. Zech, H. G. Ólafsson, Chemically controlled lipogenesis of marine protists for increased products processing, Tech. Rep., AVS R&D Fund of the Ministry of Fisheries and Agriculture, Sauðárkrúkur, Iceland, 2020.

M. Ö. Stefánsson, K. Zech, Chemical induced lipogenesis of *Sicyodochytrium minutum* strain St30: Optimizing and upscaling fermentations, Tech. Rep., AVS R&D Fund of the Ministry of Fisheries and Agriculture, Sauðárkrúkur, Iceland, 2020.

M. Ö. Stefánsson, K. Zech, Chemically induced lipogenesis of the *Sicyodochytrium minutum* strain St30:

Screening of different chemicals, Tech. Rep., AVS R&D Fund of the Ministry of Fisheries and Agriculture, Sauðárkrúkur, Iceland, 2020.

M. Ö. Stefánsson, K. Zech, The influence of different chemicals on the growth and lipogenesis of *Sicyodochytrium minutum* strain St30 from Icelandic waters, Tech. Rep., AVS R&D Fund of the Ministry of Fisheries and Agriculture, Sauðárkrúkur, Iceland, 2020.

M. Ö. Stefánsson, S. Scully, J. Örylgsson, Growth performance of *Sicyodochytrium minutum* strain St30 fermented on macroalgae fragments, Tech. Rep., AVS R&D Fund of the Ministry of Fisheries and Agriculture, Sauðárkrúkur, Iceland, 2017.

M. Ö. Stefánsson, K. Zech, H. G. Ólafsson, I. G. Sigurðarson, H. Einarsson, Examination of the viability of obtaining products from heterotrophic microalgae (*Thraustochytriaceae*) in culture, Tech. Rep., AVS R&D Fund of the Ministry of Fisheries and Agriculture, Sauðárkrúkur, Iceland, 2015.

M. Ö. Stefánsson, K. Zech, H. Einarsson, Optimization of protein autolysate from cod by-products for the growth of the *Sicyodochytrium minutum* strain St30, Tech. Rep., AVS R&D Fund of the Ministry of Fisheries and Agriculture, Sauðárkrúkur, Iceland, 2015.

K. Zech, M. Ö. Stefánsson, Determination of lipid classes and total lipid content of *Thraustochytrid* sp. cultures, Tech. Rep., AVS R&D Fund of the Ministry of Fisheries and Agriculture, Sauðárkrúkur, Iceland, 2015.

M. Ö. Stefánsson, K. Zech, Scale-up of cultures of heterotrophic microalgae for the production of ω -3 fatty acids, Tech. Rep., AVS R&D Fund of the Ministry of Fisheries and Agriculture, Sauðárkrúkur, Iceland, 2015.

M. Ö. Stefánsson, K. Zech, H. Sveinsdóttir, Utilization of by-products from fish processing for media formulation for heterotrophic microalgae, Tech. Rep., SSNV Economic development fund, Hvammstangi, Iceland, 2015.

M. Ö. Stefánsson, H. Eiríksdóttir, L. R. Jónsdóttir, H. G. Ólafsson, H. Einarsson, Examination of the feasibility of obtaining products from heterotrophic microalgae (*Thraustochytriaceae*) in culture, Tech. Rep., Ministry of Industries and Innovation, Reykjavík, Iceland, 2013.

M. Ö. Stefánsson, H. G. Ólafsson, H. Einarsson, Research Report: Production of omega-3 polyunsaturated fatty acids using microalgae, Innovation Center Iceland, Reykjavík, 2013.

M. Ö. Stefánsson, I. Novo-Perez, T. Díez-Caballero-Aranu, Automated biosensor based on magnetic particle as renewable active surface for the detection and quantification of gas phase molecules and microorganisms: Application for citizen security and bioterrorism, Tech. Rep., submitted to the Ministry of Defence, Government of Spain, 2009.

G. A. Víkingsson, D. Ólafsdóttir, Þ. Gunnlaugsson, S. Halldórsson, A. Galan, V. Svansson, M. Kjeld, C. Pampoulie, D. Gíslason, G. Auðunsson, H. Pálmadóttir, H. Gunnlaugsdóttir, M. Ö. Stefánsson, S. Hjartarsdóttir, Research programme on common minke whales (*Balaenoptera acutorostrata*) in Icelandic waters, Tech. Rep., Paper presented at the International Whaling Commission (IWC) Scientific Meeting. IWC/SC/56/O10, 2007.

M. Ö. Stefánsson, J. Reinert, Þ. Sigurðsson, K. Kristinsson, K. Nedreaas, Population structure of *S. mentella* in the North Atlantic with regard to international waters in the Norwegian Sea., Tech. Rep., Arctic Fisheries Working Group and North-Western Working Group. ICES AFWG/WD19, 2007.

M. Ö. Stefánsson, J. Reinert, Þ. Sigurðsson, K. Kristinsson, K. Nedreaas, Population structure of *S. mentella* in the North Atlantic with regard to international Norwegian waters in the Norwegian Sea: Spatial and temporal dimensions, Tech. Rep., Stock Identification Methods Working Group August 2007. ICES

SIMWG/WD1, 2007.

G. A. Víkingsson, D. Ólafsdóttir, Þ. Gunnlaugsson, S. Halldórsson, A. Galan, V. Svansson, M. Kjeld, C. Pampoulie, D. Gíslason, G. Auðunsson, H. Pálmadóttir, H. Gunnlaugsdóttir, M. Ö. Stefánsson, S. Hjartarsdóttir, Research programme on common minke whales (*Balaenoptera acutorostrata*) in Icelandic waters, Tech. Rep., A progress report May 2007. IWC SC/59/O16, 2007.

A. K. Daníelsdóttir, M. Bérubé, P. Palsböl, M. Ö. Stefánsson, B. Þorgilsson, A. Ragnarsdóttir, A. Árnason, Þ. Gunnlaugsson, D. Ólafsdóttir, N. Oien, L. Witting, C. Pampoulie, G. A. Víkingsson, Genetic stock structure of North Atlantic fin whales based on further analyses of microsatellite data, Tech. Rep., International Whaling Commission (IWC) Scientific Meeting, 26 May - 6 June 2006, St. Kitts and Nevis, Caribbean Sea. IWC SC/58/PFI7, 2006.

A. K. Daníelsdóttir, A. Árnason, C. Pampoulie, M. Ö. Stefánsson, G. A. Víkingsson, Reanalysis of North Atlantic fin whale allozyme and carbonic anhydrase data, Tech. Rep., International Whaling Commission (IWC) Scientific Meeting, 26 May - 6 June 2006, St. Kitts and Nevis, Caribbean Sea. IWC SC/58/PFI8, 2006.

A. K. Daníelsdóttir, M. Bérubé, P. Palsböl, M. Ö. Stefánsson, B. Þorgilsson, T. D. Jörundsdóttir, A. Ragnarsdóttir, A. Árnason, Þ. Gunnlaugsson, D. Ólafsdóttir, N. Öien, L. Witting, C. Pampoulie, G. A. Víkingsson, Genetic stock delineation of fin whales, Tech. Rep., Joint North Atlantic Marine Mammal Commission (NAMMCO) and International Whaling Commission (IWC) Scientific workshop on the catch history, stock structure and abundance of North Atlantic fin whales, 23 - 26 March, Iceland. SC/14/FW/3 - SC/M06/FW5, 2006.

G. A. Víkingsson, D. Ólafsdóttir, Þ. Gunnlaugsson, S. Halldórsson, A. Galan, V. Svansson, E. Jörundsson, M. Kjeld, K. Daníelsdóttir, D. Gíslason, G. Auðunsson, H. Pálmadóttir, H. Gunnlaugsdóttir, B. Þorgilsson, M. Ö. Stefánsson, S. Hjartarsdóttir, D. Pike, Research programme on common minke whales (*Balaenoptera acutorostrata*) in Icelandic waters, Tech. Rep., A progress report presented at the International Whaling Commission (IWC) May 2006. IWC/SC/58/O20, 2006.

G. A. Víkingsson, D. Ólafsdóttir, Þ. Gunnlaugsson, S. Halldórsson, A. Galan, V. Svansson, E. Jörundsson, M. Kjeld, K. Daníelsdóttir, D. Gíslason, G. Auðunsson, B. Þorgilsson, M. Ö. Stefánsson, S. Hjartarsdóttir, G. Þórðarson, D. Pike, Research programme on common minke whales (*Balaenoptera acutorostrata*) in Icelandic waters, Tech. Rep., A progress report May 2005 presented at the International Whaling Commission (IWC) Scientific Meeting, 30 May - 8 June 2005, Ulsan, Republic of Korea. IWC 2005 SC/57/O14, 2005.

M. Ö. Stefánsson, D. Gíslason, B. Þorgilsson, A. Ragnarsdóttir, A. K. Daníelsdóttir, Þ. Sigurðsson, Population structure of *S. mentella* within and around the Irminger Sea, Tech. Rep., ICES Advisory Committee on Fishery Management. ICES CM 2005/ACFM:10 WD7, 2005.

M. Ö. Stefánsson, D. Gíslason, B. Þorgilsson, A. Ragnarsdóttir, C. Pampoulie, V. Chosson, T. D. Jörundsdóttir, A. K. Daníelsdóttir, Þ. Sigurðsson, Depth as a barrier to gene-flow in *S. mentella* within the Irminger Sea, Tech. Rep., ICES Advisory Committee on Fishery Management. ICES CM 2005/ACFM:21 WD32, 2005.

A. K. Daníelsdóttir, M. Ö. Stefánsson, B. Þorgilsson, T. D. Jörundsdóttir, A. Ragnarsdóttir, A. Árnason, Þ. Gunnlaugsson, G. A. Víkingsson, D. Ólafsdóttir, M. Bérubé, P. Palsböl, N. Öien, L. Witting, C. Pampoulie, Genetic analysis of North Atlantic fin whales (*Balaenoptera physalus*): Is there more than one breeding unit at the feeding ground west off Iceland?, Tech. Rep., Paper presented at the International Whaling Commission (IWC) Scientific Meeting, 30th May - 8th June 2005, Ulsan, Republic of Korea. IWC SC/57/PFI4, 2005.

A. K. Daníelsdóttir, B. Þorgilsson, M. Ö. Stefánsson, A. Ragnarsdóttir, Þ. D. Jörundsdóttir, C. Pampoulie, The Norwegian/Icelandic DNA Register, Tech. Rep., Paper presented at the International Whaling

Commission meeting of the specialist group on the DNA register/market sampling scheme approach (IWC SGDNA), the Scripps Institute of Oceanography, La Jolla, California, USA, 7th - 9th March 2005. IWC/N05/RMSWG/SGDNA04, 2005.

M. Ö. Stefánsson, D. Gíslason, B. Þorgilsson, A. Ragnarsdóttir, C. Pampoulie, V. Chosson, Þ. D. Jörundsdóttir, A. K. Daniélsdóttir, Þ. Sigurðsson, Depth as a barrier to gene-flow in *S. mentella* within the Irminger Sea, Tech. Rep., North-Western Working Group meeting in Copenhagen, Denmark, 26 April - 5 May 2005. ICES/WD27, 2005.

K. H. Nedreaas, Y. Bakay, P. Carreau, G. Dahle, S.-E. Fevolden, D. Gíslason, D. Gunderson, H. Joensen, T. Johansen, K. Jørstad, K. Kristinsson, S. P. Melnikov, G. N. Nævdal, G. Novikov, J. Reinert, F. Saborido-Rey, C. Schmidt, J. M. Sévigny, T. Sigurdsson, M. Ö. Stefánsson, J. Trautner, Report of the Study Group on Stock Identity and Management Units of Redfishes (SGSIMUR), Tech. Rep., ICES Advisory Committee on Fishery Management. ICES CM 2005/ACFM:10, 2004.

G. A. Víkingsson, D. Ólafsdóttir, Þ. Gunnlaugsson, S. Halldórsson, A. Galan, V. Svansson, E. Jörundsson, M. Kjeld, A. K. Daniélsdóttir, D. Gíslason, G. Auðunsson, B. Þorgilsson, M. Ö. Stefánsson, Research programme on common minke whales (*Balaenoptera acutorostrata*) in Icelandic waters, Tech. Rep., A progress report presented at the International Whaling Commission (IWC) Scientific Meeting, 29 June - 10 July 2004, Sorrento, Italy. IWC/SC/56/O10, 2004.

M. Ö. Stefánsson, D. Gíslason, Þ. Sigurðsson, A. Ragnarsdóttir, A. K. Daniélsdóttir, Final Report of the Genetic Subworkpackage 1.3 of the EU-REDFISH project, Tech. Rep., Contract number QLK5-CT1999-01222, 2004.

A. K. Daniélsdóttir, M. Ö. Stefánsson, B. Þorgilsson, A. Ragnarsdóttir, Þ. D. Jörundsdóttir, C. Pampoulie, The genetic structure of North Atlantic *Sebastes* species complex ("Vigo samples") based on microsatellite markers, Tech. Rep., paper presented at the genetics group meeting of the EU-REDFISH project, 19 - 22 May 2003, Hamburg, Germany, 2003.

C. Pampoulie, V. Chosson, M. Ö. Stefánsson, B. Þorgilsson, A. Ragnarsdóttir, A. K. Daniélsdóttir, Genetic structure of *Sebastes mentella* and *S. marinus* based on microsatellite loci, Tech. Rep., paper presented at an annual project meeting of the EU-REDFISH project 25 - 29 November 2003, Reykjavík, Iceland. WD14, 2003.

D. Gíslason, M. Ö. Stefánsson, B. Þorgilsson, A. Ragnarsdóttir, H. Joensen, J. Reinert, A. K. Daniélsdóttir, Microsatellite analysis of *S. mentella* samples from the Faroe Islands and adjacent areas, Tech. Rep., paper presented at an annual project meeting of the EU-REDFISH project 25 - 29 November 2003, Reykjavík, Iceland. WD13, 2003.

M. Ö. Stefánsson, J. Coughlan, R. D. FitzGerald, T. F. Cross, Microsatellite DNA variation in reared strains of turbot (*Scophthalmus maximus*) and Atlantic halibut (*Hippoglossus hippoglossus*) compared with wild samples, Tech. Rep., Annual Science Conference of the International Council for the Exploration of the Sea, Oslo, Norway, 26 - 29 September 2001. ICES CM 2001/L:16, 2001.

M. Ö. Stefánsson, Hatchery rearing of turbot larvae, Tech. Rep., Submitted to the Marine Institute of Ireland, 1998.

M. Ö. Stefánsson, Rearing and stripping of turbot broodstock, Tech. Rep., Submitted to the Marine Institute of Ireland, 1998.

M. Ö. Stefánsson, Diet of eels in culture, Tech. Rep., Submitted to the Marine Institute of Ireland, 1996.

Thesis supervision

H. Eiríksdóttir, Cultivation of PUFAs producing *Sicyoidochytrium minutum* strain using by-products from

agriculture, 90 credit thesis for Magister Scientiarum degree in Biotechnology. Supervisor Dr. Magnús Örn Stefánsson; Co-supervisor Professor Hjörleifur Einarsson. School of Business and Science, Faculty of Natural Resource Sciences, University of Akureyri, 2016.

H. Á. Þorleifsson, The utilization of protein from fish processing for the formulation of fermentation media for marine protists to produce omega-3 fatty acids, Tech. Rep., Supervisor Dr. Magnús Örn Stefánsson. The Icelandic Centre for Research, 2015.

S. K. Magnúsdóttir, The utilization of waste from fisheries and agriculture for the formulation of fermentation medium for marine protists, Tech. Rep., Supervisor Dr. Magnús Örn Stefánsson. The Icelandic Centre for Research, 2013.

C. Dineen, Master's thesis, Thesis for in part fulfillment of Magister Scientiarum degree in Aquaculture. Supervisor Dr. Richard D. FitzGerald; Co-supervisor Magnús Örn Stefánsson. Aquaculture Development Centre, University College Cork, Cork, Ireland, 1998.

Presentations

X. Morgan, M. Stefánsson, C. Huttenhower, The Harvard T.H. Chan School of Public Health Microbiome Collection Core in The fourth annual Harvard Chan Microbiome in Public Health Center: The Microbiome and Chronic Diseases.

M. Ö. Stefánsson, Biotechnology and fisheries management (Icl. Sjávarlíftækni og stjórnun fiskveiða), Symposium at the University of Akureyri, October 2011.

M. Ö. Stefánsson, Measuring and Managing Knowledge Assets at the University Hospital of Iceland (Icl. Skráning þekkingarverðmæta á Landspítala Háskólasjúkrahúsi), Symposium at the University of Akureyri, November 2008.

M. Ö. Stefánsson, Speciation: Redfish in the Irminger Sea (Icl. Tegundamyndun: Karfi í Irmingerhafi), Symposium at the Marine Research Institute, May 2006.

C. Pampoulie, Þ. D. Jörundsdóttir, A. Steinarsson, G. Pétursdóttir, M. Ö. Stefánsson, A. K. Daniëlsdóttir, Loss of genetic variability in the first generation of reared Icelandic cod, Fourth Symposium on "Ecological Genetics" in Antwerp (Belgium), 2 - 5 February 2005.

C. Pampoulie, Þ. D. Jörundsdóttir, M. Ö. Stefánsson, B. S. Danilowicz, A. K. Daniëlsdóttir, Is there an Icelandic reservoir for the genetic diversity of cod in Northeast Atlantic?, Fourth Symposium on "Ecological Genetics" in Antwerp (Belgium), 2 - 5 February 2005.

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C. Pampoulie, Þ. D. Jörundsdóttir, M. Ö. Stefánsson, A. K. Daníelsdóttir, History and genetic structure of cod in North-East Atlantic, Ecological and Evolutionary Ethology of Fishes, Sauðárkrúkur, Iceland, 17 - 21 August 2004.

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C. Pampoulie, Þ. D. Jörundsdóttir, M. Ö. Stefánsson, A. K. Daníelsdóttir, Genetic structure and traceability of cod in Northeast Atlantic, Symposium at the Marine Research Institute, Reykjavík, Iceland, 12 March 2004.

J. Coughlan, M. Ö. Stefánsson, T. F. Cross, A. K. Imsland, R. D. FitzGerald, Turbot broodstock selection and larval production: Genetic variability of farmed and wild turbot, Poster session at the Marine Institute of Ireland, of projects funded by the Marine OP for Ireland.

M. Ö. Stefánsson, The effect of different photoperiod regimes on the growth of turbot (*Scophthalmus maximus*), Turbot farming in Ireland - Future Prospects, Cork, Ireland, December 1996.

Project Experience

Dr. Stefánsson has a proven track record of self-starting both large and small-scale business incentives, including his own projects and companies. He led a group that achieved the first successful hatching of marine fish larvae in Ireland. While heading a laboratory at the MFRI, he oversaw three large EU-funded projects on sustainable natural resource management. As a project manager for the University Hospital of Iceland, he analyzed and presented human resources and financial data for the CEO and hospital executives, along with Iceland's Ministry of Finance. He spearheaded an R&D program on sustainable bioprocessing by developing microbial media from industrial, agricultural, and fishery waste. Dr. Stefánsson founded and managed a bilingual paperback series where nature is explored through art and literature.

Advisory Appointments

Natural Resource Management: Government of Iceland, 2000-2007, International Council for the Exploration of the Sea, 2004.

Editorships & Editorial Review Boards

Founder, publisher and managing editor

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Peer Reviews

Environmental Sustainability

Aquaculture International