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Professor
University of Iceland
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PERSONAL:

Born: Iceland, 8. January 1955.

Husband: Professor Kristberg Kristbergsson, Dept. Food Science and Human Nutrition, University of Iceland

EDUCATION:

Ph.D., Dept. Biological Sciences, Rutgers University, New Brunswick, New Jersey, USA. 1991.
Dissertation: Early life history variation of the mummichog (*Fundulus heteroclitus*): Egg size variation and its significance in reproduction and survival of eggs and larvae.

M.S., Dept. Biological Sciences, Rutgers University, New Brunswick, New Jersey, USA. 1984.
Dissertation: Electrophoretic and Morphological Variation in Icelandic Charr (*Salvelinus alpinus*).

B.S., Dept. Science and Engineering, University of Iceland, Reykjavík, Iceland. 1979.

ACADEMIC HONORS AND RESEARCH GRANTS:

Leathem Fund, Rutgers University, 1983, 1984, 1985, 1986.

Russel Fund, Rutgers University, 1985.

Raney Award, The Amer. Soc. of Ichthyologists and Herpetologists, 1985.

The American-Scandinavian Foundation, 1985.

NATO Science Fellowship, 1985.

Lerner-Gray Fund for Marine Research of the American Museum of Natural History, 1986.

New Jersey, Marine Science Consortium, Minigrant, 1986.

New Jersey State Mosquito Control Commission, 1986.

Summer Fellowship, Little Egg Inlet Marine Field Station, Rutgers University, 1986.

Icelandic Science Council, 1989, 1990, 1991

Icelandic Research Council, 1993, 1994, 1995, 1996, 1999-2002, 2002, 2003, 2001-2005

The Icelandic Research Fund 2006-2008

The Ministry of Fisheries Research fund 2007-2009, 2008-2010

Specific funding from the Ministry of Fisheries, annually during 1994-2003, 2007

European Commission, 1996-1997 (4FP), 1999-2001 (5FP: STEREO), 2001-2005 (5Fp: METACOD), 2005-2008 (6FP: FISHACE), 2006-2007 (6FP: GENIMPACT), 2007-2009 (7FP: FINE).

Ministry of Fisheries, AVS 2002, 2003, 2005, 2005, 2006-2008, 2007

University of Iceland, Research Fund 2004, 2005, 2006, 2007, 2008

PROFESSIONAL EXPERIENCE:

2001 – Present	PROFESSOR OF FISHERY SCIENCES, Department of Biology, University of Iceland.
1991-2001	SCIENTIST, Marine Research Institute of Iceland
2005-Present	ICES/GLOBEC working group on Cod and Climate Change
2004-2006	MEMBER of the Programme Committee for Global change and Ecosystems. Priority 6.3, European Commission, 6 th FP
2007-2009	NATIONAL EXPERT; Environment (including climate change). Priority 6; European Commission, 7 th FP
2006-Present	MEMBER of the Advisory group for Thematic priority 2 “Food, Agriculture and Biotechnology, European Commission, 7 th FP
1998-present	NAFO Working Group of Reproductive Potentials.
1996-Present	ICES Living Resources Science Committee
2006-2009	PARTNER. EU funded project MARIFISH “Coordination of European Marine Fisheries Research Programme”
2006-2009	COORDINATOR. Nationally funded project on “Improved gain and productivity of the lobster fishery”.
2005-2006	COORDINATOR. Nationally funded project on “Reproductive compatibility of wild and reared cod”.
2005-2006	COORDINATOR. Nationally funded project on “Evaluation of genetic and environmental impact of aquaculture activities on native populations”
2005-2007	PARTNER in the EU funded project GENIMPACT: Evaluation of genetic impact of aquaculture activities on native populations – A European network (6 th frame: 22802)
2005-2008	PARTNER in the Marie Curie project FishACE: Fisheries-Induced adaptive changes in exploited stocks; student network (6 th frame:5578).
2001-2005	COORDINATOR. EU funded project: QLRT – 2000 – 00953. METACOD: The role of sub-stock structure in the maintenance of cod metapopulations.

- 2001-2005 COORDINATOR. Nationally funded project on “The Population Structure of Cod in Icelandic Waters”
- 1993 – 2001 PRINCIPAL INVESTIGATOR AND PROGRAM LEADER: Marine Research Institute, Iceland. Reproduction and Recruitment of cod in Icelandic - The influence of stock structure and environmental conditions on the recruitment processes of cod.
- 1999-2001 COORDINATOR. Nationally funded project on “Cod Recruitment Processes – Integrating Stock and Environmental Effects”.
- 1998-2001 TASK LEADER AND HEAD OF THE ICELANDIC RESEARCH TEAM. EU funded project: FAIR-PL98-4122, “An operational model of the effects of stock structure and spatio-temporal factors on recruitment (STEREO)”.
- 1996-1997 TASK LEADER AND HEAD OF THE ICELANDIC RESEARCH TEAM. EU funded project: FAIR-CT95-0084, “Recruitment processes in cod and haddock: Developing new approaches”.
- 1991-1993 PRINCIPAL INVESTIGATOR Marine Research Institute, Iceland. Distribution and population dynamics of the Greenland halibut. Initiation of surveys that later developed into the autumn ground fish survey. Changes in stock structure and abundance during high fishing effort. Aging and stock assessment in 1991-1993.
- 1990-1992 CO-INVESTIGATOR, Marine Research Institute, Iceland. Tagging of spawning cod at local spawning sites East of the country.
- 1990-1991 CO - INVESTIGATOR, Marine Research Institute, Iceland. Distribution and abundance of the female Lump sucker. Modeling of the annual , seasonal and daily variation in catch per unit effort in coastal areas around Iceland.
- 1989-1990 CO - INVESTIGATOR, Marine Research Institute, Iceland. Eiders as a by catch in gill-nets employed by the lump sucker fishery: Estimates of mortality based on fisherman’s log-books.
- 1990-1991 PRINCIPAL INVESTIGATOR, Institute of Freshwater Fisheries, Iceland. Funded by the Icelandic Research Council. Genetic and morphological variation within and between Atlantic salmon populations from 32 Icelandic rivers and three fish farms. The genetic analysis was performed with electrophoresis and morphological analysis was based on distances within a size-free shape Truss network.
- 1989-1990 PRINCIPAL INVESTIGATOR, Institute of Freshwater Fisheries and the Marine Research Institute. Funded by the Icelandic Science Council. Morphometrical discrimination between parrs of three Atlantic salmon stocks. Morphological and meristic comparisons were made between salmon parrs at different developmental stages originating from rivers of different physical characteristics.

- 1987-1988 EDITORIAL ASSISTANT, *EVOLUTION*, International Journal of Organic Evolution.
- 1987 TEACHING ASSISTANT in Ichthyology, Dept. Biological Sciences, Rutgers University, NJ, USA.
- 1983-1986 GRADUATE ASSISTANT, Center for Coastal and Environmental Sciences, Rutgers University, NJ, USA. Research on reproduction and recruitment mechanism of coastal fishes.
- 1984 CO-INVESTIGATOR, Center for Coastal and Environmental Sciences, NJ, USA. Investigation of Management Alternatives for the Herring River Estuary (Cape Cod National Seashore, USA, National Parks).
- 1978-1979 RESEARCH ASSISTANT during summers. Dept. Biol. University of Iceland, Environmental effects on life cycles of *Simuliidae* spp.
- 1979 RESEARCH ASSISTANT during summers. Lake Thingvallavatn Research Program, Sampling for primary production estimates in Lake Thingvallavatn.

POST DOCTORAL FELLOWS

Presently employing 2 Post Docs

Kai Logemann, Oceanographic modeler

Tim Garbowski, Fish Ecologist

GRADUATE STUDENTS

PhD ongoing:

Heidi Pardoe: Fisheries-Induced adaptive changes in the Icelandic cod stock.

Klara Jakobsdóttir: Historical variation in genetic diversity within the Icelandic cod stock.

Jónas Páll Jónasson: Effects of currents and other environmental factors on recruitment of cod in Icelandic waters.

Heather Philp: Improved gain and productivity of the lobster fishery in Iceland

PhD completed:

Ingibjörg Jónsdóttir : Population structure of cod based on otolith shape and chemistry (completed 7. September 2007)

MS- ongoing:

Sigríður Kristinsdóttir: Marine Parks in Icelandic waters.

Elfur Erna Harðardóttir: Behaviour, migration and growth of cod in relation to otolith microstructure.

Erna Óskarsdóttir: Spatial and temporal distribution of five species of chimeras (Pisces: Chimaeriformes) in Icelandic waters

Lilja Stefánsdóttir: Climate effects and changes in composition of deep water fish fauna in Icelandic waters

Lísa Anne Libungan. Adaptation of cod to different environmental conditions: Comparison of growth of larvae from two substocks.

MS – completed:

Kristín Harðardóttir: Atresia in Icelandic cod (*Gadus morhua* L.) prior to and during spawning. University of Bergen, Norway (completed 2001).

Anna Rósa Böðvarsdóttir: Aquaculture in Iceland: Licensing Process, Monitoring and Environmental Impact Assessment. Univ. Iceland (completed 2004)

Ásgeir Gunnarson: Growth, maturity and fecundity of wolffish (*Anarhichas lupus* L.) in Icelandic waters. Univ. Iceland (completed 2004)

Gróa Þ. Pétursdóttir: Discrimination between Icelandic cod (*Gadus morhua* L.) stocks from adjacent spawning grounds based on otolith growth and shape. Univ. Iceland (completed 2004).

Jónas P. Jónasson: The effects of environment and fisheries on the status of Iceland scallop. Univ. Iceland (completed 2005).

Kristinn H. Sæmundsson: Geographic distribution and dispersal of juvenile Icelandic cod (*Gadus morhua*). Univ. Iceland (completed 2005).

Leo A. Guðmundsson. Spatial and temporal genetic composition of Atlantic salmon (*Salmo salar*) in River Elliðaár, Iceland. (completed 2007)

Hlynur Ármannsson. Comparisons of life history characteristic between saithe populations (*Pollachius virens*) in Icelandic and Canadian waters (completed 2007)

Sólveig Krista Einarsdóttir: Effects of condition and growth on maturity of haddock (completed 2008)

SYMPOSIUM/THEME SESSION CONVENER OR MEMBER OF STEERING COMMITTEES

Steering Committee: Ecosystem Dynamics in the Norwegian Sea and Barents Sea. Univ. Tromsø Norway, 12-15 March, 2007.

Co-convener: Fish population structure: implications to conservations. The Fishery Society of British Isles. Annual International Symposium 2006. Univer. Aberdeen July 10-14, 2006.

Co-convener: Theme Session on Advances in Reproductive Biology: Methodology and Applications for Fisheries Science (Q); ICES Annual Science Conference, Aberdeen, 2005.

Scientific committee: Ecological and Evolutionary Ethology of Fishes, EEEF 2004 at Saudarkrokur, Iceland.

Steering committee: 37th European Marine Biology Symposium, Univ. Iceland, August 2002, Reykjavik, Iceland.

Co-convener: Theme session on Cod and Haddock Recruitment Processes – Integrating Stock and Environmental Effects at the ICES Annual Science Conference 1999.

KEY NOTES

Has man learned to manage cod? IMR/PINRO Symposium, Polar Environment Centre, Tromsø, 21-23 August, 2007

The importance of sub-stock units in spawning and stock structure of cod at Iceland. MRI 40th Anniversary Symposium Reykjavik, 7. November 2005

Gain and productivity of the cod fishery in Iceland. Inst. Biology, Anniversary Symposium in Reykjavik, 19.-20. November, 2004.

The effect of climate variability on growth, maturity and recruitment. ICES symposium on the influence of climate change on north Atlantic fish stocks. Bergen, Norway 11.-14. May 2004.

Can we improve stock-recruitment relationships by including maternal effects. 27th Annual Larval Fish Conference. 20-23. August, 2003, Santa Cruz, California, USA

PEER REVIEWED PUBLICATIONS

- Gunnarsson, Á., E. Hjörleifsson, K. Thórarinsson and G. Marteinsdóttir. **2008**. Growth, Maturity, and Fecundity of spotted wolffish *Anarhichas minor* in Icelandic Waters. *J. Fish Biol.* *In press*.
- Jonasson, J. P., Gunnarsson, B. and Marteinsdóttir, G. **2008**. Abundance and growth of larval cod (*Gadus morhua*) in relation to variable environmental condition west of Iceland. *Deep Sea Research.* *In press*.
- Jonsdóttir, I. S., G. Marteinsdóttir and C. Pampoulie. **2008**. Empirical evidence for the lack of consistent relationship between *Pan I* genotypes and growth in Atlantic cod (*Gadus morhua* L.) around Iceland. *Marine Biology* 154:867–874
- Marteinsdóttir, G. and Pardoe, H. **2008**. Effects of fishing on inter and intra stock diversity of marine resources. 5th WFC memorial book "Fisheries for Global Welfare and Environment". Terra Scientific Publishing Company (Tokyo)
- Pampoulie, C., K. B. Jakobsdóttir, G. Marteinsdóttir, V. Thorsteinsson. **2008**. Are vertical behaviour pattern related to the Pantophysin locus in the Icelandic cod (*Gadus morhua* L.)? *Behavioral Genetics.* *Behav Genet.* 38:76–81.
- Pardoe, H., G. Thordarsson, G. Marteinsdóttir. **2008**. Spatial and temporal trends in condition of Atlantic cod (*Gadus morhua* L.) on the Icelandic shelf. *MEPS* *In press*
- Armannsson, H., S.Th. Jonsson, J. D. Neilson, and G. Marteinsdóttir **2007**. Distribution and migration of saithe (*Pollachius virens*) around Iceland inferred from mark-recapture studies. *ICES J. Mar. Sci.* 1006-1016
- Brickman, D., G. Marteinsdóttir, K. Logemann and I. Harms. **2007**. Drift probabilities for Icelandic cod larvae. *ICES JMS* 64: 49-59
- Brickman, D., Taylor, L., Gudmundsdóttir, A., and Marteinsdóttir, G. **2007**. Optimized Biophysical Model for Icelandic Cod Larvae. *Fisheries Oceanography.* 16:448-458.
- Brickman, Gudrun Marteinsdóttir, Lorna Taylor. **2007**. Formulation and Application of an Efficient Optimized Biophysical Model. *Marine Ecology Progress Series* 347: 275-284
- Jónasson, J. P., Thorarinsdóttir, G., Eiriksson, H., Solmundsson, J. and Marteinsdóttir, G. **2007**. The collapse of Iceland scallop (*Chlamys islandica*) fisheries in Breidifjörður, West Iceland. *ICES J. Mar Sci.* 64: 298-308

- Jonsdottir, I, S. Campana and G. Marteinsdottir. **2007**. Contribution of different spawning components to the mixed stock fishery of cod in Icelandic waters. ICES J. Mar. Sci. 64(9):1749-1759
- Gunnarsson, Á., H. Einarsson, K. Thorarinsson and G. Marteinsdottir. **2006**. Growth, maturity and fecundity of wolffish (*Anarhichas lupus* L.) in Icelandic waters. J. Fish. Biol. 68:1158-1176
- Jonsdottir, I, S. Campana and G. Marteinsdottir. **2006**. Discrimination of spawning groups of Icelandic cod (*Gadus morhua*) using otolith shape and population parameters. ICES J. Mar. Sci. 63:1501-151
- Jonsdottir, I, S. Campana and G. Marteinsdottir. **2006**. Stock structure of Icelandic cod (*Gadus morhua*) based on otolith chemistry. J. Fish Biol. 69 (Supp. C):136-150
- Marteinsdóttir, G. **2006**. Mikilvægi stórþorsks í viðkomu þorskstofnsins við Ísland. Náttúrufræðingurinn 74:3-10 (*In Icelandic*)
- Pampoulie, C., D. E. Ruzzante, V. Chosson, Th. Jörundóttir, L. Taylor, V. Þorsteinsson, A. K. Daniélsdóttir and G. Marteinsdóttir. **2006**. The genetic structure of Atlantic cod (*Gadus morhua*) around Iceland: insight from microsatellites, the *Pan I* locus, and tagging experiments. Can. J. fish. Aquat. Sci. 63:2660-2674
- Petursdottir, G., Begg, G., and Marteinsdottir, G. **2006**. Discrimination between Icelandic cod (*Gadus morhua* L.) populations from adjacent spawning areas based on otolith growth and shape. Fisheries Research 80:182-189
- Scott, B., G. Marteinsdóttir, G. Begg, P. Wright and O.S.Kjesbu. **2006**. Effects of population size/age structure, condition and temporal dynamics on reproductive output in Atlantic cod (*Gadus morhua*). Ecological Modelling. 191:383-415
- Jónasson, J. P., G. G. Thorisdottir, H. Einarsson, and G. Marteinsdottir. **2004**. Temperature tolerance of Iceland scallop, *Chlamys islandica* (O.F. Müller) under controlled experimental conditions. Aquaculture: 35: 1405-1414
- Begg, A. G. and G. Marteinsdottir. **2003**. Spatial and temporal partitioning of spawning stock biomass: effects of fishing on the composition of spawners. Fish. Res. 59:343-362
- Harðardóttir, K., O.S. Kjesbu and G. Marteinsdottir. **2003**. Atresia in Icelandic cod (*Gadus morhua* L.) prior to and during spawning. Fisker og Havet 12: 51-55.
- Lambert, Y., N. A. Yaragina, G. Kraus, G. Marteinsdottir P. J. Wright. **2003**. Correlation between reproductive characteristics and environmental and biological indices as alternative methods of estimating egg production. J.

Norhtwest Atlantic Fishery Science J. Norhtwest Atlantic Fishery Science 33:115-159

- Marshall, T.C., L. O'Brien, J. Tomkiewicz, M. J. Morgan, F. Saborido-Rey, F. Köster, J., G. Kraus, G. Marteinsdóttir, L. J. Morgan, F. Sabrido-Ray, J. Blanchard, D. Secor, P. Wright, N. Mukhina and H. Björnsson. **2003**. Developing alternative indices of reproductive potential for use in fishery management: Case studies for stocks spanning and information gradient. J. Norhtwest Atlantic Fishery Science 22:161-190
- Begg, A. G. and G. Marteinsdóttir. **2002**. Environmental and stock effects on spatial distribution and abundance of mature cod *Gadus morhua*. Mar. Ecol. Prog. Ser. 229:233-244
- Begg, G. A., and G. Marteinsdóttir. **2002**. Environmental and stock effects on spawning origins and recruitment of cod *Gadus morhua*. Mar. Ecol. Prog. Ser. 229:245-262
- Begg, G. A. and Marteinsdóttir, G. **2000**. Spawning origins of pelagic juvenile cod (*Gadus morhua*) inferred from spatially explicit age distributions: potential influences on year-class strength and recruitment. Mar. Ecol. Progr. Ser. 202:193-217
- Jónsdóttir, Ó. D. B., A. K. Imsland, A. K. Danielsdóttir, G. Marteinsdóttir and G. Nævdal. **2002**. Growth, age and genetic divergence of Atlantic cod *Gadus morhua* L. at two spawning sites off south Iceland. Fish. Res. 53:37-47.
- Marteinsdóttir, G. and G. A. Begg. **2002**. Essential relationships incorporating the influence of age, size and condition on variables required for estimation of reproductive potential in Atlantic cod *Gadus morhua* stocks. Mar. Ecol. Prog. Ser. 235:235-256.
- Marteinsdóttir, G., Gunnarsson, B. and Suthers, I. M. **2000**. Spatial variation in hatch date distributions and origin of pelagic juvenile cod in Icelandic waters. ICES J. Mar. Sci. 57:1184-1197
- Marteinsdóttir, G., A. Guðmundsdóttir, V. Þorsteinsson and G. Stefánsson. **2000**. Spatial variation in abundance, size composition and viable egg production of spawning cod (*Gadus morhua* L.) in Icelandic waters. ICES J. Marine Science 57:824-83
- Marteinsdóttir, G. and A. Steinarsson. **1998**. Maternal influence on the size and viability of Iceland cod (*Gadus morhua* L.) eggs and larvae. J. Fish. Biol. 52 (6) : 1241-1258.
- Marteinsdóttir, G. and K. Thorarinsson. **1998**. Improving the stock-recruitment relationship in Icelandic cod (*Gadus morhua* L.) by including age diversity of spawners. Can. J. Fish. Aquat. Sci. 55:1372-1377.

- Scott, B., G. Marteinsdóttir and P. Wright. **1999**. Potential effects of maternal factors on spawning stock - recruitment relationships under varying fishing pressure. *Can. J. Fish. Aquat. Sci.*: *Can. J. Fish. Aquat. Sci.* 56:1882-1890.
- Danielsdóttir, A.K., Marteinsdóttir, G., Árnason, F. and Guðjónsson S. **1997**. Genetic structure of wild and reared Atlantic salmon (*Salmo salar* L.) populations in Iceland. *ICES Journal of Marine Science* 54(6):986-997.
- Schopka, A.S. and G. Marteinsdóttir. **1996**. Ástand og afrakstur nytjablothfiska á Íslandsmiðum. Í Íslendingar, Hafið og Auðlindir Þess, ritstjóri Unsteinn Stefánsson. (*In Icelandic*)
- Marteinsdottir, G. and K. W. Able. **1992**. Influence of egg size on embryos and larvae of *Fundulus heteroclitus* (L.). *J. Fish Biol.* 41:883-896
- Marteinsdottir, G. and K. W. Able. **1988**. Geographic variation in egg size among population of the mummichog *Fundulus heteroclitus* (Pisces: Fundulidae). *Copeia* 1988(2): 471-478.
- Vrijenhoek, R. C., G. Marteinsdottir, and R. Schenck. **1987**. Genotypic and Phenotypic Aspects of Niche Diversification in Fishes, pp. 245-250. In: W. J. Matthews and D. C. Heins (eds.), *Community and Evolutionary Ecology of North American Stream Fishes*. Univ. Oklahoma Press, Norman

ARTICLES IN SYMPOSIUM PROCEEDINGS

- Begg, G. and G. Marteinsdóttir. 2000. Incorporating spawning origins of pelagic juvenile cod and environmental variation in the stock-recruitment relationship. *ICES CM* 2000/N:01
- Begg, G. and G. Marteinsdóttir. 1999. Historical spawning distribution and origin of pelagic juvenile cod (*Gadus morhua*) in Icelandic waters. *ICES CM* 1999/Y:28
- Gallego, A., M.R. Heath, P. Wright, and G. Marteinsdóttir. 1999. An empirical model of growth in the pelagic early life history stages of North Sea haddock. *ICES CM* 1999/Y:
- Harms, I. H., J. O. Backhaus, K. Logemann, D. Brickman, A. Gallego, M. Heath, H. Valdimarsson, G. Marteinsdottir. 2002. Modelling egg and larval transport around Iceland and Scotland in the frame of METACOD. *ICES/BLOBEC workshop on Transport of Cod Larvae*, Hillerød, Denmark, 2002
- Jonasson, J. P. Thorarinsdotti, G, Eiriksson, H., Solmundsson, J and Marteinsdottir, G. 2005. The effects of fishing and environment on the abundance and condition of

- Icelandic scallop (*Chlamys islandica*) in Breidafjörður. ICES CM 2005/O4
- Lambert, Y., O. S. Kjesbu, G. Kraus, G. Marteinsdóttir and A. Thorsen. 2005. How variable is the fecundity within and between cod stocks? ICES CM 2005/Q13
- Marteinsdóttir, G., D. Ruzzante and E. Eg Nielsen. 2005. History of the North Atlantic cod stocks. ICES CM 2005/A
- Marteinsdóttir, G. and H. Björnsson. 1999. Time and duration of spawning of cod in Icelandic waters. ICES CM 1999/Y:34
- Marteinsdóttir, G. B. Gunnarson, I. Suthers and A. Jónsdóttir. 1998. Spatial variation in birthday distributions and origin of pelagic juvenile cod in Icelandic waters. ICES CM 1998/DD4
- Marteinsdóttir, G. and A. Steinarsson. 1996. Variation in reproductive characteristics of cod: Effects of female properties on eggs and larvae. ICES CM 1996/G:34
- Marteinsdóttir, G. and G. Pétursdóttir. 1995. Spatial and temporal variation in reproduction of Icelandic cod at Selvogsbanki and nearby coastal areas. ICES CM 1995/G:15
- Marteinsdóttir, G. 1994. Age composition of the Icelandic cod stock and its effects on recruitment. 1994. 18th Annual Larval Fish Conference and Meeting of the Early Life History Section of the American Fisheries Society (Abstract).
- Marteinsdóttir, G., S. Jónasdóttir, and V. Þorsteinsson. 1993. Seasonal variation in egg size and its influence on egg and larval qualities of cod at Iceland. ICES 1993 Symposium on Cod and Climate Change No. 48.
- Scott, B. G. Marteinsdóttir, P. Wright and O. Kjesbu. 1999. Sensitivity of potential recruitment to stock structure in the presence of temporally varying survival. ICES CM 1999/Y:02
- Þorsteinsson, V. and G. Marteinsdóttir. 1998. Size specific time and duration of spawning of cod (*Gadus morhua*) in Icelandic waters. ICES CM 1998/DD5

Additionally over 40 Research and Technical reports and articles in Icelandic fishery magazines and newspapers