

Aziz S, Yaylayan V, St-Louis R, Aziz M, Kermasha S (2012) Structural Characterization of Phenolic Lipids Obtained By Transesterification of 3,4-Dihydroxyphenylacetic Acid And Krill Oil. *Pharmaceutical Biology* 50:648-648.

Babin M, Clement R, Gagnon J, Fontaine FG (2012) Homogeneous asymmetric transfer hydrogenation of ketones using a ruthenium catalyst anchored on chitosan : natural chirality at work. *New Journal of Chemistry* 36:1548-1551.

Babin M, Ruest A, Drouin G, Sirois K, Ouellet S, Gagnon J (2012) Regioselective pivaloylation of N-phthaloylchitosan : a promising soluble intermediate for chitosan chemistry. *Carbohydrate Research* 351:87-92.

Bahoura M, Simard Y (2012) Serial combination of multiple classifiers for automatic blue whale calls recognition. *Expert Systems With Applications* 39:9986-9993.

Balzano S, Gourvil P, Siano R, Chanoine M, Marie D, Lessard S, Sarno D, Vaultot D (2012) Diversity of cultured photosynthetic flagellates in the northeast Pacific and Arctic Oceans in summer. *Biogeosciences* 9:4553-4571.

Boulet M, Normandeau E, Bougas B, Audet C, Bernatchez L (2012) Comparative transcriptomics of anadromous and resident brook charr *Salvelinus fontinalis* before their first salt water transition. *Current Zoology* 58:158-170.

Bourgault D, Cyr F, Galbraith PS, Pelletier E (2012) Relative importance of pelagic and sediment respiration in causing hypoxia in a deep estuary. *Journal of Geophysical Research-Oceans* 117:C08033.

Bourgault D, Galbraith PS, Winkler G (2012) Exploratory Observations of Winter Oceanographic Conditions in the Saguenay Fjord. *Atmosphere-Ocean* 50:17-30.

Boutin S, Bernatchez L, Audet C, Derome N (2012) Antagonistic effect of indigenous skin bacteria of brook charr (*Salvelinus fontinalis*) against *Flavobacterium columnare* and *F. psychrophilum*. *Veterinary Microbiology* 155:355-361.

Bringue M, Rochon A (2012) Late Holocene paleoceanography and climate variability over the Mackenzie Slope (Beaufort Sea, Canadian Arctic). *Marine Geology* 291:83-96.

Briski E, Bailey SA, Casas-Monroy O, DiBacco C, Kaczmarek I, Levings C, MacGillivray ML, McKindsey CW, Nasmith LE, Parenteau M, Piercey GE, Rochon A, Roy S, Simard N, Villac MC, Weise AM, MacIsaac HJ (2012) Relationship between propagule pressure and colonization pressure in invasion ecology : a test with ships' ballast. *Proceedings of the Royal Society B-Biological Sciences* 279:2990-2997.

Brunelle CB, Larouche P, Gosselin M (2012) Variability of phytoplankton light absorption in Canadian Arctic seas. *Journal of Geophysical Research-Oceans* 117:C00G17.

Buitenhuis ET, Li WKW, Vaultot D, Lomas MW, Landry MR, Partensky F, Karl DM, Ulloa O, Campbell L, Jacquet S, Lantoin F, Chavez F, Macias D, Gosselin M, McManus GB (2012) Picophytoplankton biomass distribution in the global ocean. *Earth System Science Data* 4:37-46.

Cauchon-Voyer G, Locat J, St-Onge G, Leroueil S, Lajeunesse P (2012) Development and Potential Triggering Mechanisms for a Large Holocene Landslide in the Lower St. Lawrence Estuary. *Advances in Natural And Technological Hazards Research* 31:67-+.

Chapron E, Ledoux G, Simonneau A, Alberic P, St-Onge G, Lajeunesse P, Boivin P, Desmet M (2012) New Evidence of Holocene Mass Wasting Events in Recent Volcanic Lakes from the French Massif Central (Lakes Pavin, Montcineyre and Chauvet) and Implications for Natural Hazards. *Advances in Natural And Technological Hazards Research* 31:255-+.

Chavanne CP, Firing E, Ascani F (2012) Inertial Oscillations in Geostrophic Flow : Is the Inertial Frequency Shifted by  $\zeta/2$  or by  $\zeta$  ?. *Journal of Physical Oceanography* 42:884-888.

Collin A, Long B, Archambault P (2012) Merging land-marine realms : Spatial patterns of seamless coastal habitats using a multispectral LiDAR. *Remote Sensing of Environment* 123:390-399.

Coulombier T, Neumeier U, Bernatchez P (2012) Sediment transport in a cold climate salt marsh (St. Lawrence Estuary, Canada), the importance of vegetation and waves. *Estuarine Coastal And Shelf Science* 101:64-75.

Crespel A, Audet C, Bernatchez L, Garant D (2012) Effects of Rearing Environment and Strain Combination on Heterosis in Brook Trout. *North American Journal of Aquaculture* 74:188-198.

Dan Nguyen, Maranger R, Tremblay JE, Gosselin M (2012) Respiration and bacterial carbon dynamics in the Amundsen Gulf, western Canadian Arctic. *Journal of Geophysical Research-Oceans* 117:C00G16.

Darnis G, Robert D, Pomerleau C, Link H, Archambault P, Nelson RJ, Geoffroy M, Tremblay JE, Lovejoy C, Ferguson SH, Hunt BPV, Fortier L (2012) Current state and trends in Canadian Arctic marine ecosystems : II. Heterotrophic food web, pelagic-benthic coupling, and biodiversity. *Climatic Change* 115:179-205.

Defossez M, Saucier FJ, Myers PG, Caya D, Dumais JF (2012) Comparing Winter and Summer Simulated Estuarine Circulations in Foxe Basin, Canada. *Atmosphere-Ocean* 50:386-401.

Doiron K, Pelletier E, Lemarchand K (2012) Impact of polymer-coated silver nanoparticles on marine microbial communities : A microcosm study. *Aquatic Toxicology* 124:22-27.

Doyle SR, Momo FR, Claude Brethes J, Ferreyra GA (2012) Metabolic rate and food availability of the Antarctic amphipod *Gondogeneia antarctica* (Chevreux 1906) : seasonal variation in allometric scaling and temperature dependence. *Polar Biology* 35:413-424.

Durantou L, Rochon A, Ledu D, Masse G, Schmidt S, Babin M (2012) Quantitative reconstruction of sea-surface conditions over the last similar to 150 yr in the Beaufort Sea based on dinoflagellate cyst assemblages : the role of large-scale atmospheric circulation patterns. *Biogeosciences* 9:5391-5406.

Else BGT, Papakyriakou TN, Galley RJ, Mucci A, Gosselin M, Miller LA, Shadwick EH, Thomas H (2012) Annual cycles of  $pCO_2$  in the southeastern Beaufort Sea : New understandings of air-sea  $CO_2$  exchange in arctic polynya regions. *Journal of Geophysical Research-Oceans* 117:C00G13.

Estrada R, Harvey M, Gosselin M, Starr M, Galbraith PS, Straneo F (2012) Late-summer zooplankton community structure, abundance, and distribution in the Hudson Bay system (Canada) and their relationships with environmental conditions, 2003-2006. *Progress in Oceanography* 101:121-145.

Gagne R, Tremblay R, Olivier F, Pernet F, Miner P, Samain JF (2012) Effect of shear velocity and flow regimes on scallop post-larval detachment feed on two different diets. *Aquaculture* 370:172-178.

Genard B, Moraga D, Pernet F, David E, Boudry P, Tremblay R (2012) Expression of candidate genes related to metabolism, immunity and cellular stress during massive mortality in the American oyster *Crassostrea virginica* larvae in relation to biochemical and physiological parameters. *Gene* 499:70-75.

- Gervaise C, Simard Y, Roy N, Kinda B, Menard N (2012) Shipping noise in whale habitat : Characteristics, sources, budget, and impact on belugas in Saguenay-St. Lawrence Marine Park hub. *Journal of the Acoustical Society of America* 132:76-89.
- Gogorza CSG, Irurzun MA, Sinito AM, Lise-Pronovost A, St-Onge G, Haberzettl T, Ohlendorf C, Kastner S, Zolitschka B (2012) High-resolution paleomagnetic records from Laguna Potrok Aike (Patagonia, Argentina) for the last 16,000 years. *Geochemistry Geophysics Geosystems* 13:Q12Z37.
- Grant C, Archambault P, Olivier F, McKindsey CW (2012) Influence of 'bouchot' mussel culture on the benthic environment in a dynamic intertidal system. *Aquaculture Environment Interactions* 2:117-131.
- Guo L, Cai Y, Belzile C, Macdonald RW (2012) Sources and export fluxes of inorganic and organic carbon and nutrient species from the seasonally ice-covered Yukon River. *Biogeochemistry* 107:187-206.
- Hernando M, Ferreyra G, Malanga G (2012) Photochemical degradation of dissolved organic carbon : Hydrogen peroxide production and potential effects on plankton in the Beagle Channel (Tierra del Fuego). *Revista Chilena De Historia Natural* 85:481-494.
- Hernando MP, Carreto JI, Carignan M, Ferreyra GA (2012) Effect of vertical mixing on short-term mycosporine-like amino acid synthesis in the Antarctic diatom, *Thalassiosira* sp.. *Scientia Marina* 76:49-57.
- Kilada R, Sainte-Marie B, Rochette R, Davis N, Vanier C, Campana S (2012) Direct determination of age in shrimps, crabs, and lobsters. *Canadian Journal of Fisheries And Aquatic Sciences* 69:1728-1733.
- Largaespada C, Guichard F, Archambault P (2012) Meta-ecosystem engineering : Nutrient fluxes reveal intraspecific and interspecific feedbacks in fragmented mussel beds. *Ecology* 93:324-333.
- LeBlanc A, Arnold AA, Genard B, Nadalini JB, Heine MOS, Marcotte I, Tremblay R, Sleno L (2012) Determination of isotopic labeling of proteins by precursor ion scanning liquid chromatography/tandem mass spectrometry of derivatized amino acids applied to nuclear magnetic resonance studies. *Rapid Communications in Mass Spectrometry* 26:1165-1174.
- Lefort S, Mucci A, Sundby B (2012) Sediment Response to 25 Years of Persistent Hypoxia. *Aquatic Geochemistry* 18:461-474.
- Legagneux P, Gauthier G, Berteaux D, Bety J, Cadieux MC, Bilodeau F, Bolduc E, McKinnon L, Tarroux A, Therrien JF, Morissette L, Krebs CJ (2012) Disentangling trophic relationships in a High Arctic tundra ecosystem through food web modeling. *Ecology* 93:1707-1716.
- Lionard M, Roy S, Tremblay-Letourneau M, Ferreyra GA (2012) Combined effects of increased UV-B and temperature on the pigment-determined marine phytoplankton community of the St. Lawrence Estuary. *Marine Ecology Progress Series* 445:219-234.
- Lizotte M, Levasseur M, Michaud S, Scarratt MG, Merzouk A, Gosselin M, Pommier J, Rivkin RB, Kiene RP (2012) Macroscale patterns of the biological cycling of dimethylsulfoniopropionate (DMSP) and dimethylsulfide (DMS) in the Northwest Atlantic. *Biogeochemistry* 110:183-200.
- McKenzie DJ, Hoglund E, Dupont-Prinet A, Larsen BK, Skov PV, Pedersen PB, Jokumsen A (2012) Effects of stocking density and sustained aerobic exercise on growth, energetics and welfare of rainbow trout. *Aquaculture* 338:216-222.
- McKindsey CW, Archambault P, Simard N (2012) Spatial variation of benthic infaunal communities in baie de Gaspe (eastern Canada) - Influence of mussel aquaculture. *Aquaculture* 356:48-54.

- Mejri S, Tremblay R, Lambert Y, Audet C (2012) Influence of different levels of dissolved oxygen on the success of Greenland halibut (*Reinhardtius hippoglossoides*) egg hatching and embryonic development. *Marine Biology* 159:1693-1701.
- Melling H, Francois R, Myers PG, Perrie W, Rochon A, Taylor RL (2012) The Arctic Ocean-a Canadian perspective from IPY. *Climatic Change* 115:89-113.
- Mertens KN, Bringue M, Van Nieuwenhove N, Takano Y, Pospelova V, Rochon A, De Vernal A, Radi T, Dale B, Patterson RT, Weckstrom K, Andren E, Louwye S, Matsuoka K (2012) Process length variation of the cyst of the dinoflagellate *Protoceratium reticulatum* in the North Pacific and Baltic-Skagerrak region : calibration as an annual density proxy and first evidence of pseudo-cryptic speciation. *Journal of Quaternary Science* 27:734-744.
- Montes-Hugo MA, Fiorani L, Marullo S, Roy S, Gagne JP, Borelli R, Demers S, Palucci A (2012) A Comparison between Local and Global Spaceborne Chlorophyll Indices in the St. Lawrence Estuary. *Remote Sensing* 4:3666-3688.
- Montes-Hugo MA, Mohammadpour G (2012) Biogeo-optical modeling of SPM in the St. Lawrence Estuary. *Canadian Journal of Remote Sensing* 38:197-209.
- Montes-Hugo MA, Yuan X (2012) Climate patterns and phytoplankton dynamics in Antarctic latent heat polynyas. *Journal of Geophysical Research-Oceans* 117:C05031.
- Moreau S, Schloss IR, Mostajir B, Demers S, Almandoz GO, Ferrario ME, Ferreyra GA (2012) Influence of microbial community composition and metabolism on air-sea Delta pCO<sub>2</sub> variation off the western Antarctic Peninsula. *Marine Ecology Progress Series* 446:45-59.
- Morissette L, Christensen V, Pauly D (2012) Marine Mammal Impacts in Exploited Ecosystems : Would Large Scale Culling Benefit Fisheries ?. *Plos One* 7:e43966.
- Motard-Cote J, Levasseur M, Scarratt MG, Michaud S, Gratton Y, Rivkin RB, Keats K, Gosselin M, Tremblay JE, Kiene RP, Lovejoy C (2012) Distribution and metabolism of dimethylsulfoniopropionate (DMSP) and phylogenetic affiliation of DMSP-assimilating bacteria in northern Baffin Bay/Lancaster Sound. *Journal of Geophysical Research-Oceans* 117:C00G11.
- Myrand B, Chevarie L, Tremblay R (2012) Benthic Spat Collection of Softshell Clams (*Mya Arenaria* Linnaeus, 1758) Using Mats. *Journal of Shellfish Research* 31:39-48.
- Olivier F, Grant C, San Martin G, Archambault P, McKindsey CW (2012) Syllidae (Annelida : Polychaeta : Phyllodocida) from the Chausey Archipelago (English Channel, France), with a description of two new species of the Exogoninae *Prosphaerosyllis*. *Marine Biodiversity* 42:55-63.
- Ortiz JD, Nof D, Polyak L, St-Onge G, Lise-Pronovost A, Naidu S, Darby D, Brachfeld S (2012) The Late Quaternary Flow through the Bering Strait Has Been Forced by the Southern Ocean Winds. *Journal of Physical Oceanography* 42:2014-2029.
- Perrin G, Dibacco C, Plourde S, Winkler G (2012) Assessing stable isotope dynamics of diapausing *Calanus finmarchicus* and *C. hyperboreus* during the overwintering period : a laboratory experiment. *Journal of Plankton Research* 34:685-699.
- Pomerleau C, Lesage V, Ferguson SH, Winkler G, Petersen SD, Higdon JW (2012) Prey assemblage isotopic variability as a tool for assessing diet and the spatial distribution of bowhead whale *Balaena mysticetus* foraging in the Canadian eastern Arctic. *Marine Ecology Progress Series* 469:161-174.

- Randall K, Scarratt M, Levasseur M, Michaud S, Xie H, Gosselin M (2012) First measurements of nitrous oxide in Arctic sea ice. *Journal of Geophysical Research-Oceans* 117:C00G15.
- Richerol T, Pienitz R, Rochon A (2012) Modern dinoflagellate cyst assemblages in surface sediments of Nunatsiavut fjords (Labrador, Canada). *Marine Micropaleontology* 88-89:54-64.
- Rontani JF, Charriere B, Petit M, Vaultier F, Heipieper HJ, Link H, Chaillou G, Sempere R (2012) Degradation state of organic matter in surface sediments from the Southern Beaufort Sea : a lipid approach. *Biogeosciences* 9:3513-3530.
- Roy S, Parenteau M, Casas-Monroy O, Rochon A (2012) Coastal ship traffic : a significant introduction vector for potentially harmful dinoflagellates in eastern Canada. *Canadian Journal of Fisheries And Aquatic Sciences* 69:627-644.
- Sauvage C, Vagner M, Derome N, Audet C, Bernatchez L (2012) Coding Gene SNP Mapping Reveals QTL Linked to Growth and Stress Response in Brook Charr (*Salvelinus fontinalis*). *G3-Genes Genomes Genetics* 2:707-720.
- Sauvage C, Vagner M, Derome N, Audet C, Bernatchez L (2012) Coding Gene Single Nucleotide Polymorphism Mapping and Quantitative Trait Loci Detection for Physiological Reproductive Traits in Brook Charr, *Salvelinus fontinalis*. *G3-Genes Genomes Genetics* 2:379-392.
- Schloss IR, Abele D, Moreau S, Demers S, Bers AV, Gonzalez O, Ferreyra GA (2012) Response of phytoplankton dynamics to 19-year (1991-2009) climate trends in Potter Cove (Antarctica). *Journal of Marine Systems* 92:53-66.
- Simon E, Samuelsen A, Bertino L, Dumont D (2012) Estimation of positive sum-to-one constrained zooplankton grazing preferences with the DE<sub>EnKF</sub> : a twin experiment. *Ocean Science* 8:587-602.
- Simon Q, St-Onge G, Hillaire-Marcel C (2012) Late Quaternary chronostratigraphic framework of deep Baffin Bay glaciomarine sediments from high-resolution paleomagnetic data. *Geochemistry Geophysics Geosystems* 13:Q0A003.
- Snelgrove PVR, Archambault P, Juniper SK, Lawton P, Metaxas A, Pepin P, Rice JC, Tunnicliffe V (2012) Canadian Healthy Oceans Network (CHONe) : An Academic-Government Partnership to Develop Scientific Guidelines for Conservation and Sustainable Usage of Marine Biodiversity. *Fisheries* 37:296-304.
- St-Onge G, Chapron E, Mulsow S, Salas M, Viel M, Debret M, Foucher A, Mulder T, Winiarski T, Desmet M, Costa PJM, Ghaleb B, Jaouen A, Locat J (2012) Comparison of earthquake-triggered turbidites from the Saguenay (Eastern Canada) and Reloncavi (Chilean margin) Fjords : Implications for paleoseismicity and sedimentology. *Sedimentary Geology* 243:89-107.
- Tamdrari H, Brethes JC, Castonguay M, Duplisea DE (2012) Homing and group cohesion in Atlantic cod *Gadus morhua* revealed by tagging experiments. *Journal of Fish Biology* 81:714-727.
- Tamdrari H, Castonguay M, Brethes JC, Galbraith PS, Duplisea DE (2012) The dispersal pattern and behaviour of Atlantic cod (*Gadus morhua*) in the northern Gulf of St. Lawrence : results from tagging experiments. *Canadian Journal of Fisheries And Aquatic Sciences* 69:112-121.
- Toupoint N, Gilmore-Solomon L, Bourque F, Myrand B, Pernet F, Olivier F, Tremblay R (2012) Match/mismatch between the *Mytilus edulis* larval supply and seston quality : effect on recruitment. *Ecology* 93:1922-1934.
- Toupoint N, Mohit V, Linossier I, Bourgougnon N, Myrand B, Olivier F, Lovejoy C, Tremblay R (2012) Effect of biofilm age on settlement of *Mytilus edulis*. *Biofouling* 28:985-1001.

Tremblay I, Guderley HE, Himmelman JH (2012) Swimming away or clamming up : the use of phasic and tonic adductor muscles during escape responses varies with shell morphology in scallops. *Journal of Experimental Biology* 215:4131-4143.

Vergilino R, Dionne K, Nozais C, Dufresne F, Belzile C (2012) Genome size differences in *Hyaella* cryptic species. *Genome* 55:134-139.

Wu H, Roy S, Alami M, Green BR, Campbell DA (2012) Photosystem II Photoinactivation, Repair, and Protection in Marine Centric Diatoms. *Plant Physiology* 160:464-476.

Xie H, Aubry C, Belanger S, Song G (2012) The dynamics of absorption coefficients of CDOM and particles in the St. Lawrence estuarine system : Biogeochemical and physical implications. *Marine Chemistry* 128:44-56.

Xie H, Belanger S, Song G, Benner R, Taalba A, Blais M, Tremblay JE, Babin M (2012) Photoproduction of ammonium in the southeastern Beaufort Sea and its biogeochemical implications. *Biogeosciences* 9:3047-3061.

Zhang Y, Xie H (2012) The sources and sinks of carbon monoxide in the St. Lawrence estuarine system. *Deep-Sea Research Part II-Topical Studies in Oceanography* 81-84:114-123.

Zuykov M, Pelletier E, Anderson J, Cotterell TF, Belzile C, Demers S (2012) In vitro growth of calcium carbonate crystals on bivalve shells : Application of two methods of synthesis. *Materials Science & Engineering C-Materials for Biological Applications* 32:1158-1163.

Zuykov M, Pelletier E, Saint-Louis R, Checa A, Demers S (2012) Biosorption of thorium on the external shell surface of bivalve mollusks : The role of shell surface microtopography. *Chemosphere* 86:680-683.

Zuykov M, Vinarski M, Pelletier E, Demers S, Harper DAT (2012) Shell malformations in seven species of pond snail (Gastropoda, Lymnaeidae) : analysis of large museum collections. *Zoosystematics And Evolution* 88:365-368.