## Diane M O'brien

List of Publications by Year in descending order

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| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Renewable and nonrenewable resources: Amino acid turnover and allocation to reproduction in<br>Lepidoptera. Proceedings of the National Academy of Sciences of the United States of America, 2002,<br>99, 4413-4418.    | 7.1  | 258       |
| 2  | Tracing Carbon Sources through Aquatic and Terrestrial Food Webs Using Amino Acid Stable Isotope<br>Fingerprinting. PLoS ONE, 2013, 8, e73441.  | 2.5  | 203       |
| 3  | Stable isotope fingerprinting: a novel method for identifying plant, fungal, or bacterial origins of amino acids. Ecology, 2009, 90, 3526-3535.   | 3.2  | 188       |
| 4  | Stable Isotope Ratios as Biomarkers of Diet for Health Research. Annual Review of Nutrition, 2015, 35, 565-594.   | 10.1 | 131       |
| 5  | Making eggs from nectar: the role of life history and dietary carbon turnover in butterfly reproductive resource allocation. Oikos, 2004, 105, 279-291.   | 2.7  | 127       |
| 6  | ALLOCATION TO REPRODUCTION IN A HAWKMOTH: A QUANTITATIVE ANALYSIS USING STABLE CARBON ISOTOPES. Ecology, 2000, 81, 2822-2831.   | 3.2  | 113       |
| 7  | Energy metabolism in orchid bee flight muscles: carbohydrate fuels all. Journal of Experimental<br>Biology, 2005, 208, 3573-3579.   | 1.7  | 112       |
| 8  | Tracking human travel using stable oxygen and hydrogen isotope analyses of hair and urine. Rapid<br>Communications in Mass Spectrometry, 2007, 21, 2422-2430.   | 1.5  | 112       |
| 9  | Pollen feeding in the butterfly Heliconius charitonia : isotopic evidence for essential amino acid transfer from pollen to eggs. Proceedings of the Royal Society B: Biological Sciences, 2003, 270, 2631-2636.         | 2.6  | 108       |
| 10 | Disentangling effects of growth and nutritional status on seabird stable isotope ratios. Oecologia, 2009, 159, 41-48.   | 2.0  | 101       |
| 11 | An Examination of the Carbon Isotope Effects Associated with Amino Acid Biosynthesis. Astrobiology, 2006, 6, 867-880.   | 3.0  | 87        |
| 12 | The Amino Acids Used in Reproduction by Butterflies: A Comparative Study of Dietary Sources Using<br>Compoundâ€ <del>S</del> pecific Stable Isotope Analysis. Physiological and Biochemical Zoology, 2005, 78, 819-827. | 1.5  | 81        |
| 13 | Perspective: Dietary Biomarkers of Intake and Exposure—Exploration with Omics Approaches. Advances in Nutrition, 2020, 11, 200-215.   | 6.4  | 79        |
| 14 | The influence of diet and water on the stable oxygen and hydrogen isotope composition of Chironomidae (Diptera) with paleoecological implications. Oecologia, 2009, 160, 225-233.                                       | 2.0  | 74        |
| 15 | Use of stable isotopes to examine how dietary restriction extends Drosophila lifespan. Current<br>Biology, 2008, 18, R155-R156.   | 3.9  | 73        |
| 16 | Using stable isotopes to assess carbon and nitrogen turnover in the Arctic sympagic amphipod<br>Onisimus litoralis. Oecologia, 2008, 158, 11-22.  | 2.0  | 63        |
| 17 | Stable Nitrogen and Carbon Isotope Ratios Indicate Traditional and Market Food Intake in an Indigenous Circumpolar Population. Journal of Nutrition, 2012, 142, 84-90.  | 2.9  | 63        |
| 18 | Red blood cell δ15N: a novel biomarker of dietary eicosapentaenoic acid and docosahexaenoic acid intake. American Journal of Clinical Nutrition, 2009, 89, 913-919.   | 4.7  | 61        |

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| 19 | Associations of obesity with triglycerides and C-reactive protein are attenuated in adults with high red blood cell eicosapentaenoic and docosahexaenoic acids. European Journal of Clinical Nutrition, 2011, 65, 808-817.  | 2.9 | 59        |
| 20 | DNA Methylation Patterns Are Associated with n–3 Fatty Acid Intake in Yup'ik People. Journal of Nutrition, 2014, 144, 425-430.  | 2.9 | 59        |
| 21 | Genetic polymorphisms in carnitine palmitoyltransferase 1A gene are associated with variation in body composition and fasting lipid traits in Yup'ik Eskimos. Journal of Lipid Research, 2012, 53, 175-184.   | 4.2 | 58        |
| 22 | Resource allocation to reproduction and soma in Drosophila: A stable isotope analysis of carbon from dietary sugar. Journal of Insect Physiology, 2006, 52, 763-770.  | 2.0 | 48        |
| 23 | A test of alternate models for increased tissue nitrogen isotope ratios during fasting in hibernating arctic ground squirrels. Journal of Experimental Biology, 2012, 215, 3354-61.   | 1.7 | 46        |
| 24 | The Carbon Isotope Ratio of Alanine in Red Blood Cells Is a New Candidate Biomarker of Sugar-Sweetened Beverage Intake. Journal of Nutrition, 2013, 143, 878-884.   | 2.9 | 46        |
| 25 | Carbon and Nitrogen Stable Isotope Ratios Predict Intake of Sweeteners in a Yup'ik Study Population.<br>Journal of Nutrition, 2013, 143, 161-165.   | 2.9 | 45        |
| 26 | Relation between stable isotope ratios in human red blood cells and hair: implications for using the nitrogen isotope ratio of hair as a biomarker of eicosapentaenoic acid and docosahexaenoic acid.<br>American Journal of Clinical Nutrition, 2009, 90, 1642-1647. | 4.7 | 42        |
| 27 | The dominant detritusâ€feeding invertebrate in Arctic peat soils derives its essential amino acids from gut symbionts. Journal of Animal Ecology, 2016, 85, 1275-1285.  | 2.8 | 40        |
| 28 | Can amino acid carbon isotope ratios distinguish primary producers in a mangrove ecosystem?. Rapid<br>Communications in Mass Spectrometry, 2012, 26, 1541-1548.   | 1.5 | 38        |
| 29 | Effects of Lipid Extraction on Stable Isotope Ratios in Avian Egg Yolk: Is Arithmetic Correction a<br>Reliable Alternative?. Auk, 2010, 127, 72-78.   | 1.4 | 36        |
| 30 | Age-related variation in red blood cell stable isotope ratios (delta13C and delta15N) from two Yupik<br>villages in southwest Alaska: a pilot study. International Journal of Circumpolar Health, 2007, 66,<br>31-41.   | 1.2 | 31        |
| 31 | Association between added sugar intake and dental caries in Yup'ik children using a novel hair<br>biomarker. BMC Oral Health, 2015, 15, 121.  | 2.3 | 31        |
| 32 | Stable Isotope Models of Sugar Intake Using Hair, Red Blood Cells, and Plasma, but Not Fasting Plasma<br>Glucose, Predict Sugar Intake in a Yup'ik Study Population. Journal of Nutrition, 2014, 144, 75-80.  | 2.9 | 30        |
| 33 | Declines in traditional marine food intake and vitamin D levels from the 1960s to present in young<br>Alaska Native women. Public Health Nutrition, 2017, 20, 1738-1745.  | 2.2 | 29        |
| 34 | Anthropogenic food use and diet overlap between red foxes ( <i>Vulpes vulpes</i> ) and arctic<br>foxes ( <i>Vulpes lagopus</i> ) in Prudhoe Bay, Alaska. Canadian Journal of Zoology, 2014, 92,<br>657-663.   | 1.0 | 28        |
| 35 | King eiders use an income strategy for egg production: a case study for incorporating individual dietary variation into nutrient allocation research. Oecologia, 2010, 164, 1-12.   | 2.0 | 27        |
| 36 | Contrasting effects of nitrogen limitation and amino acid imbalance on carbon and nitrogen turnover in three species of Collembola. Soil Biology and Biochemistry, 2011, 43, 749-759.   | 8.8 | 27        |

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|----|---|-------------------------|---------------------------|
| 37 | Genetics, Diet, and Season Are Associated with Serum 25-Hydroxycholecalciferol Concentration in a<br>Yup'ik Study Population from Southwestern Alaska. Journal of Nutrition, 2016, 146, 318-325.  | 2.9                     | 25                        |
| 38 | Serum Nitrogen and Carbon Stable Isotope Ratios Meet Biomarker Criteria for Fish and Animal Protein<br>Intake in a Controlled Feeding Study of a Women's Health Initiative Cohort. Journal of Nutrition, 2018,<br>148, 1931-1937.   | 2.9                     | 25                        |
| 39 | Associations of plasma, RBCs, and hair carbon and nitrogen isotope ratios with fish, meat, and sugar-sweetened beverage intake in a 12-wk inpatient feeding study. American Journal of Clinical Nutrition, 2019, 110, 1306-1315.  | 4.7                     | 25                        |
| 40 | A Stable Isotope Biomarker of Marine Food Intake Captures Associations between n–3 Fatty Acid Intake<br>and Chronic Disease Risk in a Yup'ik Study Population, and Detects New Associations with Blood<br>Pressure and Adiponectin. Journal of Nutrition, 2014, 144, 706-713. | 2.9                     | 24                        |
| 41 | Stable isotopes identify dietary changes associated with beak deformities in Black-capped Chickadees<br>( <i>Poecile atricapillus</i> ). Auk, 2012, 129, 460-466.   | 1.4                     | 19                        |
| 42 | Obesity polymorphisms identified in genome-wide association studies interact with n-3<br>polyunsaturated fatty acid intake and modify the genetic association with adiposity phenotypes in<br>Yup'ik people. Genes and Nutrition, 2013, 8, 495-505.                           | 2.5                     | 19                        |
| 43 | Linkage and association analysis of obesity traits reveals novel loci and interactions with dietary n-3<br>fatty acids in an Alaska Native (Yup'ik) population. Metabolism: Clinical and Experimental, 2015, 64,<br>689-697.  | 3.4                     | 19                        |
| 44 | Strengthening adolescents' connection to their traditional food system improves diet quality in<br>remote Alaska Native communities: results from the Neqa Elicarvigmun Pilot Study. Translational<br>Behavioral Medicine, 2019, 9, 952-961.                                  | 2.4                     | 17                        |
| 45 | <i><scp>CDKAL1</scp></i> and <i><scp>HHEX</scp></i> are associated with type 2 diabetesâ€related<br>traits among <scp>Y</scp> up'ik people (在å°छूँ®å،ä≌ç¾ॺू <i>CDKAL1</i> å'Œ <i>HHEX</i> 与2型糗尿ç·<br>251-259.   | –ç>jå8. <sup>3</sup> ç% | ₀¹å¥¢œœ% <mark>₀</mark> å |
| 46 | Characterising the reproducibility and reliability of dietary patterns among Yup'ik Alaska Native people. British Journal of Nutrition, 2015, 113, 634-643.   | 2.3                     | 16                        |
| 47 | Isotopic estimates of sugar intake are related to chronic disease risk factors but not obesity in an<br>Alaska native (Yup'ik) study population. European Journal of Clinical Nutrition, 2014, 68, 91-96.   | 2.9                     | 15                        |
| 48 | Using exploratory factor analysis of FFQ data to identify dietary patterns among Yup'ik people. Public<br>Health Nutrition, 2014, 17, 510-518.  | 2.2                     | 15                        |
| 49 | Feeding ecologies of key bivalve and polychaete species in the Bering Sea as elucidated by fatty acid and compound-specific stable isotope analyses. Marine Ecology - Progress Series, 2016, 557, 161-175.  | 1.9                     | 15                        |
| 50 | Sources of primary production to Arctic bivalves identified using amino acid stable carbon isotope fingerprinting. Isotopes in Environmental and Health Studies, 2019, 55, 366-384.   | 1.0                     | 13                        |
| 51 | The Carbon Isotope Ratios of Serum Amino Acids in Combination with Participant Characteristics can<br>be Used to Estimate Added Sugar Intake in a Controlled Feeding Study of US Postmenopausal Women.<br>Journal of Nutrition, 2020, 150, 2764-2771.                         | 2.9                     | 13                        |
| 52 | Investigating the performance of 24-h urinary sucrose and fructose as a biomarker of total sugars<br>intake in US participants – a controlled feeding study. American Journal of Clinical Nutrition, 2021,<br>114, 721-730.   | 4.7                     | 11                        |
| 53 | Biomarker-Calibrated Red and Combined Red and Processed Meat Intakes with Chronic Disease Risk in a Cohort of Postmenopausal Women. Journal of Nutrition, 2022, 152, 1711-1720.   | 2.9                     | 11                        |
| 54 | Evidence for novel genetic loci associated with metabolic traits in Yup'ik people. American Journal of<br>Human Biology, 2013, 25, 673-680.   | 1.6                     | 10                        |

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|----|--|-----|-----------|
| 55 | Resource partitioning between Pacific walruses and bearded seals in the Alaska Arctic and sub-Arctic.<br>Oecologia, 2017, 184, 385-398.  | 2.0 | 9         |
| 56 | The carbon isotope ratios of nonessential amino acids identify sugar-sweetened beverage (SSB)<br>consumers in a 12-wk inpatient feeding study of 32 men with varying SSB and meat exposures. American<br>Journal of Clinical Nutrition, 2021, 113, 1256-1264.              | 4.7 | 9         |
| 57 | Does feeding type matter? Contribution of organic matter sources to benthic invertebrates on the<br>Arctic Chukchi Sea shelf. Food Webs, 2021, 29, e00205.   | 1.2 | 9         |
| 58 | Sex, Adiposity, and Hypertension Status Modify the Inverse Effect of Marine Food Intake on Blood<br>Pressure in Alaska Native (Yup'ik) People. Journal of Nutrition, 2015, 145, 931-938.   | 2.9 | 8         |
| 59 | The Nitrogen Isotope Ratio Is a Biomarker of Yup'ik Traditional Food Intake and Reflects Dietary<br>Seasonality in Segmental Hair Analyses. Journal of Nutrition, 2019, 149, 1960-1966.  | 2.9 | 8         |
| 60 | Characterizing Vegetable and Fruit Intake in a Remote Alaska Native Community Using Reflection<br>Spectroscopy and 24-Hour Recalls. Journal of Nutrition Education and Behavior, 2021, 53, 712-718.  | 0.7 | 8         |
| 61 | Estimating lean mass over a wide range of body composition: a calibration of deuterium dilution in the arctic ground squirrel. Rapid Communications in Mass Spectrometry, 2011, 25, 3491-3496.   | 1.5 | 6         |
| 62 | The Breath Carbon Isotope Ratio Reflects Short-term Added-Sugar Intake in a Dose-Response,<br>Crossover Feeding Study of 12 Healthy Adults. Journal of Nutrition, 2021, 151, 628-635.  | 2.9 | 6         |
| 63 | An evaluation of the serum carbon isotope ratio as a candidate predictive biomarker of the dietary animal protein ratio (animal protein/total protein) in a 15-day controlled feeding study of US adults.<br>American Journal of Clinical Nutrition, 2022, 115, 1134-1143. | 4.7 | 6         |
| 64 | Habitual Intake of Marine-Derived n-3 PUFAs is Inversely Associated with a Cardiometabolic<br>Inflammatory Profile in Yup'ik Alaska Native People. Journal of Nutrition, 2022, 152, 844-855.   | 2.9 | 6         |
| 65 | Resource allocation to testes in walnut flies and implications for reproductive strategy. Journal of Insect Physiology, 2010, 56, 1523-1529.   | 2.0 | 5         |
| 66 | Bi-cultural dynamics for risk and protective factors for cardiometabolic health in an Alaska Native<br>(Yup'ik) population. PLoS ONE, 2017, 12, e0183451.  | 2.5 | 5         |
| 67 | Morphological characteristics of harbor seal ( <i>Phoca vitulina</i> ) whiskers and their use in dietary reconstruction using stable isotope ratios. Canadian Journal of Zoology, 2018, 96, 1255-1263.   | 1.0 | 5         |
| 68 | Dried Blood Spot Sampling of Landlocked Arctic Char ( <i>Salvelinus alpinus</i> ) for Estimating<br>Mercury Exposure and Stable Carbon Isotope Fingerprinting of Essential Amino Acids. Environmental<br>Toxicology and Chemistry, 2020, 39, 893-903.                      | 4.3 | 5         |
| 69 | Dietary and genetic influences on hemostasis in a Yup'ik Alaska Native population. PLoS ONE, 2017, 12,<br>e0173616.  | 2.5 | 5         |
| 70 | Allocation to Reproduction in a Hawkmoth: A Quantitative Analysis Using Stable Carbon Isotopes.<br>Ecology, 2000, 81, 2822.  | 3.2 | 5         |
| 71 | Linkage and association analysis of circulating vitamin D and parathyroid hormone identifies novel<br>loci in Alaska Native Yup'ik people. Genes and Nutrition, 2016, 11, 23.  | 2.5 | 4         |
| 72 | Stable isotope analysis of CO2 in breath indicates metabolic fuel shifts in torpid arctic ground<br>squirrels. Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology,<br>2017, 209, 10-15.  | 1.8 | 4         |

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|----|--|-----|-----------|
| 73 | Polymorphisms in stearoyl coa desaturase and sterol regulatory element binding protein interact<br>with N-3 polyunsaturated fatty acid intake to modify associations with anthropometric variables and<br>metabolic phenotypes in Yup'ik people. Molecular Nutrition and Food Research, 2016, 60, 2642-2653. | 3.3 | 3         |
| 74 | Validation of dried blood spot sampling for determining trophic positions of Arctic char using<br>nitrogen stable isotope analyses of amino acids. Rapid Communications in Mass Spectrometry, 2021, 35,<br>e8992.  | 1.5 | 3         |
| 75 | Amino Acid Nitrogen Isotope Ratios Respond to Fish and Meat Intake in a 12-Week Inpatient Feeding<br>Study of Adult Men. Journal of Nutrition, 2022, , .   | 2.9 | 2         |
| 76 | Seasonal variation in added sugar or sugar sweetened beverage intake in Alaska native communities: an exploratory study. International Journal of Circumpolar Health, 2021, 80, 1920779.   | 1.2 | 1         |
| 77 | Reply to Mantha OL et al American Journal of Clinical Nutrition, 2020, 111, 1110-1111.   | 4.7 | 0         |
| 78 | Metabolic Characterization of Meat, Fish, and Soda Intake in Males: Secondary Results from a<br>Randomized Inpatient Pilot Study. Obesity, 2021, 29, 995-1002.   | 3.0 | 0         |
| 79 | Seasonal and annual variation in intake of traditional marine foods by a Yup'ik Eskimo population: a sequential dietary record from hair stable isotope analysis. FASEB Journal, 2012, 26, lb347.  | 0.5 | 0         |
| 80 | Associations between stable isotope ratios and animalâ€derived dietary protein intake in Yup'ik eskimos.<br>FASEB Journal, 2012, 26, lb342.  | 0.5 | 0         |
| 81 | Validation of Stable Isotope Ratios as Biomarkers of Meat, Fish, and Soda Intake. FASEB Journal, 2015, 29, 131.4.  | 0.5 | 0         |