

Diane M O'brien

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

3,184
citations

147566

31
h-index

155451

55
g-index

81
all docs

81
docs citations

81
times ranked

3404
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Renewable and nonrenewable resources: Amino acid turnover and allocation to reproduction in Lepidoptera. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 4413-4418. | 3.3 | 258 |
| 2 | Tracing Carbon Sources through Aquatic and Terrestrial Food Webs Using Amino Acid Stable Isotope Fingerprinting. <i>PLoS ONE</i> , 2013, 8, e73441. | 1.1 | 203 |
| 3 | Stable isotope fingerprinting: a novel method for identifying plant, fungal, or bacterial origins of amino acids. <i>Ecology</i> , 2009, 90, 3526-3535. | 1.5 | 188 |
| 4 | Stable Isotope Ratios as Biomarkers of Diet for Health Research. <i>Annual Review of Nutrition</i> , 2015, 35, 565-594. | 4.3 | 131 |
| 5 | Making eggs from nectar: the role of life history and dietary carbon turnover in butterfly reproductive resource allocation. <i>Oikos</i> , 2004, 105, 279-291. | 1.2 | 127 |
| 6 | ALLOCATION TO REPRODUCTION IN A HAWKMOTH: A QUANTITATIVE ANALYSIS USING STABLE CARBON ISOTOPES. <i>Ecology</i> , 2000, 81, 2822-2831. | 1.5 | 113 |
| 7 | Energy metabolism in orchid bee flight muscles: carbohydrate fuels all. <i>Journal of Experimental Biology</i> , 2005, 208, 3573-3579. | 0.8 | 112 |
| 8 | Tracking human travel using stable oxygen and hydrogen isotope analyses of hair and urine. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 2422-2430. | 0.7 | 112 |
| 9 | Pollen feeding in the butterfly <i>Heliconius charitonia</i> : isotopic evidence for essential amino acid transfer from pollen to eggs. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003, 270, 2631-2636. | 1.2 | 108 |
| 10 | Disentangling effects of growth and nutritional status on seabird stable isotope ratios. <i>Oecologia</i> , 2009, 159, 41-48. | 0.9 | 101 |
| 11 | An Examination of the Carbon Isotope Effects Associated with Amino Acid Biosynthesis. <i>Astrobiology</i> , 2006, 6, 867-880. | 1.5 | 87 |
| 12 | The Amino Acids Used in Reproduction by Butterflies: A Comparative Study of Dietary Sources Using Compound-Specific Stable Isotope Analysis. <i>Physiological and Biochemical Zoology</i> , 2005, 78, 819-827. | 0.6 | 81 |
| 13 | Perspective: Dietary Biomarkers of Intake and Exposure—Exploration with Omics Approaches. <i>Advances in Nutrition</i> , 2020, 11, 200-215. | 2.9 | 79 |
| 14 | The influence of diet and water on the stable oxygen and hydrogen isotope composition of Chironomidae (Diptera) with paleoecological implications. <i>Oecologia</i> , 2009, 160, 225-233. | 0.9 | 74 |
| 15 | Use of stable isotopes to examine how dietary restriction extends <i>Drosophila</i> lifespan. <i>Current Biology</i> , 2008, 18, R155-R156. | 1.8 | 73 |
| 16 | Using stable isotopes to assess carbon and nitrogen turnover in the Arctic sympagic amphipod <i>Onisimus litoralis</i> . <i>Oecologia</i> , 2008, 158, 11-22. | 0.9 | 63 |
| 17 | Stable Nitrogen and Carbon Isotope Ratios Indicate Traditional and Market Food Intake in an Indigenous Circumpolar Population. <i>Journal of Nutrition</i> , 2012, 142, 84-90. | 1.3 | 63 |
| 18 | Red blood cell $\delta^{15}N$: a novel biomarker of dietary eicosapentaenoic acid and docosahexaenoic acid intake. <i>American Journal of Clinical Nutrition</i> , 2009, 89, 913-919. | 2.2 | 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. <i>European Journal of Clinical Nutrition</i> , 2011, 65, 808-817. | 1.3 | 59 |
| 20 | DNA Methylation Patterns Are Associated with \approx 3 Fatty Acid Intake in Yup'ik People. <i>Journal of Nutrition</i> , 2014, 144, 425-430. | 1.3 | 59 |
| 21 | Genetic polymorphisms in carnitine palmitoyltransferase 1A gene are associated with variation in body composition and fasting lipid traits in Yup'ik Eskimos. <i>Journal of Lipid Research</i> , 2012, 53, 175-184. | 2.0 | 58 |
| 22 | Resource allocation to reproduction and soma in <i>Drosophila</i> : A stable isotope analysis of carbon from dietary sugar. <i>Journal of Insect Physiology</i> , 2006, 52, 763-770. | 0.9 | 48 |
| 23 | A test of alternate models for increased tissue nitrogen isotope ratios during fasting in hibernating arctic ground squirrels. <i>Journal of Experimental Biology</i> , 2012, 215, 3354-61. | 0.8 | 46 |
| 24 | The Carbon Isotope Ratio of Alanine in Red Blood Cells Is a New Candidate Biomarker of Sugar-Sweetened Beverage Intake. <i>Journal of Nutrition</i> , 2013, 143, 878-884. | 1.3 | 46 |
| 25 | Carbon and Nitrogen Stable Isotope Ratios Predict Intake of Sweeteners in a Yup'ik Study Population. <i>Journal of Nutrition</i> , 2013, 143, 161-165. | 1.3 | 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. <i>American Journal of Clinical Nutrition</i> , 2009, 90, 1642-1647. | 2.2 | 42 |
| 27 | The dominant detritus-feeding invertebrate in Arctic peat soils derives its essential amino acids from gut symbionts. <i>Journal of Animal Ecology</i> , 2016, 85, 1275-1285. | 1.3 | 40 |
| 28 | Can amino acid carbon isotope ratios distinguish primary producers in a mangrove ecosystem?. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 1541-1548. | 0.7 | 38 |
| 29 | Effects of Lipid Extraction on Stable Isotope Ratios in Avian Egg Yolk: Is Arithmetic Correction a Reliable Alternative?. <i>Auk</i> , 2010, 127, 72-78. | 0.7 | 36 |
| 30 | Age-related variation in red blood cell stable isotope ratios ($\delta^{13}\text{C}$ and $\delta^{15}\text{N}$) from two Yupik villages in southwest Alaska: a pilot study. <i>International Journal of Circumpolar Health</i> , 2007, 66, 31-41. | 0.5 | 31 |
| 31 | Association between added sugar intake and dental caries in Yup'ik children using a novel hair biomarker. <i>BMC Oral Health</i> , 2015, 15, 121. | 0.8 | 31 |
| 32 | Stable Isotope Models of Sugar Intake Using Hair, Red Blood Cells, and Plasma, but Not Fasting Plasma Glucose, Predict Sugar Intake in a Yup'ik Study Population. <i>Journal of Nutrition</i> , 2014, 144, 75-80. | 1.3 | 30 |
| 33 | Declines in traditional marine food intake and vitamin D levels from the 1960s to present in young Alaska Native women. <i>Public Health Nutrition</i> , 2017, 20, 1738-1745. | 1.1 | 29 |
| 34 | Anthropogenic food use and diet overlap between red foxes (<i>Vulpes vulpes</i>) and arctic foxes (<i>Vulpes lagopus</i>) in Prudhoe Bay, Alaska. <i>Canadian Journal of Zoology</i> , 2014, 92, 657-663. | 0.4 | 28 |
| 35 | King eiders use an income strategy for egg production: a case study for incorporating individual dietary variation into nutrient allocation research. <i>Oecologia</i> , 2010, 164, 1-12. | 0.9 | 27 |
| 36 | Contrasting effects of nitrogen limitation and amino acid imbalance on carbon and nitrogen turnover in three species of Collembola. <i>Soil Biology and Biochemistry</i> , 2011, 43, 749-759. | 4.2 | 27 |

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|----|---|-----|-----------|
| 37 | Genetics, Diet, and Season Are Associated with Serum 25-Hydroxycholecalciferol Concentration in a Yup'ik Study Population from Southwestern Alaska. <i>Journal of Nutrition</i> , 2016, 146, 318-325. | 1.3 | 25 |
| 38 | Serum Nitrogen and Carbon Stable Isotope Ratios Meet Biomarker Criteria for Fish and Animal Protein Intake in a Controlled Feeding Study of a Women's Health Initiative Cohort. <i>Journal of Nutrition</i> , 2018, 148, 1931-1937. | 1.3 | 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. <i>American Journal of Clinical Nutrition</i> , 2019, 110, 1306-1315. | 2.2 | 25 |
| 40 | A Stable Isotope Biomarker of Marine Food Intake Captures Associations between n-3 Fatty Acid Intake and Chronic Disease Risk in a Yup'ik Study Population, and Detects New Associations with Blood Pressure and Adiponectin. <i>Journal of Nutrition</i> , 2014, 144, 706-713. | 1.3 | 24 |
| 41 | Stable isotopes identify dietary changes associated with beak deformities in Black-capped Chickadees (<i>Poecile atricapillus</i>). <i>Auk</i> , 2012, 129, 460-466. | 0.7 | 19 |
| 42 | Obesity polymorphisms identified in genome-wide association studies interact with n-3 polyunsaturated fatty acid intake and modify the genetic association with adiposity phenotypes in Yup'ik people. <i>Genes and Nutrition</i> , 2013, 8, 495-505. | 1.2 | 19 |
| 43 | Linkage and association analysis of obesity traits reveals novel loci and interactions with dietary n-3 fatty acids in an Alaska Native (Yup'ik) population. <i>Metabolism: Clinical and Experimental</i> , 2015, 64, 689-697. | 1.5 | 19 |
| 44 | Strengthening adolescents' connection to their traditional food system improves diet quality in remote Alaska Native communities: results from the Neqa Elicarvigmun Pilot Study. <i>Translational Behavioral Medicine</i> , 2019, 9, 952-961. | 1.2 | 17 |
| 45 | <i>CDKAL1</i> and <i>HHEX</i> are associated with type 2 diabetes-related traits among Yup'ik people. <i>Diabetes</i> , 2013, 62, 251-259. | 1.3 | 17 |
| 46 | Characterising the reproducibility and reliability of dietary patterns among Yup'ik Alaska Native people. <i>British Journal of Nutrition</i> , 2015, 113, 634-643. | 1.2 | 16 |
| 47 | Isotopic estimates of sugar intake are related to chronic disease risk factors but not obesity in an Alaska native (Yup'ik) study population. <i>European Journal of Clinical Nutrition</i> , 2014, 68, 91-96. | 1.3 | 15 |
| 48 | Using exploratory factor analysis of FFQ data to identify dietary patterns among Yup'ik people. <i>Public Health Nutrition</i> , 2014, 17, 510-518. | 1.1 | 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. <i>Marine Ecology - Progress Series</i> , 2016, 557, 161-175. | 0.9 | 15 |
| 50 | Sources of primary production to Arctic bivalves identified using amino acid stable carbon isotope fingerprinting. <i>Isotopes in Environmental and Health Studies</i> , 2019, 55, 366-384. | 0.5 | 13 |
| 51 | The Carbon Isotope Ratios of Serum Amino Acids in Combination with Participant Characteristics can be Used to Estimate Added Sugar Intake in a Controlled Feeding Study of US Postmenopausal Women. <i>Journal of Nutrition</i> , 2020, 150, 2764-2771. | 1.3 | 13 |
| 52 | Investigating the performance of 24-h urinary sucrose and fructose as a biomarker of total sugars intake in US participants – a controlled feeding study. <i>American Journal of Clinical Nutrition</i> , 2021, 114, 721-730. | 2.2 | 11 |
| 53 | Biomarker-Calibrated Red and Combined Red and Processed Meat Intakes with Chronic Disease Risk in a Cohort of Postmenopausal Women. <i>Journal of Nutrition</i> , 2022, 152, 1711-1720. | 1.3 | 11 |
| 54 | Evidence for novel genetic loci associated with metabolic traits in Yup'ik people. <i>American Journal of Human Biology</i> , 2013, 25, 673-680. | 0.8 | 10 |

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|----|---|-----|-----------|
| 55 | Resource partitioning between Pacific walruses and bearded seals in the Alaska Arctic and sub-Arctic. <i>Oecologia</i> , 2017, 184, 385-398. | 0.9 | 9 |
| 56 | The carbon isotope ratios of nonessential amino acids identify sugar-sweetened beverage (SSB) consumers in a 12-wk inpatient feeding study of 32 men with varying SSB and meat exposures. <i>American Journal of Clinical Nutrition</i> , 2021, 113, 1256-1264. | 2.2 | 9 |
| 57 | Does feeding type matter? Contribution of organic matter sources to benthic invertebrates on the Arctic Chukchi Sea shelf. <i>Food Webs</i> , 2021, 29, e00205. | 0.5 | 9 |
| 58 | Sex, Adiposity, and Hypertension Status Modify the Inverse Effect of Marine Food Intake on Blood Pressure in Alaska Native (Yup'ik) People. <i>Journal of Nutrition</i> , 2015, 145, 931-938. | 1.3 | 8 |
| 59 | The Nitrogen Isotope Ratio Is a Biomarker of Yup'ik Traditional Food Intake and Reflects Dietary Seasonality in Segmental Hair Analyses. <i>Journal of Nutrition</i> , 2019, 149, 1960-1966. | 1.3 | 8 |
| 60 | Characterizing Vegetable and Fruit Intake in a Remote Alaska Native Community Using Reflection Spectroscopy and 24-Hour Recalls. <i>Journal of Nutrition Education and Behavior</i> , 2021, 53, 712-718. | 0.3 | 8 |
| 61 | Estimating lean mass over a wide range of body composition: a calibration of deuterium dilution in the arctic ground squirrel. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 3491-3496. | 0.7 | 6 |
| 62 | The Breath Carbon Isotope Ratio Reflects Short-term Added-Sugar Intake in a Dose-Response, Crossover Feeding Study of 12 Healthy Adults. <i>Journal of Nutrition</i> , 2021, 151, 628-635. | 1.3 | 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. <i>American Journal of Clinical Nutrition</i> , 2022, 115, 1134-1143. | 2.2 | 6 |
| 64 | Habitual Intake of Marine-Derived n-3 PUFAs is Inversely Associated with a Cardiometabolic Inflammatory Profile in Yup'ik Alaska Native People. <i>Journal of Nutrition</i> , 2022, 152, 844-855. | 1.3 | 6 |
| 65 | Resource allocation to testes in walnut flies and implications for reproductive strategy. <i>Journal of Insect Physiology</i> , 2010, 56, 1523-1529. | 0.9 | 5 |
| 66 | Bi-cultural dynamics for risk and protective factors for cardiometabolic health in an Alaska Native (Yup'ik) population. <i>PLoS ONE</i> , 2017, 12, e0183451. | 1.1 | 5 |
| 67 | Morphological characteristics of harbor seal (<i>Phoca vitulina</i>) whiskers and their use in dietary reconstruction using stable isotope ratios. <i>Canadian Journal of Zoology</i> , 2018, 96, 1255-1263. | 0.4 | 5 |
| 68 | Dried Blood Spot Sampling of Landlocked Arctic Char (<i>Salvelinus alpinus</i>) for Estimating Mercury Exposure and Stable Carbon Isotope Fingerprinting of Essential Amino Acids. <i>Environmental Toxicology and Chemistry</i> , 2020, 39, 893-903. | 2.2 | 5 |
| 69 | Dietary and genetic influences on hemostasis in a Yup'ik Alaska Native population. <i>PLoS ONE</i> , 2017, 12, e0173616. | 1.1 | 5 |
| 70 | ALLOCATION TO REPRODUCTION IN A HAWKMOTH: A QUANTITATIVE ANALYSIS USING STABLE CARBON ISOTOPES. , 2000, 81, 2822. | | 5 |
| 71 | Linkage and association analysis of circulating vitamin D and parathyroid hormone identifies novel loci in Alaska Native Yup'ik people. <i>Genes and Nutrition</i> , 2016, 11, 23. | 1.2 | 4 |
| 72 | Stable isotope analysis of CO ₂ in breath indicates metabolic fuel shifts in torpid arctic ground squirrels. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2017, 209, 10-15. | 0.8 | 4 |

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|----|--|-----|-----------|
| 73 | Polymorphisms in stearoyl coa desaturase and sterol regulatory element binding protein interact with N-3 polyunsaturated fatty acid intake to modify associations with anthropometric variables and metabolic phenotypes in Yup'ik people. <i>Molecular Nutrition and Food Research</i> , 2016, 60, 2642-2653. | 1.5 | 3 |
| 74 | Validation of dried blood spot sampling for determining trophic positions of Arctic char using nitrogen stable isotope analyses of amino acids. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e8992. | 0.7 | 3 |
| 75 | Amino Acid Nitrogen Isotope Ratios Respond to Fish and Meat Intake in a 12-Week Inpatient Feeding Study of Adult Men. <i>Journal of Nutrition</i> , 2022, , . | 1.3 | 2 |
| 76 | Seasonal variation in added sugar or sugar sweetened beverage intake in Alaska native communities: an exploratory study. <i>International Journal of Circumpolar Health</i> , 2021, 80, 1920779. | 0.5 | 1 |
| 77 | Reply to Mantha OL et al.. <i>American Journal of Clinical Nutrition</i> , 2020, 111, 1110-1111. | 2.2 | 0 |
| 78 | Metabolic Characterization of Meat, Fish, and Soda Intake in Males: Secondary Results from a Randomized Inpatient Pilot Study. <i>Obesity</i> , 2021, 29, 995-1002. | 1.5 | 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. <i>FASEB Journal</i> , 2012, 26, lb347. | 0.2 | 0 |
| 80 | Associations between stable isotope ratios and animal-derived dietary protein intake in Yup'ik eskimos. <i>FASEB Journal</i> , 2012, 26, lb342. | 0.2 | 0 |
| 81 | Validation of Stable Isotope Ratios as Biomarkers of Meat, Fish, and Soda Intake. <i>FASEB Journal</i> , 2015, 29, 131.4. | 0.2 | 0 |