
Stable Isotope Probing Related Technologies

time-resolved dna stable isotope probing links ... - desulfobacterales- and coriobacteriaceae-related bacteria were most likely to be the major benzene degraders. key words: benzene degrader, dna stable isotope probing (dna-sip), methanogenic enrichment culture, pyrosequencing, terminal restriction fragment length polymorphism (t-rflp) benzene is well known as a carcinogenic substance and **identifying protist consumers of photosynthetic ...** - cated bottle experiment. dna stable isotope probing, combined with high-throughput sequencing of v4 hypervariable regions from 18s rrna gene amplicons (tag-sip), identified 19 operational taxonomic units (otus) of microbial eukaryotes that consumed m. pusilla. these otus were distantly related to cultured **stable isotope probing of methanotrophic communities** - stable isotope probing of methanotrophic communities jan blees university of basel microbial diversity summer course 2009 marine biological laboratory, woods hole, ma these so-called anme groups are closely related to methanosarcinales and methanomicrobiales, and are thought to oxidise methane in a reversal of the final step **targeted enrichment of cellulase genes with stable-isotope ...** - thesis were previously published in stable-isotope probing and related technologies (pinnell et al., 2011), and in the journal for microbiological methods (engel et al., 2011). this is a true copy of the thesis, including any required final revisions, as accepted by my examiners. **stable isotope probing the n cycle stable isotope probing ...** - stable isotope probing the nitrogen 5 ... utility of stable isotope tracer techniques are also ... tions related to c and n cycling therefore remains strong. over that past two decades molecular **proteomic stable isotope probing reveals taxonomically ...** - stable isotope probing (proteomic sip) technique (45) used in this study expands on current metaproteomic approaches (46–48) by providing detailed information on ... with success to acid mine drainage biofilms to track activity related to 15n and 2h assimilation (45, 51). here we report the application of proteomic sip to quantify **using dna stable isotope probing to identify mtbe and tba ...** - using dna stable isotope probing to identify mtbe and tba degraders in situ katherine clark and dora ogles ... what do we learn from stable isotope probing? • finding 13 c in biomass (usually membrane lipids) ... sequences related to tagn mtbe and tba degraders • many known mtbe and tba **stable isotope informed genome-resolved metagenomics ...** - stable isotope informed genome-resolved ... knowledge gaps related to which soil-associated microorganisms take up plant carbon in the rhizosphere and the fate of that carbon. ... keywords: stable isotope probing, complete genome, saccharibacteria, metagenomics, rhizosphere **stable isotopes as one of nature's ecological recorders** - stable isotopes as one of nature's ecological recorders jason b. west¹, gabriel j. bowen², ... and hydrogen (d2h) and oxygen isotope ratios (d18o) record water-related dynamics in plants and animals [9,10]. these recorders, the d13c, d15n, d18o, d2h ... stable isotope probing approaches to (b). ... **dna, rrna and mrnabased stable isotope probing of aerobic ...** - dna-, rrna- and mrna-based stable isotope probing of aerobic methanotrophs in lake sediment emi_2415 1..15 marc g. dumont,^{1*} bianca pommerenke,¹ peter casper² and ralf conrad¹ 1max planck institute for terrestrial microbiology, karl-von-frisch straÙe, d-35043 marburg, germany. **application of stable isotopes and mass isotopomer ...** - application of stable isotopes and mass isotopomer distribution analysis to the study of intermediary metabolism of nutrients¹ ... the commercial availability of stable isotope (13c, 15n, 2h) ... probing animal metabolism with stable isotopes e51 features of mass spectrometry

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