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Title: **Functional diversity methods workshop**

Most aquatic ecologists analyze aquatic invertebrate biodiversity with species abundance and taxonomic diversity (e.g., taxonomic richness, taxonomic evenness). However, a growing body of research demonstrates that the diversity of species traits (functional diversity) can be a better indicator of ecological processes than taxonomic diversity alone. This three-hour workshop will introduce participants to approaches to extend their community analyses to include species *traits*, such as body size, trophic level (predator, herbivore, etc.), and dispersal capacity (flying, swimming, crawling), among many others. Workshop participants will use the open-source computer program R to analyze functional diversity using various multivariate metrics. Participants are encouraged to bring their own community and trait data for analysis, but practice datasets will also be available.