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An overview of research being undertaken in my group will be presented, including: medicinal chemistry for Parkinson's disease and Burkitt's lymphoma using MDMA (ecstasy) as a lead; design and synthesis of stable phosphohistidine analogues for antibody generation; total synthesis of monosporascone and related natural products; and a combinatorial approach to the identification of putative hydrocarbon biomarkers, using domino-Horner-Wadsworth-Emmons reactions.