



WAKATE INITIATIVE SPECIAL WINE AND CHEESE SEMINAR

演題： Detection and quantitative
characterization of protein-protein
interactions in highly concentrated
solutions

演者： Dr. Allen P. Minton,
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Biochemistry and Genetics, NIDDK, NIH (USA)

日時： 2009年5月13日(すいよび) 7:00pm – 8:00pm

会場： Room 311, Sogo-kenkyu (Building D)

要旨： Biological fluid media contain a high total concentration of macromolecules, ranging from ca. 50 g/L to over 400 g/L. Under such conditions reversible complexes may form that dissociate upon dilution. Information about the presence and nature of such complexes is derived from measurement and interpretation of the composition-dependence of solution properties. In order to interpret the results of such measurements it is necessary to take into account nonspecific interactions between all species of macromolecule present in addition to the specific interaction of interest. We describe two different experimental methods developed in our laboratory specifically for the study of concentrated solutions: nonideal tracer sedimentation equilibrium and dilution gradient static light scattering. Instrumentation, underlying principles, and several applications of each method are presented.

Dr. Minton is one of America's most cited chemists (having numerous papers with greater than 300 citations). His research efforts can be read at the following website. After the seminar a short wine and cheese mixer will be provided so that audience members have a chance to meet the speaker in a relaxing environment.

<http://www2.niddk.nih.gov/NIDDKLabs/IntramuralFaculty/MintonAllen.htm>

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