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Short Talk 10 - NMR in Integrative Structural Biology — Getting a Grip on Loose Ends

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NMR provides unique, site-specific information on structure, interactions, and dynamics that is often highly complementary to data obtained by other techniques. Using NMR we can study biomolecular phenomena that defy the old school structure–function paradigm, such as transient or fuzzy interactions mediated by flexible protein segments, or interactions involving rare, high-energy conformations that evade structural characterization by other techniques. The ability to characterize conformational and interaction dynamics on a wide range of time scales gives NMR a special role in integrative structural biology. In some cases, very simple NMR experiments can provide information that is critically important for model building in conjunction with data from other techniques.

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