



BMRB

BioMagResBank



A Repository for Data from NMR Spectroscopy
on Proteins, Peptides, and Nucleic Acids

Department of Biochemistry
University of Wisconsin–Madison

BioMagResBank (BMRB) Data Deposition and Entry Annotation Requirements

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Presentation topics

- **New ADIT-NMR deposition system – Steve Mading and Dimitri Maziuk in collaboration with the Rutgers RCSB team (Monica Sundd, Monica Sekharan, Zukang Feng, John Westbrook, Helen Berman, and Jasmine Young)**
- **Restraints processing – Jurgen Doreleijers and Jundong Lin in collaboration with the EBI/CCPN (Wim Vranken), Utrecht University (Aart Nederveen, Alexandre Bonvin, and Robert Kaptein, and Radboud University (Gert Vriend and Chris Spronk)**
- **Assigned chemical shift validation systems – David Tolmie, Kent Wenger, and Dimitri Maziuk in collaboration with NESG (Hunter Moseley) and NMRFAM (Gabriel Cornilescu, Hamid Eghlbania, and Liya Wang)**
- **Future issues**



BMRB mission and goals

Mission: Gather and distribute in the public domain as much biological NMR data as possible to further research and education

Goals: 1) Create efficient data deposition systems

Requires minimal user effort

Complete – follows IUPAC recommendations

Free of obvious errors

Promotes uniformity

2) Through annotation improve the usefulness of the data

**Identify anomalous data and communicate issues
with depositors**

Migrate data into standard formats

Carry out value added processes

3) Develop data query systems

Entry retrieval

Longitudinal database searches



