



# Ontologies and Data Integration in Biomedicine

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**ABSTRACT:** Review examples of successful biomedical data integration projects in which ontologies play an important role, including the integration of genomic data based on Gene Ontology annotations, the cancer Biomedical Informatics Grid (caBIG) project, and semantic mashups created by the Semantic Web for Health Care and Life Sciences community. Challenges to data integration in biomedicine will also be discussed.

**BIO:** Dr. Bodenreider is a Research Scientist at the Lister Hill National Center for Biomedical Communications, US National Library of Medicine, NIH. His research interests include terminology, knowledge representation and ontology in the biomedical domain, both from a theoretical perspective and in their application to natural language understanding, reasoning, information visualization and integration. Dr. Bodenreider is a Fellow of the American College of Medical Informatics. He received a M.D. degree from the University of Strasbourg, France in 1990 and a Ph.D. in Medical Informatics from the University of Nancy, France in 1993. Before joining NLM in 1996, he was an assistant professor for Biostatistics and Medical Informatics at the University of Nancy, France, Medical School.

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