



**Data Integration in the Life Sciences: Second International Workshop, DILS 2005, San Diego, CA, USA, July 20-22, 2005, Proceedings (Lecture Notes in Computer Science / Lecture Notes in Bioinformatics)**

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The explosion in the number and size of life science data resources, and the rapid growth in the variety and volume of laboratory data has been fueled by world-wide research activity and the emergence of new technologies. The modeling, management and analysis of this data often requires a comprehensive integration of heterogeneous and typically semistructured data, distributed across many possibly data sources. Recent interoperability standards such as XML and WSDL solve some (easy) problems, but data and process integration often remain time-consuming and error-prone manual tasks. The difficulty of these tasks is compounded by the high degree of semantic heterogeneity across data sources, varying data quality, and other domain-specific application requirements. DILS 2005 was the 2nd International Workshop on Data Integration in the Life Sciences, following a successful first DILS workshop, March 2004 in Leipzig, Germany. For a specialized workshop, the DILS 2005 call for papers created a large interest (over 50 abstracts and eventually 42 paper submissions; an increase of over 20% over DILS 2004), out of which the international Program Committee selected 15 full papers, as well as 5 short papers, and 8 posters/demonstrations, which are all included in this volume. They cover a wide spectrum of theoretical and practical issues including scientific/clinical workflows, ontologies, tools and systems, and integration techniques. DILS 2005 also featured keynotes by Dr. Peter Buneman, Professor at the School of Informatics, University of Edinburgh, and Dr. Shankar Subramaniam, Professor at the Department of Bioengineering and Chemistry, UC San Diego. The program also included 6 invited presentations and reports on ongoing research activities in academia and industry and a panel organized by the AMIA Geomics Working Group.

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