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Dr. Baker is an Associate Professor of Bioinformatics at Baylor University where his research interests include distributed biological databases and the automated elucidation of gene-sets or pathway network relationships. Prior to coming to Baylor, Dr. Baker worked in the Genome Annotation and Systems Biology group at Oak Ridge National Laboratories where he piloted projects attempting to integrate molecular biology, bioinformatics, computational biology software. This prior and on-going work focuses on data interoperability and has aided in the development of several large-scale collaborative bioinformatics tools: MouseTrack, a system that tracks mutagenized mice for the Tennessee Mouse Genome Consortium; GeneKeyDB, a gene retrieval system designed to aggregate gene-related keys from distributed databases; MOMA, a mitochondria SNP database for forensic data, and the *Shewanella* Knowledge Base, an effort to electronically connect geographically disparate researchers. In his capacity as a developer for the Ontological Discovery Environment (ODE), Dr. Baker and his collaborators attempt to integrate gene-trait relationships using discrete set theory. He also serves as part of several teams attempting to identify relevant gene networks in individuals suffering Post Traumatic Stress Disorder and Autism.