



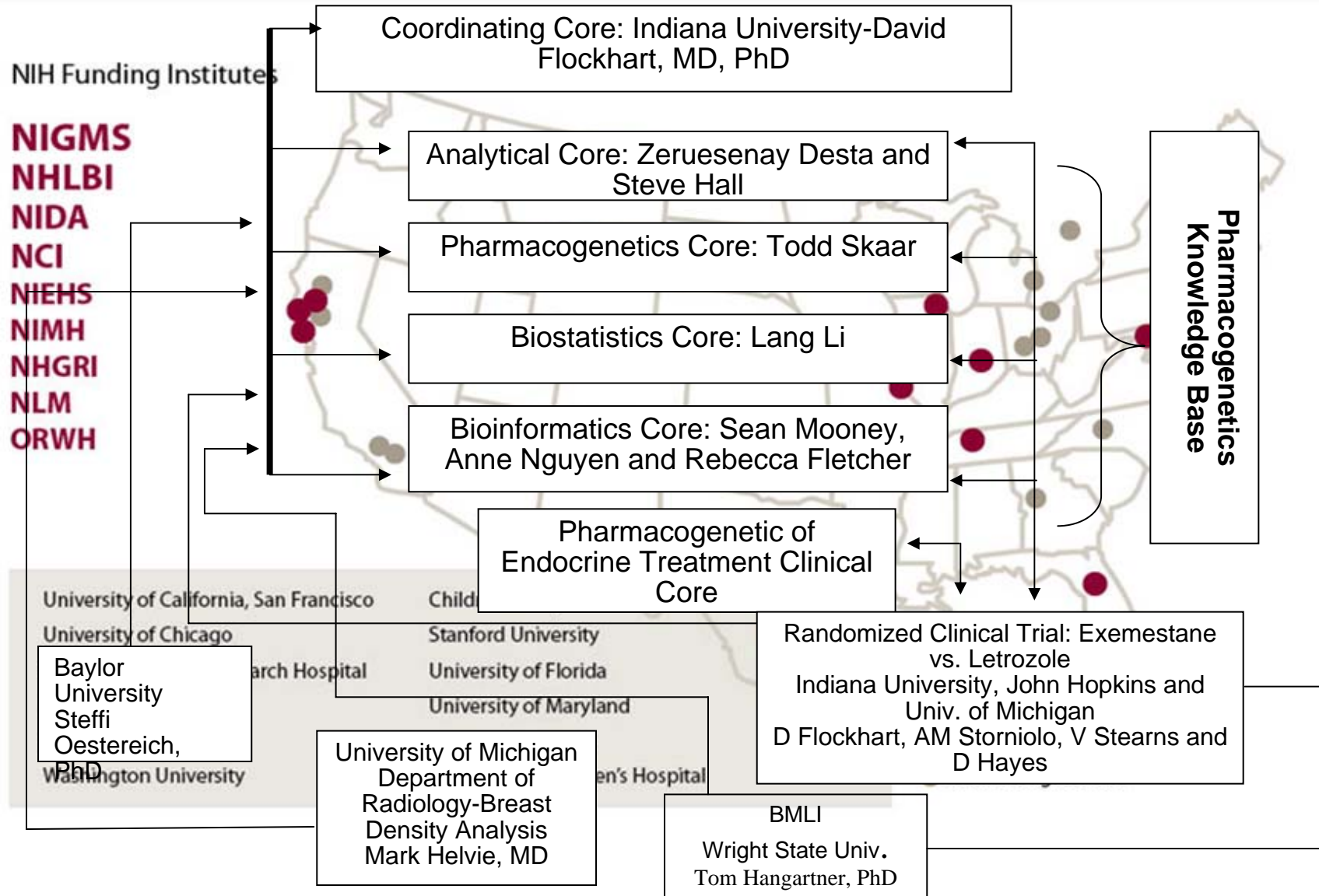
# COBRA: A Data Management System for Genotype and Phenotype Data

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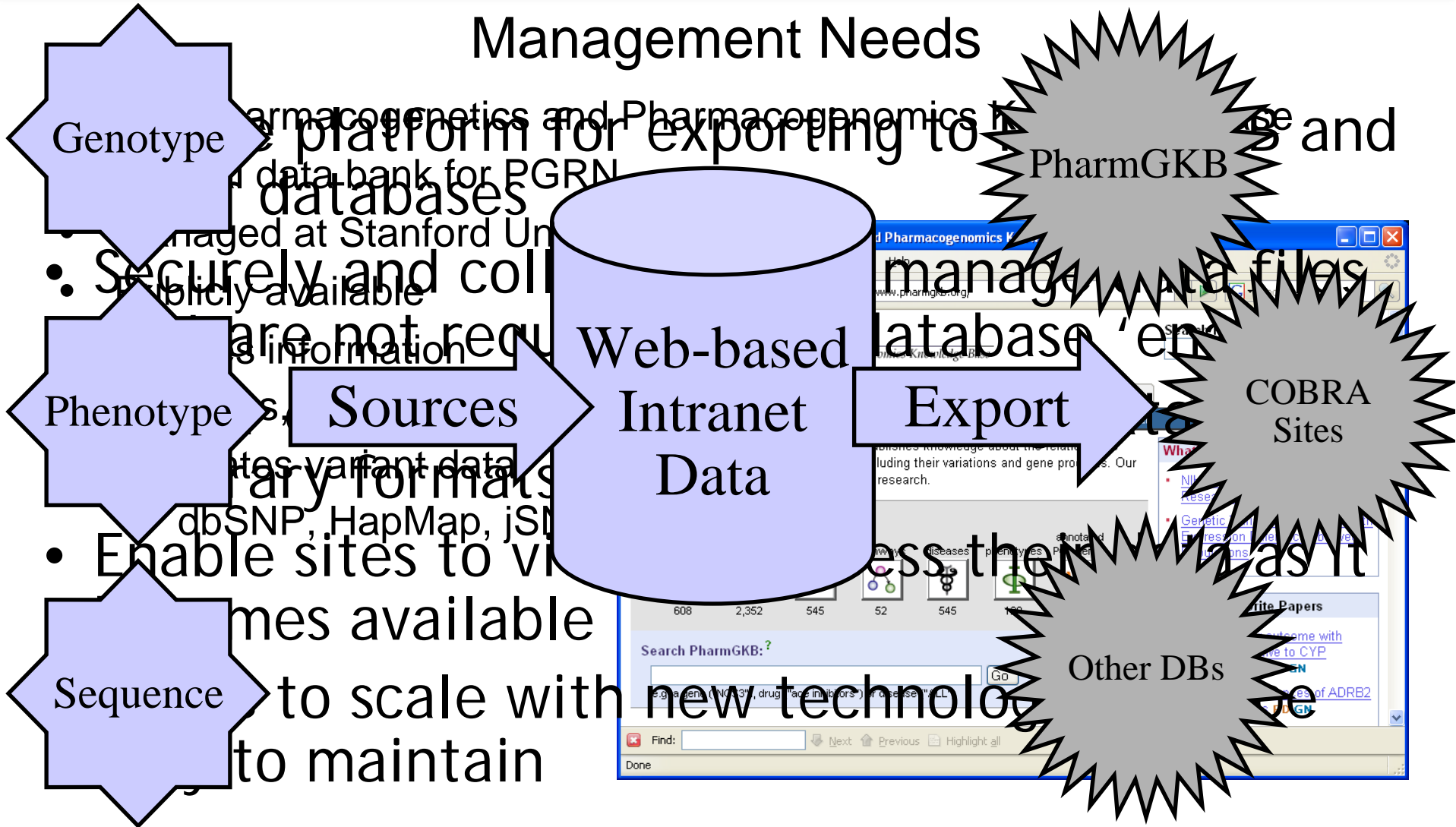


- COBRA - Research in breast cancer Pharmacogenetics (Flockhart, PI)
- PGRN - Pharmacogenetics Research Network
- “The **Pharmacogenetics Research Network (PGRN)** is a nationwide collaboration of scientists studying the effect of genes on people's responses to a wide variety of medicines.”





# Management Needs





# Phenotype

**1. Manage genotype data and annotate polymorphisms from resequencing data.**

**2. Facilitate analysis of the data to elucidate genotype/phenotype associations.**

**3. Automate submission of data to PharmGKB.**

The screenshot displays the 'COBRA Intranet' interface for a 'Tamoxifen Clinical Trial: Quality of Life Questionnaire'. The main form is divided into sections for patient information and symptom reporting. A sidebar on the left provides navigation options: '8. Add Sample', '9. Add Genotype', '10. Add Haplotype', and '11. Add Sequence (Excel)'. The bottom panel offers options for adding data: 'Web Form | Batch Excel | Excel' and 'Upload JR sequence data'. The main form includes a 'Save' button and a 'Logout' link in the top right corner.



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