

*Brainstorming scientific opportunities:
Synthesis on topics*
Gene/Environment Interactions

<http://oppnet.nih.gov>



The Challenges

- **Relevance and quality of animal models for translation to human research**
- **A lack of sophisticated behavioral tools focused on phenotypes and endophenotypes (both typical and atypical)**
- **A lack of multi-level environmental measures**
- **A lack of truly trans-disciplinary teams**



The Opportunity

- **Advances in genetic technology has outpaced development of behavioral and environmental tools and methods**
- **Bioinformatic tools have advanced**
- **Translational disciplinary teams need state-of-the-art measures and tools in all three areas (genetics, environment, and behavior)**



What does this concept provide that is lacking or needed to advance the field?

- **Many GXE studies have had disappointing results**
- **The linking of the three concepts (genetics, environment, and behavior) will form the basis of improved translational research for human health and behavior**

