



National Center for
Research Resources

NATIONAL INSTITUTES OF HEALTH

Translating research from basic discovery to improved patient care

Biomedical Research: Novel Interactions Required

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NIH Mission

NIH is the steward of medical and behavioral research for the Nation. Its mission is science in pursuit of fundamental knowledge about the nature and behavior of living systems and the application of that knowledge to extend healthy life and reduce the burdens of illness and disability.

Types of Research

- **Basic**
- **Clinical**
- **Translational**
 - **Basic to clinical**
 - **Clinical to practice**
 - **Patient Community to researcher**
- **Clinical Practice**

Breadth of Research

- **Molecule**
- **Sub-cell**
- **Cell**
- **Organ**
- **System – e.g., nervous system**
- **Body**
- **Groups**
- **Populations**

Multiple Expertise

- **Wet laboratory scientist**
- **Computer scientist**
- **Engineering**
- **Protein, molecular structure**
- **Signaling Pathways**
- **Imaging technologies**
- **Clinical assessment**
- **Patient observations**

Interdisciplinary Teams

- **Find collaborators**
- **Non-geographic**
- **Develop trust**
- **Share ideas; brainstorming**
- **Find resources – patients, technology, reagents, other**
- **Collect data – how, where, who**
- **Share data, analysis, interpreting, writing**
- **Publishing; Depositing data**
- **Assemble and Disassemble as needed**

New Models for Interaction

- **Use of web, multi-media**
- **Social networking: LinkedIn, Profiles**
- **Web conferencing**
- **Forums, wikis**
- **GRID – data sharing**
- **Tool sharing – open source**
- **Consortiums, networks**
- **Partnerships – industry, academic, patient**
- **Boundaries expanding, role expansion**



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