Pharmacology and Toxicology Learning Objectives for Graduate Education

National Meeting of Directors of Graduate Studies in Pharmacology Vanderbilt University July 21-23, 2005

> J.R. Haywood Department of Pharmacology & Toxicology Michigan State University

# What is the Purpose of the Graduate Learning Objectives Project?

To create a framework of the knowledge and skills that graduate students are expected to possess at the end of graduate training

# Where did this Concept Originate?

 AMSPC "Knowledge Objectives" provided a foundation for medical pharmacology education

#### Where did this Concept Originate?



#### http://www.aspet.org/AMSPC/Knowledge\_Objectives/ default.asp

# Where did this Concept Originate?

- AMSPC "Knowledge Objectives" provided a foundation for medical pharmacology education
- A similar basis is missing for graduate education

# Why Graduate Learning Objectives?

- Students enter programs with different levels of knowledge from a variety of backgrounds
- Students learn at different rates through different mechanisms (reading, listening, observing...)
- Faculty tend to teach what they know best – narrow knowledge base

# Why Graduate Learning Objectives?

- Provide students with skill sets that are necessary for their careers
  - Critical thinking
  - Integration of information
  - Laboratory management
- Clear objectives of a program may serve as a valuable recruiting tool
- Students need to know what is expected of them

# Why Graduate Learning Objectives?

- Systems-based medical education has obscured traditional mechanisms of providing a pharmacology knowledge base
- Integrated (common) graduate curricula and interdisciplinary research programs have obscured the way graduate programs define themselves

#### The Plan of Action

- Organize a Task Force to develop a working outline of the Learning Objectives
- Partner with AMSPC and ASPET Education Committee
- Assess present curriculum
- Start the discussion
  - Identify topics/areas to be included
  - Disseminate to departments for comment
- Develop timetable for implementation

#### **Breaking Down the Task**

- What do we have now?
- What do we want to create?
  - Limited to academic core knowledge?
  - Laboratory skills?
  - Ethical issues?
  - Professional skills?
- Should this focus only on the Ph.D. student?

#### The time to get started is now...