FDA's Regulatory Science Educational Activities

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Overview of FDA's Initiatives

- Background on Regulatory Science
- Educational Resources on FDA Website
- Speakers at Conferences
- Regulatory Science Discussions
- FDA Training Programs
- Regulatory Science Curriculum
- Benefits of Regulatory Science Initiatives

Background on Regulatory Science

- FDA published "Advancing Regulatory Science,"
 2010
 - FDA's Regulatory Science definition development and use of new tools, standards and approaches to more efficiently develop products and to more effectively evaluate product safety, efficacy and quality
 - FDA's role work with partners to strengthen field, both within the agency and throughout the Nation

Background on Regulatory Science

- Regulatory Science Workforce
 - Industry
 - Academia
 - FDA

Educational Resources on FDA Internet

- For students, academia and industry:
 Consolidation of training and informational resources from one web site
 - http://www.fda.gov/Training/default.htm
- Course materials for educators
 - CDRH

Educational Resources on FDA Website

- On-line education examples
 - FDA 101
 - CBER OCTGT Learn
 - CDER Learn
 - CDRH Learn
 - CFSAN Foods
 - CTP Retailor Training and Enforcement
 - CVM Veterinary Drug Regulatory Life Cycle
 - NCTR Array Track Tutorials
 - ORA University
- http://www.fda.gov/Training/learningportal/ucm417483.htm

FDA Speakers at Conferences

- Invited presenters at conferences and meetings
- FDA sponsored workshops
 - http://www.fda.gov/NewsEvents/MeetingsConferencesWorkshops/default.htm
 - FDA Science Forum, May 27-28, 2015

FDA Participation in Regulatory Science Discussions

- Institute of Medicine "Strengthening a Workforce for Innovative Regulatory Science in Therapeutics"
- UMD CERSI "Degree Programs in Regulatory Science"
- PhRMA Foundation, University of Rochester and Georgetown University - "Regulatory Science Core Competencies and Curricular Guidelines"

Training Programs

- Students Programs Examples
 - ORISE Research Participation Program for Students
 - all Centers
 - FDA Regulatory Science Student Internship
 - CDRH Student Internship
 - CDER Experiential Pharmacy Program
 - CVM Veterinary Clerkship
 - JIFSAN Student Internship
 - NCTR Science Student Internship
- http://www.fda.gov/AboutFDA/WorkingatFDA/FellowshipInternshipG raduateFacultyPrograms/ucm395746.htm

Training Programs

- Post-Graduate Fellowship Programs Examples
 - ORISE Research Participation Program all Centers
 - FDA Service Fellowship Plan all Centers
 - FDA Commissioner's Fellowship Program
 - FDA NCI/NIH Inter Agency Oncology Fellowship Program
 - CDRH Medical Device Fellowship
 - CTP Regulatory Science Fellowship
 - http://www.fda.gov/AboutFDA/WorkingatFDA/Fellowshi pInternshipGraduateFacultyPrograms/ucm395747.htm

Regulatory Science Academic Programs

- Centers of Excellence in Regulatory Science and Innovation
 - University of Maryland
 - Georgetown University
 - University of California SF Stanford
 - Johns Hopkins University
 - http://www.fda.gov/scienceresearch/specialto pics/regulatoryscience/ucm301667.htm

Regulatory Science Academic Programs

- Instructional strategies that involve the classroom <u>and</u> hands on experience
 - Educational strategies such as case studies
 - Hands on experience Industry and Academia
 - Internships and Fellowships that include interactions with FDA
 - » Industry and academia perspective of product approval

Benefit of Regulatory Science Initiatives to FDA, Academia and Industry

- Through training programs the development and use of new tools, standards and approaches
- Scientists who:
 - Are prepared to work in areas of product development and approval
 - Need less time to be oriented and trained

Thank you.