



2015 Science Writers Symposium

How innovative research inspires agency inventions

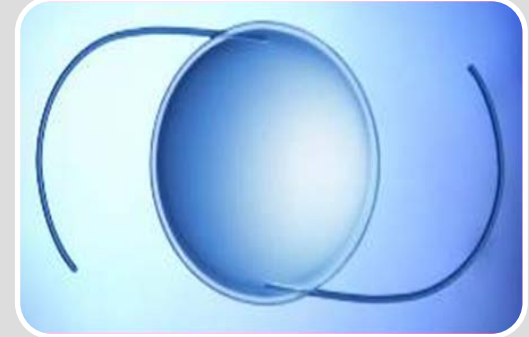
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FDA Research Drives Innovation

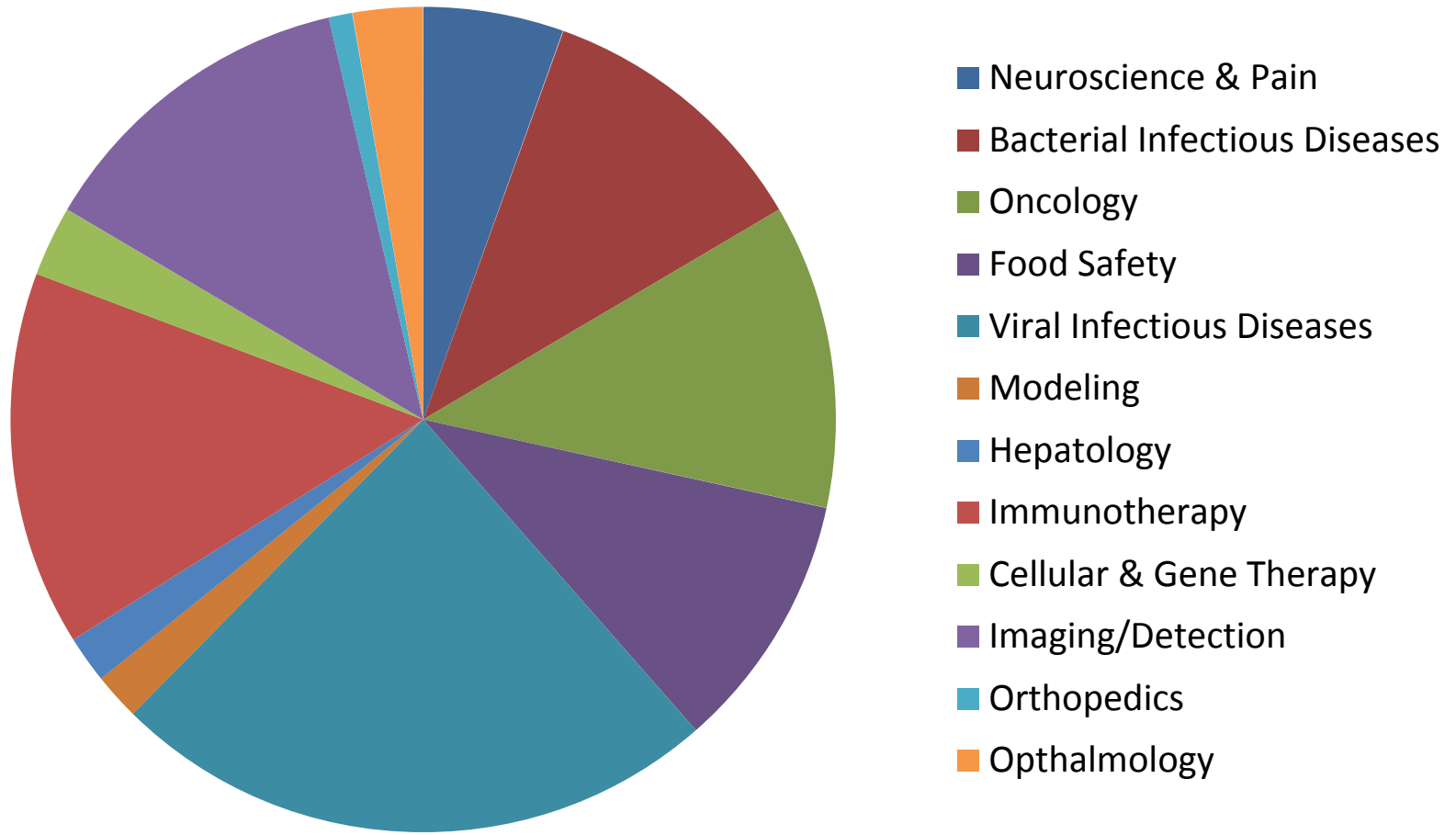


Protect consumers and enhance public health by developing tools and methods to maximize compliance of FDA regulated products and minimize risk associated with those products

Develop and evaluate intervention and preventive control strategies for microbial and chemical hazards in FDA-regulated food, dietary supplements, and cosmetics products

Evaluate new and emerging technologies to advance medical device innovation

FDA Inventions by Research Area





What Is Technology Transfer?

Technology Transfer is the process by which scientific findings, know how, inventions, or research materials developed with federal funding are transferred and utilized to fulfill public and private needs. Technology Transfer enables companies, academic institutions, state and local governments, and federal laboratories to work together collaboratively to develop innovative technologies and marketable products.

Technology Transfer provides opportunities to

Expand the
U.S.
technology
base

Maximize return
on investment in
Federally funded
R&D

Advocate
commercialization
of new
technologies
developed by
agency personnel

Protect
intellectual
property through
patents and
licensing

Establish
Government
and private-
sector
collaborations



Transfer FDA inventions to external partners as part of the public health mission

**FDA
Technology
Transfer**

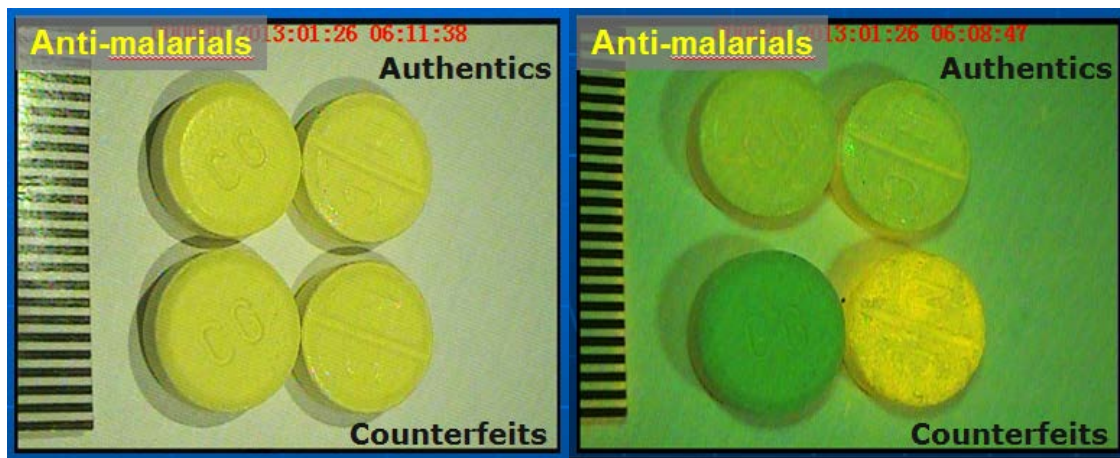
Advancing FDA science through collaborations

Build a strong technology transfer program



Counterfeit Detection Device

- Streamline analysis of samples
- Real-time, low cost, portable
- Minimal training needed; users do not need scientific/technical background





FDA

U.S. Department of Health and Human Services
U.S. Food and Drug Administration

Meningitis A Vaccine for Africa



- A key to affordable vaccine from FDA invention—a new vaccine conjugation technique
- The conjugation technology licensed from FDA to PATH, for use in the Meningitis Vaccine Project
- More than 217 million people vaccinated since Dec 2010





FDA Inventions—Selected Examples

Invention	Regulatory Science Need
Confocal Fiber-Optic Laser Method for Intraocular Lens Power Measurement	Improving device quality and manufacturing; improving medical device safety
Method of Detecting and Quantifying Contaminants in Heparin Preparations	Improve product quality and design, manufacturing processes, and product performance relating to safety
Nonpathogenic Bacteria, Useful as a Natural Biocontrol Agent for Elimination of Food-borne Pathogenic Bacteria	Develop and evaluate intervention and preventive control strategies for microbial and chemical hazards in CFSAN-regulated products
Direct Impact Spark Ionization (DISI) Mass Spectrometry (MS) for Identification of Microbes	Advance scientific approaches and tools required to support public health