



# NIH PORTFOLIO OVERVIEW

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Federal Agency: National Institutes of Health (NIH)

Interagency Pain Research Coordinating Committee

March 27, 2012

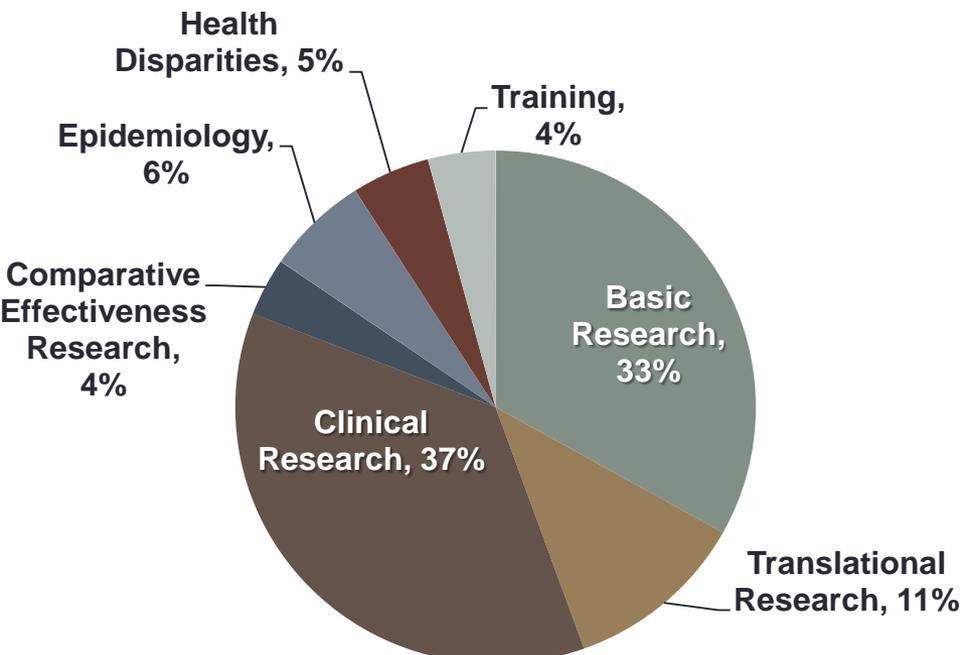
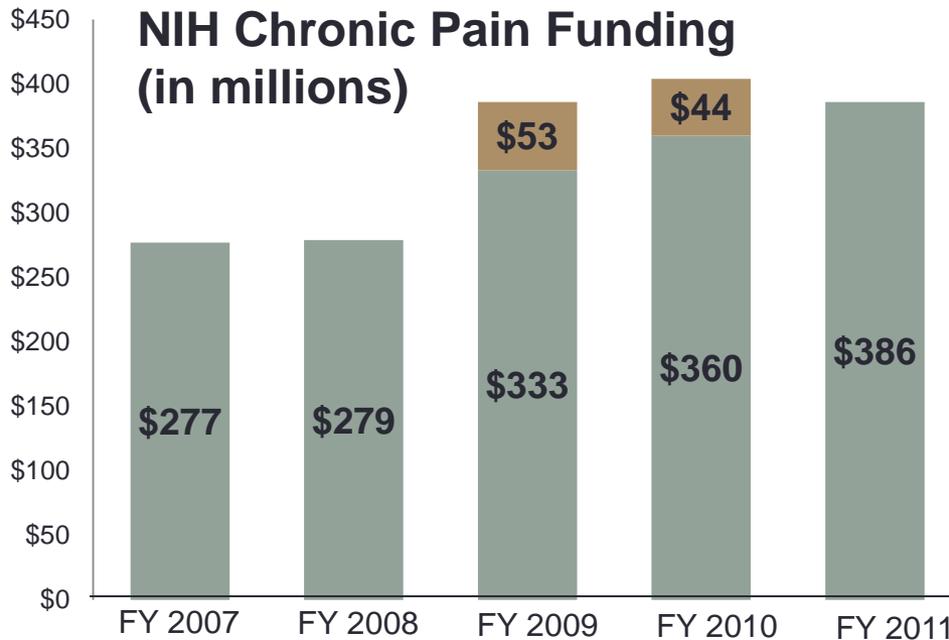
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# Highlights of Pain Research Portfolio

- The NIH Pain Consortium:
  - Annual Symposium
  - Centers of Excellence in Pain Education
  - Chronic low back pain initiative
- NIH Neuroscience Blueprint Grand Challenge on Pain
- NIH recent workshops/meetings - ME/CFS, TMJD, and Vulvodynia
- Vulvodynia research plan developed
- NINR Pain Methodologies Boot camp
- The NINDS Headache Common Data Element (CDE) Project

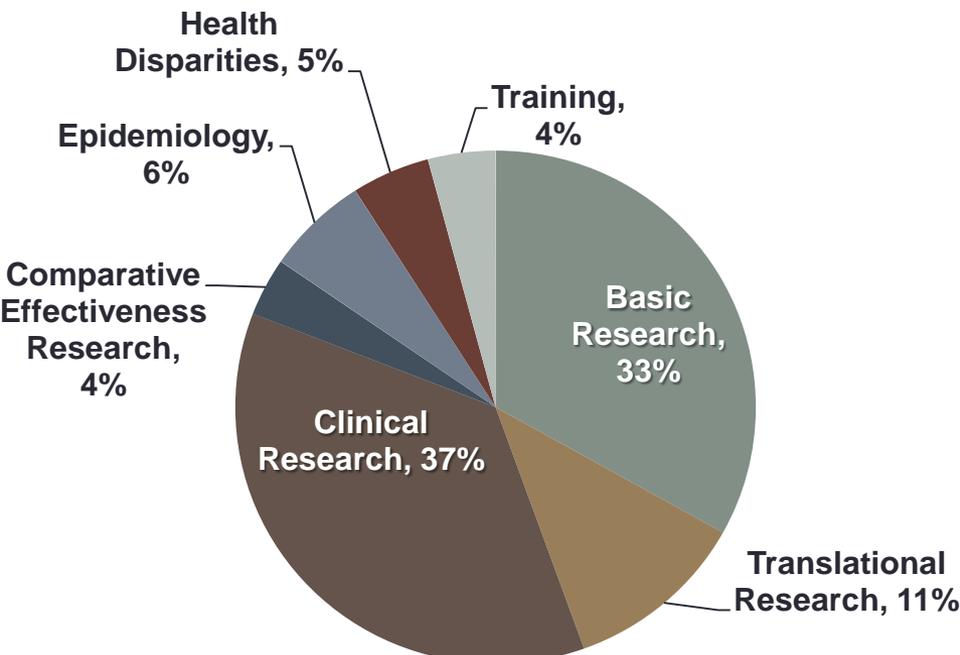
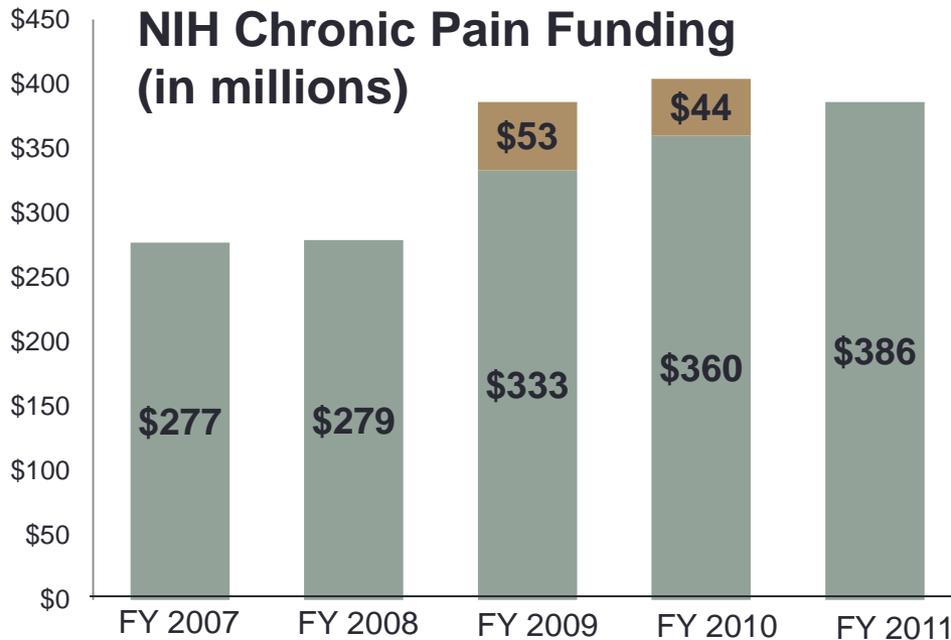
## NIH Chronic Pain Funding (in millions)



# Highlights of Pain Research Portfolio

- Researchers identify Piezo proteins, ion channel family involved in mechanotransduction and essential for pain sensation
- Small-molecule, QAQ, can optically control pain-sensing neurons
- Brain imaging detects changes due to chronic prostatitis/chronic pelvic pain syndrome
- Translational research leads to first clinical trial on gene therapy for cancer pain
- Large scale prospective study confirms and finds new risk factors for temporomandibular joint disorders

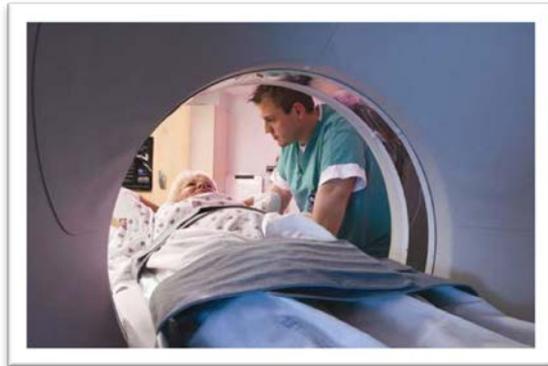
## NIH Chronic Pain Funding (in millions)



# Mechanisms Used to Support Pain Research

- NIH mainly uses the **R01** mechanism to support pain research
  - Solicitations for applications published in Funding Opportunity Announcements (FOAs)
  - NIH pain research grant applications (FY2008-2010) in response to 300+ FOAs
- **R21 Exploratory/Developmental Grants** - for exploratory and developmental, potentially high risk research projects
- **R03 Small Research Grants** - for small research projects that can be carried out in a short period of time with limited resources
- **Center grants and cooperative agreements** - for large-scale complex projects and clinical trials
- The NIH Pain Consortium member Institutes and Centers often co-sponsor pain initiatives/FOAs that represent interests of more than one Institute or Center
  - Example: Omnibus initiative “Mechanisms, Models, Measurement, and Management of Pain”

# Partnerships Used to Support Pain Research



## Osteoarthritis Initiative

- A multicenter, longitudinal, prospective observational study of knee osteoarthritis (OA).
- PPP between NIH and private industry
- Goal: to develop a public-domain research resource to facilitate the scientific evaluation of biomarkers for OA as potential surrogate endpoints for disease onset and progression

An International Resource

