



OFFICE OF DIETARY SUPPLEMENTS

Visit the ODS Web site
<http://ods.od.nih.gov>

ODS Strategic Plan Comments:
ODSplan@od.nih.gov





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Public Meeting

Review of Strategic Plan:
2004-2009

Bethesda, MD

May 20, 2005



WHY A PUBLIC MEETING ?

- Revised Strategic Plan Adopted in 2004
- Provide a Mechanism for ODS Stakeholders to Comment on the SP
- Identify Emerging & New Needs & Opportunities for Possible Inclusion in ODS SP in the Next 4 Years



Mission Statement

The mission of the ODS is to strengthen knowledge and understanding of dietary supplements by evaluating scientific information, stimulating and supporting research, disseminating research results, and educating the public to foster an enhanced quality of life and health for the U.S. population.



ODS Strategic Plan Goals in 2004-2009

- Expand investigation of role of DS in reducing risks for chronic diseases
- Foster research on DS in optimal health & performance
- Stimulate & support study of DS effects on biological systems
- Promote & support improvements to DS methodologies useful in DS studies
- Expand & conduct outreach activities



Strategic Plan Goals: 2004-2009

- 1998 versus 2004
 - Orientation
 - Then: evaluate, explore, improve
 - Now: expand, stimulate, foster, promote, reach out
 - Research Objectives vs. Initiatives
 - Then: specific diseases
 - Now: broader emphasis
 - Communication
 - Then: scientists, health care providers, and public
 - Now: public, health care providers, and scientists



Incorporates DHHS Strategic Plan Goals & NIH Roadmap Priorities

- Increase application of research results
- Utilize new & emerging technologies
- Expand use of human resources
- Develop scientifically rigorous population-based studies of DS interventions
- Establish mechanism for continuous evaluation of progress



Implementing the Strategic Plan: Activities Initiated in 2004-2005

- Incorporate new approaches & technologies in research portfolio
- Expand & strengthen communication with ODS user community
- Greater emphasis on trans-NIH & trans-agency collaboration, cooperation, & communication
- Increase efforts on education & career development
- Develop & adopt new system for tracking ODS programs & activities
- Review & evaluate all ODS programs





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Scope of Current ODS Programs

Rebecca B. Costello,
Deputy Director



ODS Programs & Activities

- ODS Portfolio of Grants, Contracts, & Interagency Agreements
- Analytical Methods & Reference Materials
- Botanical Research Centers
- Communications & Information
- Dietary Supplement Label Databases & Surveys of Supplement Use

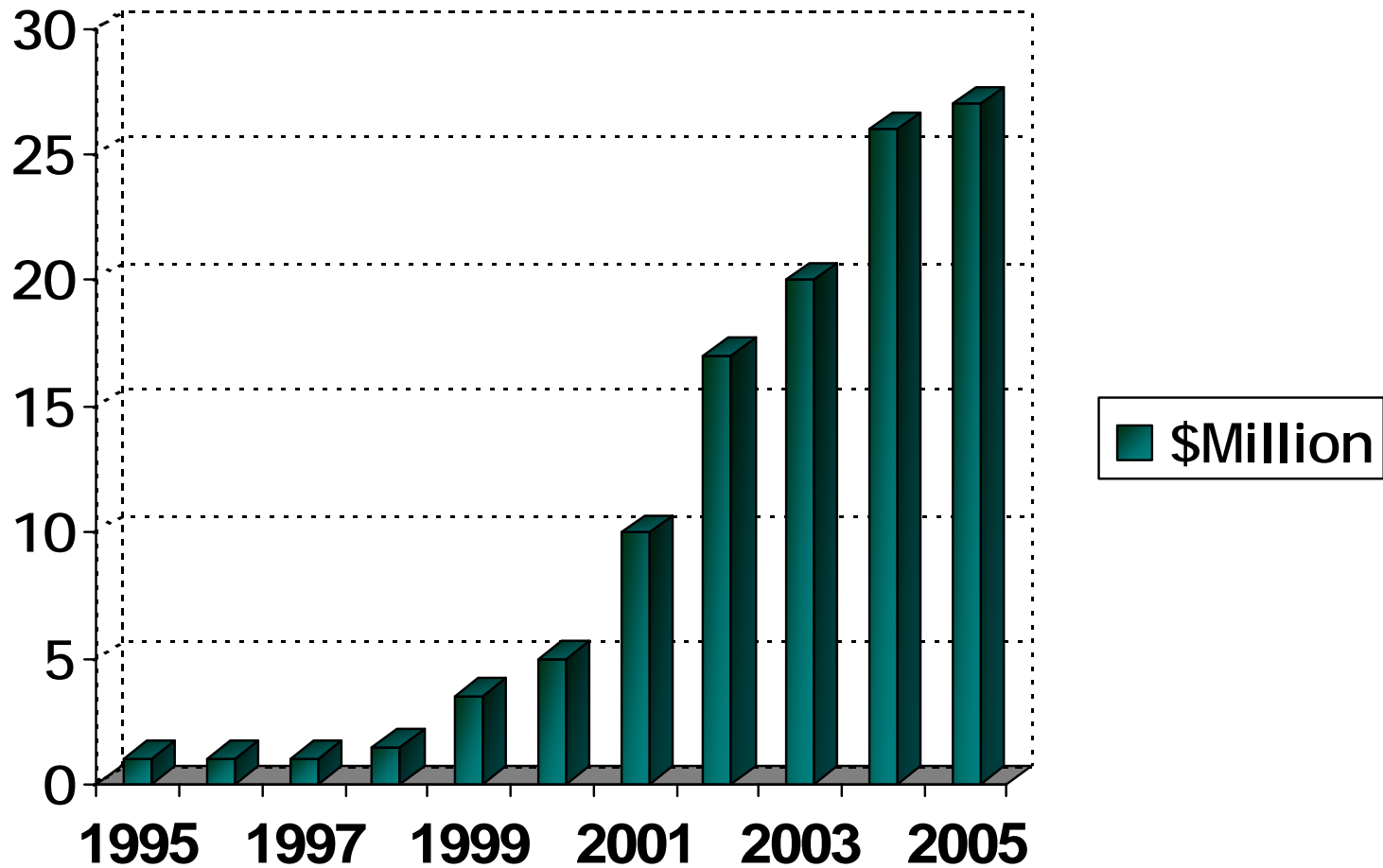


ODS Programs & Activities

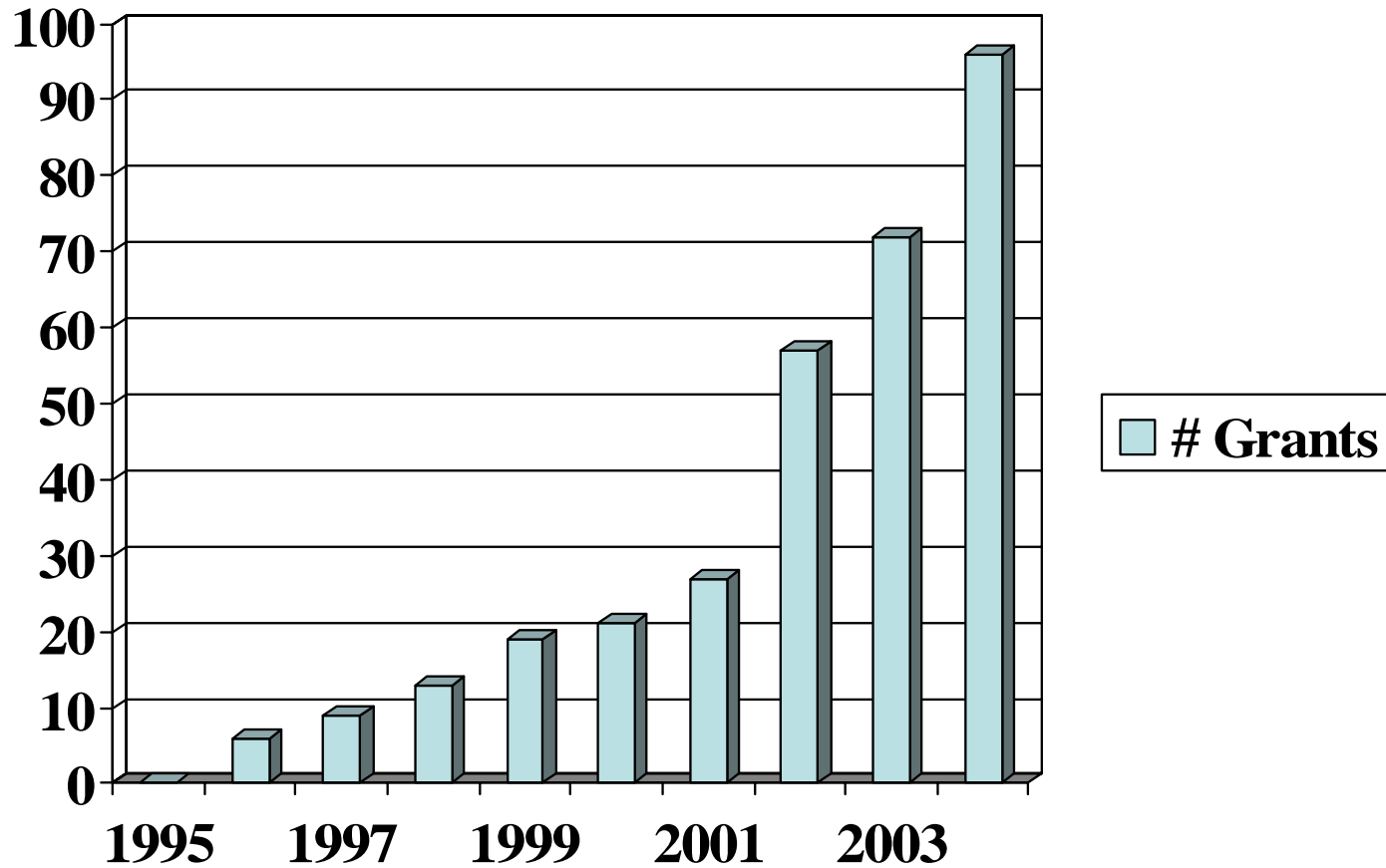
- Disease Prevention & Health Promotion
- Evidence-Based Reviews
- Health Effects of Bioactive Factors
- Research & Reference Public Databases:
CARDS & IBIDS
- Training & Career Development
- Workshops & Conferences



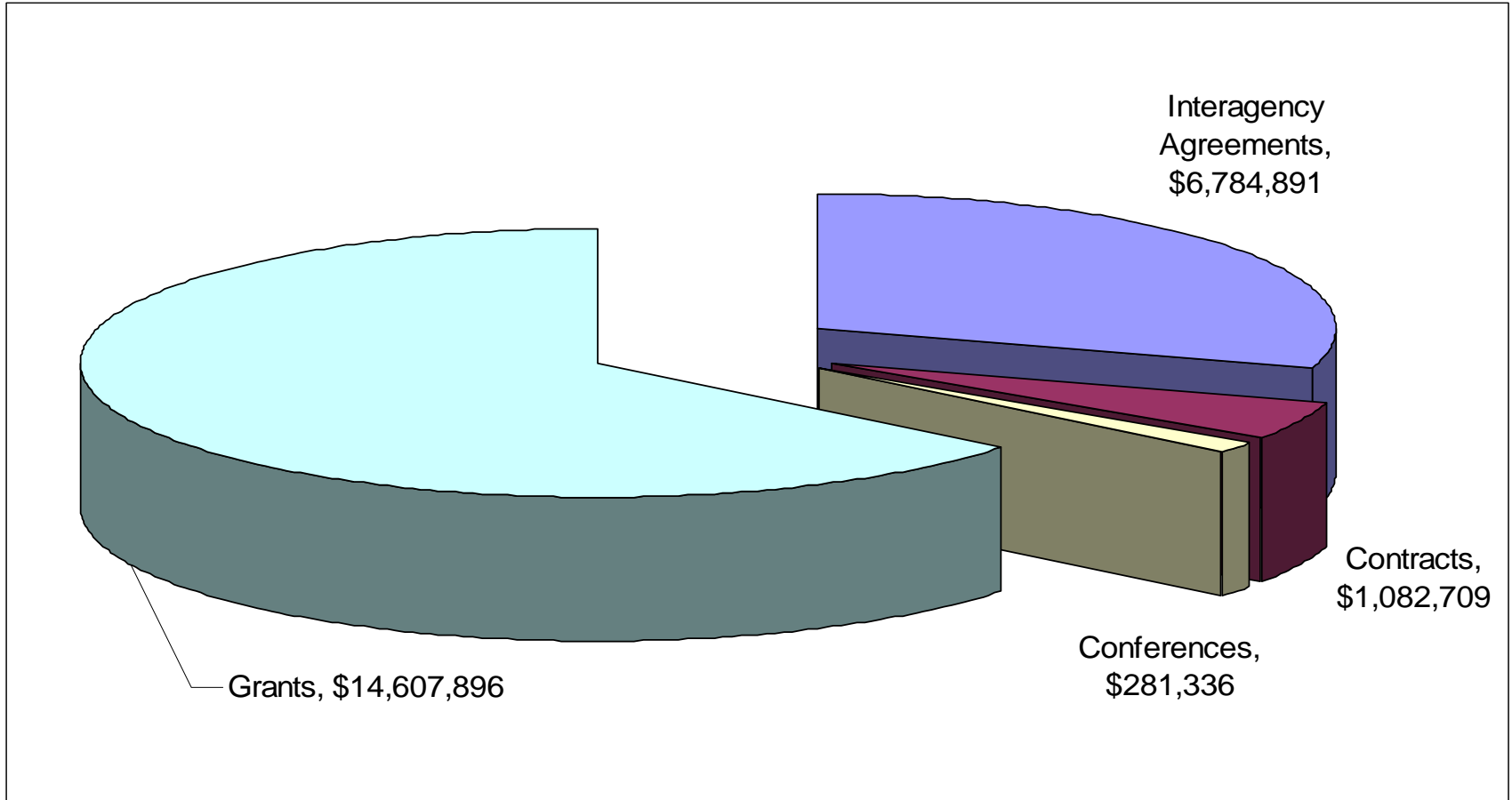
ODS Budget 1995 - 2005



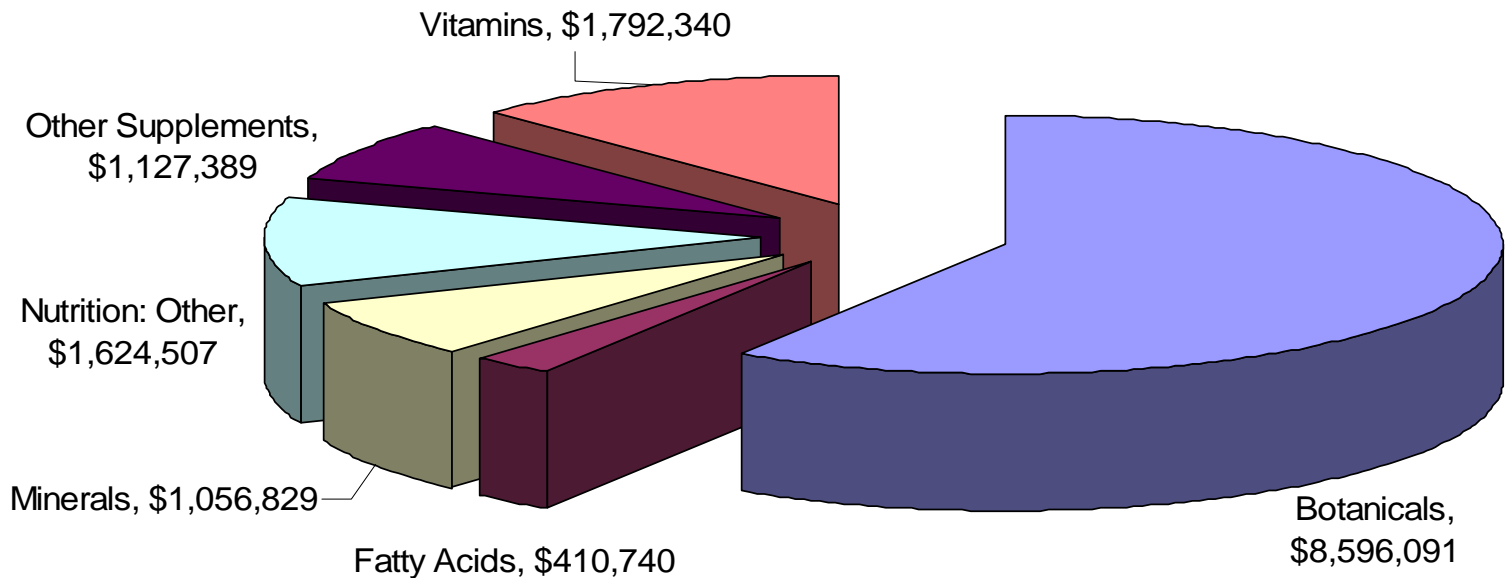
ODS Grants 1995 - 2004



ODS Funding by Mechanism, FY2004



ODS Funding by Supplement Category, FY2004



Dietary Supplement Methods & Reference Materials

- Opportunities for public-private partnership
 - Establish priorities (botanicals and others)
 - Identify potential research partners
- Develop, validate, share analytical methods
- Produce, share reference materials
- Applications
 - Research: characterization of test substances
 - Industry: implementation of GMPs/product formulation
- Process depends on stakeholder participation!

Saldanha, LG, Betz, JM, Coates, PM (2004) JAOAC INT 87:162-165



Dietary Supplement Methods & Reference Materials

- Develop Methods
 - USDA, FDA, private labs
- Validate Methods
 - AOAC International
- Produce Reference materials
 - NIST, NRC (Canada), USP, private contractors
- Disseminate Information resources
 - Electronic herbarium, Textbook of Botanical Microscopy (AHP)



Botanical Research Centers 2005-2009



- Identify and Characterize Botanicals
- Assess Bioavailability and Bioactivity
- Identify Active Constituent(s) and Explore Mechanism(s) of Action
- Pre-Clinical & Clinical Evaluations



Botanical Research Centers

- University of Illinois at Chicago
- Purdue University/University of Alabama
- Iowa State University/University of Iowa
- Pennington Biomedical Research Center
of the Louisiana State University
- Wake Forest University & Harvard University
- Memorial Sloan Kettering Cancer Center

Awarding Organizations:

ODS, NCCAM, NIEHS, ORWH



Communications & Information Goals

- Enhance Awareness of ODS & its Mission
- Increase Range & Maintain Quality of ODS Information Products
- Establish ODS as Source of Accurate & Credible Information

(Comprehensive Needs Analysis of Program Report Due July 2005)



Dietary Supplement Label Databases & Surveys of DS Use

- Support Measurement of Nutritional Biomarkers in NHANES
- Support NHANES DS Label Database & Its Applications
- Collaboration with ARS/USDA on Integration of DS Ingredient Data into Food Composition Databases



Dietary Supplement Label Databases & Surveys of DS Use

- Supporting Analysis of Data on Motivation of Adults for DS Use
- With NCI & NHLBI, supporting:
 - DS Database Software Development
 - Error Measurement in DS Intake Assessment



Disease Prevention & Health Promotion

- New Initiative in 2005
- Develop & Implement a Framework for ODS Focus on Role of DS in Disease Prevention & Health Promotion



Evidence-Based Reviews

- Sponsor systematic literature reviews on dietary supplement efficacy and safety
- Assist ODS and NIH partners in developing appropriate research agendas



Current Status

■ Completed Reviews

- Ephedra in weight management and athletic performance enhancement
- Omega-3 fatty acids in foods and supplements for a variety of health conditions

■ Ongoing Reviews

- Antioxidants in berries and B-vitamins for age-related neurodegenerative diseases
- Health effects of vitamin D
- NIH SOS Conference on Multivitamins/minerals in Chronic Disease Prevention



Future Evidence-Based Reviews

- Selections based on:
 - Level of scientific evidence underlying current practice
 - NIH interest
 - Outcome of conference or workshop
 - Clinical relevance and importance



Health Effects of Bioactive Factors

- Trans-Agency Collaborative Effort
- Define Bioactive Food Components
- Identify Guiding Principles on Ways to Categorize & Assess Health Effects of Bioactive Factors
- Publication of Findings



Research & Reference

Public Databases

- CARDS - Computer Access to Research on Dietary Supplements
- IBIDS - International Bibliographic Information on Dietary Supplements
- Both Publicly Available



CARDS

- Contains Federally Funded Research Projects on DS
- Includes NIH Projects 1999-2003; 2004 Data Being Added Now
- Also Includes USDA Projects
- Searchable, for example by:
 - DS ingredient
 - Type of study
 - Health Outcome



IBIDS

- Contains over 737,100 Citations on Dietary Supplements
- Wide Range of Topical Entries
- Sources: MEDLINE, AGRICOLA, AGRIS, CAB Abstracts & CAB Health
- Easily Searchable
- Updated Continuously



Training & Career Development

- **Intramural Activities:**
 - Co-Funding with ICs in Support of Young & Foreign Investigators
 - Fund Training Positions in Agencies Collaborating on ODS Projects
- **Extramural Activities:**
 - Co-Funding IC Institutional Training Grants
 - Support Training & Career Development at Botanical Research Centers
 - Fund Career Development Awards with NICHD & ORWH
 - Fund Young Investigator Travel Awards



Workshops & Conferences

- Mechanism to Assess New & Emerging Research Topics & Areas
- 1996-2003: ~ 100 held in collaboration with ICs & others
- 2004 -2005: 31 held to date; 2 pending
- 2006 -2007: 1 pending; additional suggestions requested



From Concept to Research: Chromium

Conference (1999:ODS)



Evidence-based Review
(2000:ODS)



Initiative (2001:NIDDK, NCCAM,
ODS)



Funding (2001-2004:NIDDK,
NCCAM, ODS)

- Chromium and Insulin Action
- Chromium Enhancement of Insulin Signaling
- Chromium Effects in Impaired Glucose Tolerance
- Chromium Picolinate in the Metabolic Syndrome
- Elucidating the Biochemistry of Chromium III
- Novel Method for Chromium Analysis in Biological Fluids
- Adjuvant Therapy for Vascular Inflammation in Diabetes



NEXT STEPS

- **Comment Period Open Until June 30th**
- **Summary of Meeting & Comments Will Be Posted on ODS Web site in July**
- **Decisions on Possible Modification of Emphasis of ODS Programs & Activities**





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