

OHSU Research

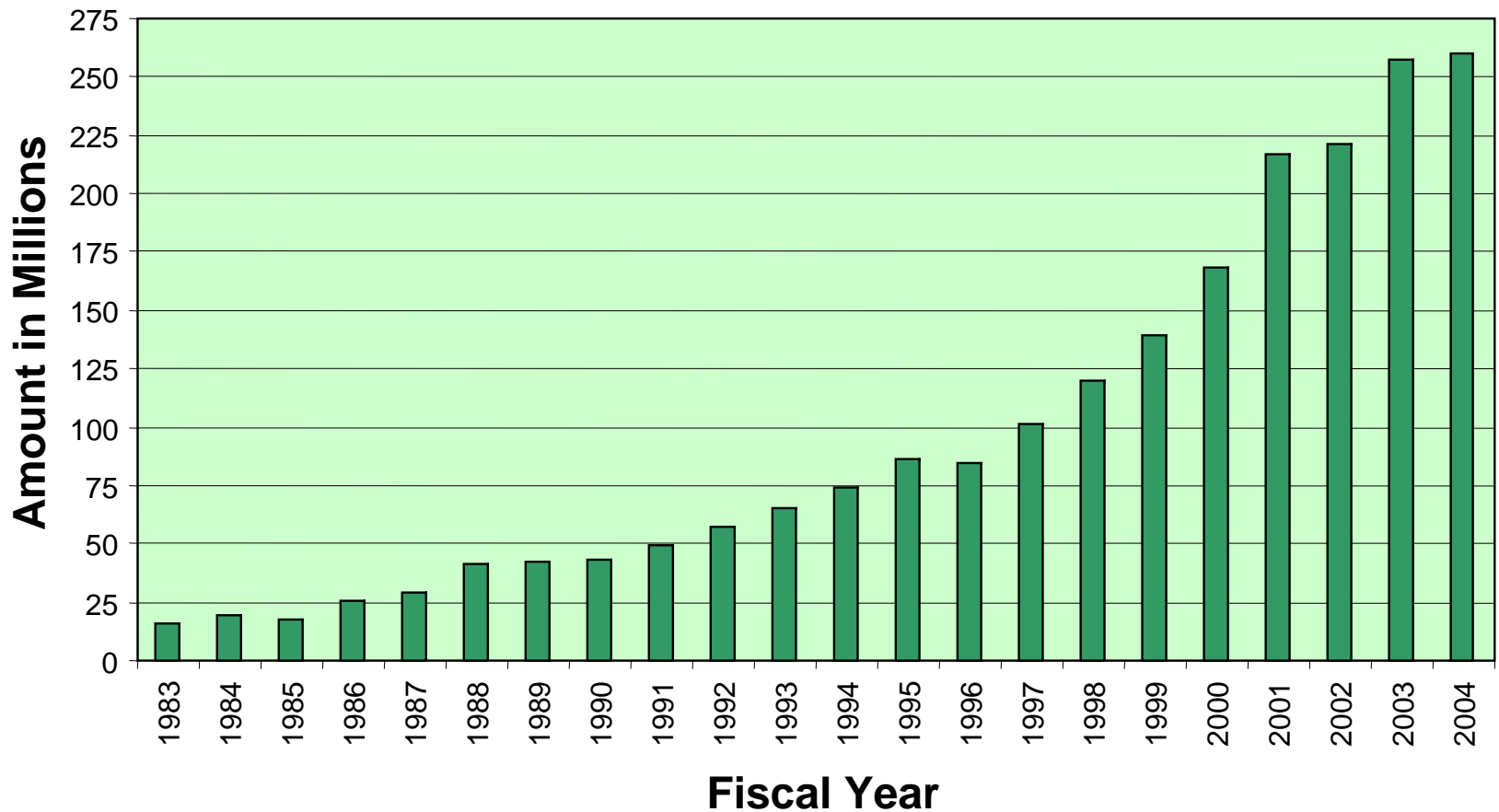
From Bench to Commercialization

Daniel M. Dorsa, PhD

Vice President for Research
Oregon Health & Science University

Research Awards

Total Awards
Fiscal Year 1983 - 2004



Research Strengths at OHSU

- Cancer
- Neurosciences
- Microbiology, Virology and Immunology
- Hearing, Vision and Speech
- Physiology (Endocrine, Cardiovascular)
- Aging
- Environmental Toxicology and Systems
- Women's Health

New Programs and Centers

- **Chemical Biology**
- **Developmental Therapeutics Cell Signaling Center**
- **Papé Pediatric Research Center**
- **Biomedical Engineering/OGI Re-Org**
- **Cellular and Molecular Pulmonary Medicine**
- **Center for the Study of Weight Regulation and Associated Disorders**
- **Oregon Stem Cell Center**

Research Infrastructure

- **Advanced Imaging Research Center**
- **Oregon Stem Cell Center (Flow Cytometry, Stem Cell Antibody Generation)**
- **Center for Bioinformatics and Computational Biology in Medicine**
- **Proteomics Shared Resource**
- **Pharmacokinetics Core**
- **High Performance Computing**
- **Gene MicroArray Shared Resource**
- **www.ohsu.edu/research/rda/funding/researchResources.shtml**

Clinical Research Program

- Core resources to facilitate human investigation
 - Clinical Trials Office
 - Investigational Pharmacy
 - PK/PD Core Lab
 - In development
 - Tissue banking resources
 - “Hospital as Laboratory”
- Assist in the development of clinical investigators
- <http://www.ohsu.edu/research/crp/>

Technology and Research Collaborations Impacts

	As of 1989	As of 2004
Annual Research Awards	\$41 m/year	\$260+m/year
Cumulative Invention Disclosures	64	747
Cumulative Patents Issued	11	302
Cumulative Licenses	8	239
Cumulative Licensing Income	\$806,899	\$11,630,754
Total Spin off Companies	6	51

2004 Tech Commercialization

Research (\$260 Million)



Disclosures (105)



Patents Issued (8)

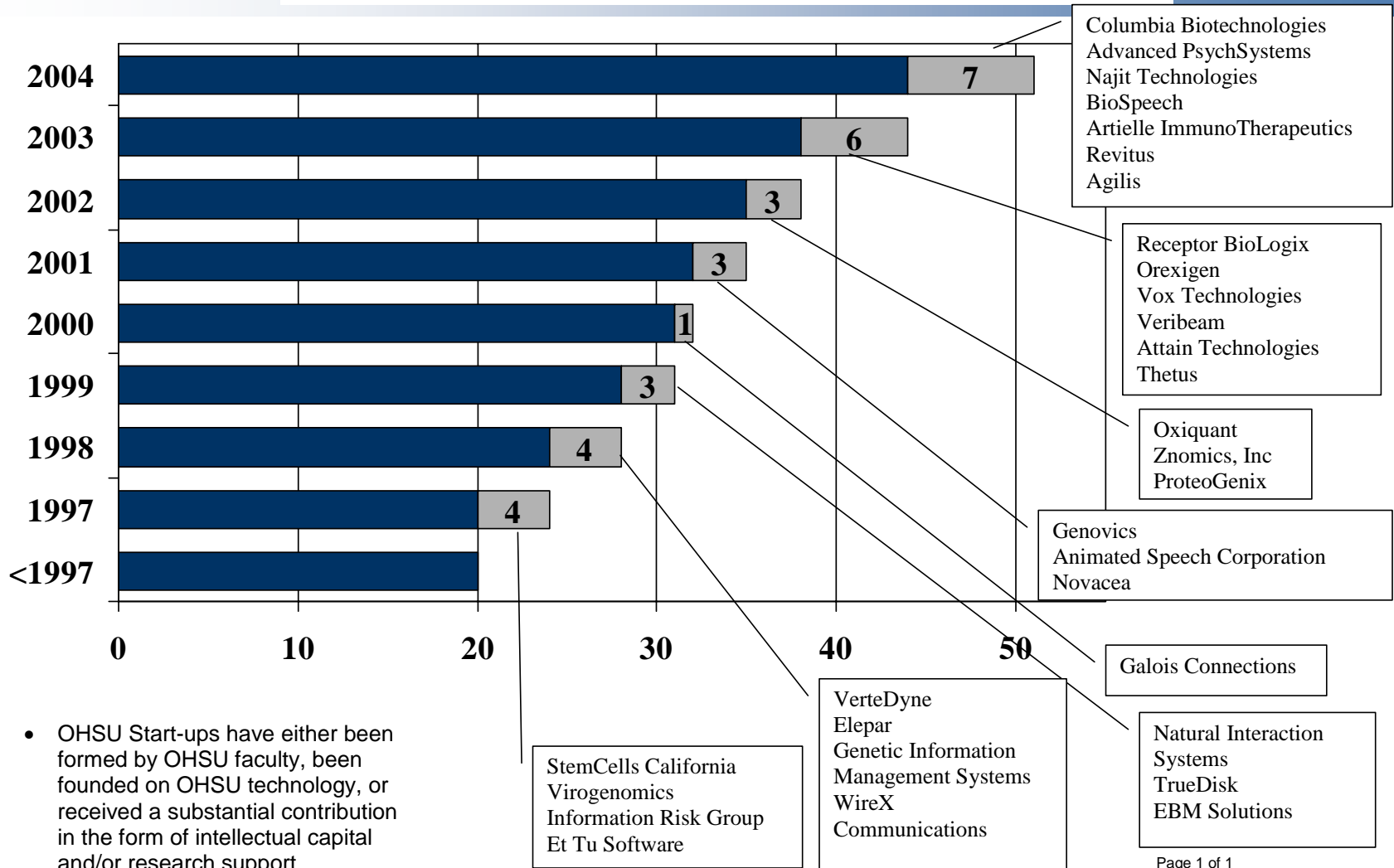


Licenses (43)



New Ventures (7)

OHSU Start-Up Companies



- OHSU Start-ups have either been formed by OHSU faculty, been founded on OHSU technology, or received a substantial contribution in the form of intellectual capital and/or research support.
- Oregon-based: 38 of the 51 companies (75%)

Company	What does it do?	Faculty Involved
<i>Advanced PsychSystems</i>	A behavioral health care software company specializing in automating the collection of intake data from patients with mental health or substance abuse problems. Advanced PsychSystems' products enable mental health or substance abuse clients to provide rou	Bentson McFarland
<i>Agilis Medical Inc.</i>	Develops and commercializes stroke rehabilitation technology, which will be directly applicable to both sub-acute and chronic stroke victims and has great promise for other neuromuscular pathologies, including sports or occupational injury, muscle tremor,	Paul Cordo
<i>Artielle ImmunoTherapeutics, Inc.</i>	An autoimmune therapeutics company spun off from another OHSU startup, Virogenomics. Artielle has developed a lead compound for the treatment of multiple sclerosis called RTL 1000 that has received Orphan Drug status from the U.S. Food and Drug Administra	Arthur Vandembark; Gregory Burrows; Halina Offner
<i>BioSpeech</i>	Uses cutting-edge speech and language technologies to develop products that help patients with a broad range of communication and neurodevelopmental disorders.	Jan van Santen
<i>Columbia Biotechnologies Corp.</i>	Develops new pharmaceutical and cosmeceutical therapies for the skin care market. Their initial products will focus on treatments for psoriasis.	Paul Cook
<i>Najit Technologies</i>	Develops accurate and rapid diagnostic tests for bioterrorism agents such as smallpox and monkeypox. The company also is developing antibody-based therapeutics for several emerging infectious diseases as well as for treatment of specific types of cancer.	Mark Slifka
<i>Revitus</i>	A drug development company with two pharmaceutical product candidates in its pipeline. Its products are designed to produce safe and specific pharmacological treatment for prevention of thrombotic vascular disorders, including heart attack and stroke.	Stephen Hanson; Andras Gruber

The Process and Challenge

