

BIOTECHNOLOGY: The Global View

**Center for Biotechnology
Stony Brook University
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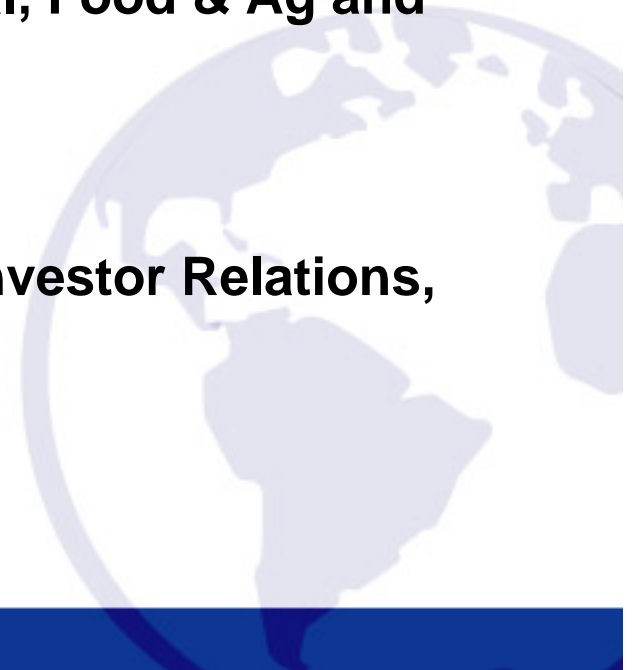
**Sara Jane Demy
Vice President**

**Business Development & Investor Relations
BIOTECHNOLOGY INDUSTRY ORGANIZATION (*BIO*)**



About BIO

- **World's largest biotechnology association**
- **We have a broad perspective**
 - Top 10 biotech and pharma
 - 88% of members are emerging companies
- **Focus**
 - Health care, Industrial & Environmental, Food & Ag and Emerging Companies
- **Major services:**
 - Advocacy, Business Development & Investor Relations, Communications



About the Industry We Represent

- **Biotechnology is well established**
- **Financials are about as strong as the science**
 - \$20 billion in new investment in 2005.
 - U.S. market cap now around \$400 billion
- **Industry has impressive growth**
 - Global revenues \$63 billion ('05)
 - US revenues \$47.8 billion ('05)
 - Market cap is \$410 billion ('05)
- **Industry is global**



US Biotech Industry

- **75% of global biotech revenues and R&D investment.**
- **Head start in the 1970s**
- **NIH budget doubled from 1999-2003**
- **East and West Coast clusters**
- **Biotech financial community**
- **State based biotech programs**



European Biotech Industry

- Revenue is up 17% in 2005 vs 2004
- R&D is up 22% in 2005
- 200 more biotech companies than the US with one quarter as much R&D spending
- 240+ drug/vaccine products in Phase II/Phase III testing



Asia/Asia-Pacific Biotech Industry

- Revenues up 46% in 2005 versus 2004
- R&D spending is up 23%
- Biotech is a high priority sector
- Regulatory & IP reforms proceeding
- Financing a key challenge



Key Industry Challenges

1. Health Care:

- Translating research into products efficiently
- Communicating the value of biotech drugs

2. Food and Ag:

- Science based regulatory policies essential

3. Industrial & Environmental Needs

- Need continued support to insure that industrial and environmental technologies achieve potential



Challenges = Opportunities

- **We need the best and brightest minds**
- **The opportunities are abundant**
- **The opportunities span the economy**



Closing Thoughts

“I genuinely believe that we are living through the greatest intellectual moment in history — bar none.”

— Matt Ridley, author of *Genome*



Bio[®]

BIOTECHNOLOGY
INDUSTRY ORGANIZATION