

Bio budget priorities 2010

- Changing dynamics of biosphere
- Energy systems
- Enhance education
- Broaden participation
- Climate change research

Biological Sciences Funding
(Dollars in Millions)

| | FY 2008 Actual | FY 2009 Current Plan | FY 2009 ARRA Estimate | FY 2010 Request | Change Over FY 2009 Plan Amount | Percent |
|----------------------------------------|-------------------|----------------------------|-----------------------------|--------------------|---------------------------------------|--------------|
| Molecular and Cellular Biosciences | \$112.28 | \$121.26 | \$60.00 | \$128.83 | 7.57 | 6.2% |
| Integrative Organismal Systems | 200.04 | 211.62 | 60.00 | 221.84 | 10.22 | 4.8% |
| Environmental Biology | 110.71 | 120.38 | 70.00 | 133.92 | 13.54 | 11.2% |
| Biological Infrastructure ¹ | 109.86 | 116.80 | 20.00 | 130.14 | 13.34 | 11.4% |
| Emerging Frontiers ² | 82.73 | 85.75 | 50.00 | 118.27 | 32.52 | 37.9% |
| Total, BIO | \$615.62 | \$655.81 | \$260.00 | \$733.00 | \$77.19 | 11.8% |
| Major Components: | | | | | | |
| Research and Education Grants | 491.78 | 523.99 | 245.00 | 590.11 | 66.12 | 12.6% |
| Instrumentation/Research Resources | 99.80 | 104.00 | 15.00 | 110.00 | 6.00 | 5.8% |
| Centers Programs | 24.04 | 27.82 | - | 32.89 | 5.07 | 18.2% |

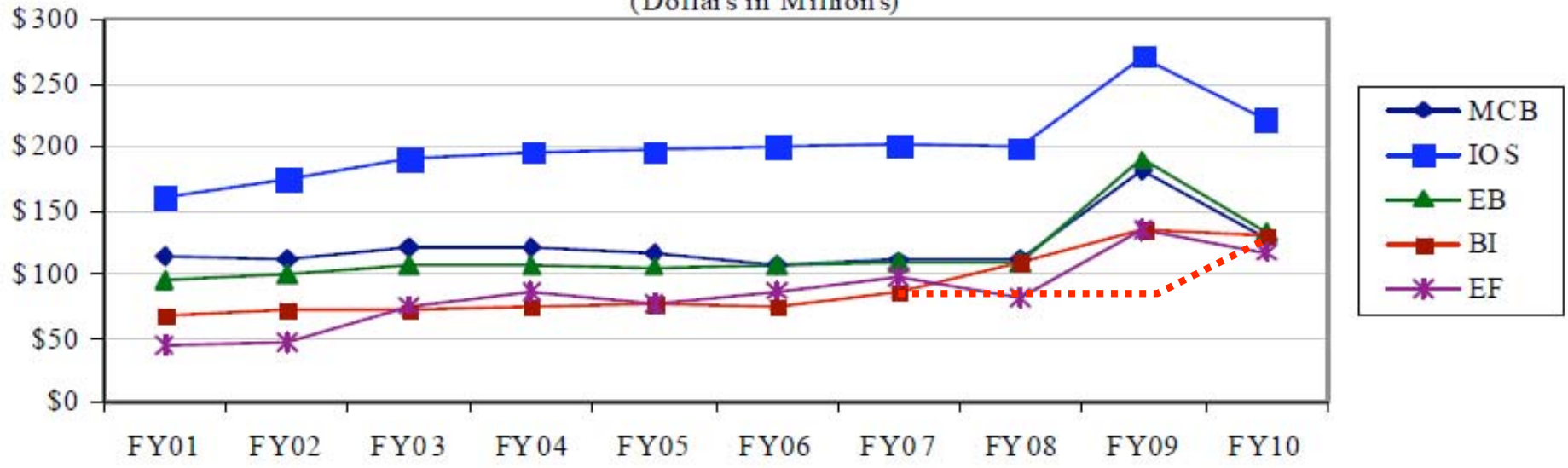
Totals may not add due to rounding.

^{1/} Funding for the Science of Learning Center (SLC) within the Division for Biological Infrastructure is included for all years for comparability. SLC will be cofunded with the Directorate for Social, Behavioral and Economic Sciences beginning in FY 2010.

^{2/} In FY 2010, all centers are shifted from Emerging Frontiers to Biological Infrastructure. Funding is included in Biological Infrastructure for all years for comparability.

BIO Subactivity Funding

(Dollars in Millions)



ARRA Funds

- MRI
- ARI
- Regular programmatic activities

Education Activities

- Vision and Change meeting as result of conversations
- RCN-UBE (including incubation awards)
- Further cooperation with DUE

What is BREAD?

- A new NSF program funded jointly by NSF and the Bill & Melinda Gates Foundation
 - \$48 million over 5 years with the potential to be extended
 - Brings together the BMGF track record in agricultural development and NSF's peer-reviewed marketplace for new ideas
 - Allows support of international partners



BILL & MELINDA
GATES *foundation*



Scope of BREAD

Novel, imaginative and creative ideas from scientists in all fields of science to generate sustainable, science-based solutions to problems of smallholder agriculture in developing countries



Scope of BREAD

Improvement of existing crops,
development of new crops, increasing
crop productivity and development of
efficient production practices

What BREAD is **NOT**

- A top-down directed research program
- Support for basic plant research without a developing country focus
- Support for downstream research
- Support for translation to the field
- Direct funding for international projects