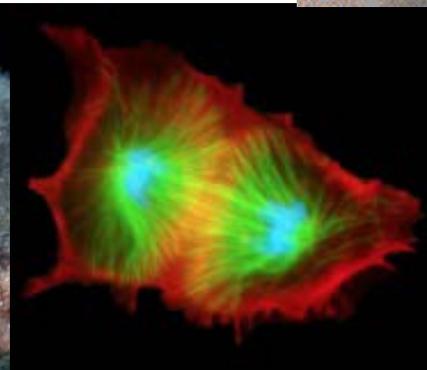
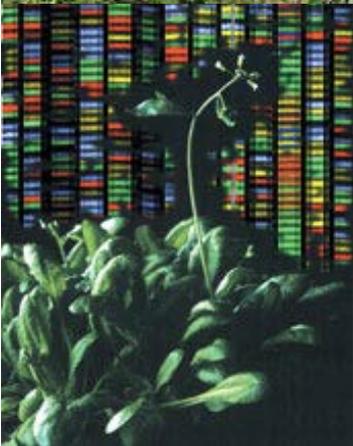


NSF grants Workshop

Directorate of Biological Sciences

Susannah Gal, PhD

March 11 & 12, 2013
Arlington, VA



Directorate of Biological Sciences

- Promoting and advancing scientific progress in biology
- 4 Divisions representing the breadth of work in biology





John Wingfield
Assistant Director

Directorate of Biological Sciences (BIO)

Emerging Frontiers (EF)

Division of Biological Infrastructure (DBI)

Human Resources

Research Resources

Division of Environmental Biology (DEB)

Population and Community Ecology

Ecosystem Science

Evolutionary Processes

Systematic Biology & Biodiversity Inventories

Division of Integrative Organismal Systems (IOS)

Behavioral Systems

Developmental Systems

Neural Systems

Physiological & Structural Systems

Plant Genome Research Program

Division of Molecular and Cellular Biosciences (MCB)

Biomolecular Dynamics, Structure and Function

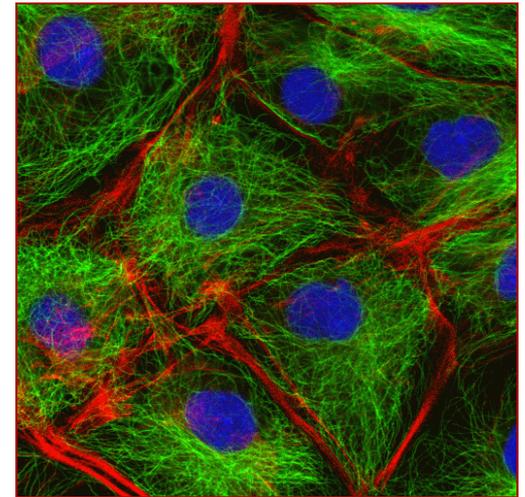
Cellular Processes

Genetic Mechanisms

Networks and Regulation

Molecular and Cellular Biosciences (MCB)

- Research aimed at understanding life processes at the molecular, subcellular and cellular levels
 - Molecular Biophysics
 - Cellular Dynamics and Function
 - Genetic Mechanisms
 - Systems and Synthetic Biology



Integrative Organismal Systems (IOS)

- Research aimed at integrative understanding of structure and function of an organism -- plant, animal, microbe
 - Behavioral Systems
 - Developmental Systems
 - Neural Systems
 - Physiological and Structural Systems
 - Plant Genome Research Program



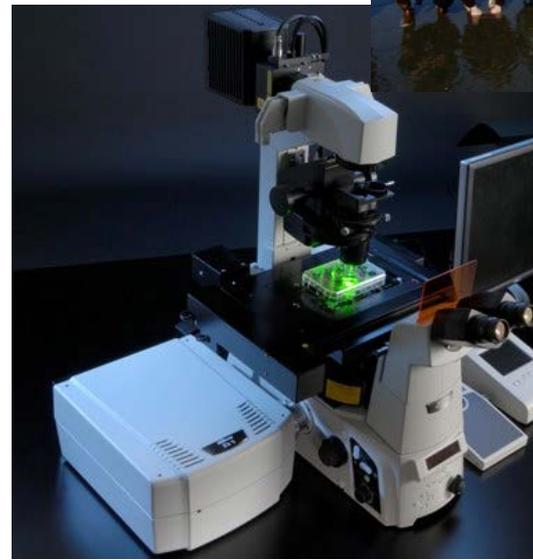
Environmental Biology (DEB)

- Research on populations, species, communities, and ecosystems, including evolutionary and ecological patterns and processes at all spatial and temporal scales
 - Ecosystem science
 - Evolutionary Processes
 - Population and Community Ecology
 - Systematics and Biodiversity Science



Biological Infrastructure (DBI)

- Resources needed to empower biological discovery
- Research Resources
 - Biological Informatics
 - Biological Research Collections
 - Biological Field Stations and Marine Labs
 - Instrumentation
 - Living Stocks
- Human Resources
 - Undergraduate Mentoring
 - Research Experiences for Undergraduates
 - Postdoctoral Research Fellowships



Finding Funding Opportunities

- www.nsf.gov (www.nsf.gov/dir/index.jsp?org=BIO)
- NSF Updates

HOME FUNDING AWARDS DISCOVERIES NEWS PUBLICATIONS STATISTICS ABOUT NSF FASTLANE

 National Science Foundation
Directorate for Biological Sciences (BIO)

QUICK LINKS

SEARCH

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Promoting and advancing scientific progress in biology

BIO Organizations
Biological Infrastructure (DBI)
Environmental Biology (DEB)
Emerging Frontiers (EF)
Integrative Organismal Systems (IOS)
Molecular and Cellular Biosciences (MCB)

SPECIAL ANNOUNCEMENTS
If you're a new visitor to the Directorate for Biological Sciences website or just want a quick visual and textual summary of our areas of support, please visit the "About BIO" web page where we have added a new [interactive organization chart](#).
[BIO Program Director and Reviewer Opportunities](#)
See "Additional BIO Resources" on tool bar on the right for other items of interest.

Get BIO Updates by Email

Featured Programs
Innovation Corps Teams Program
Plant Genome Research Program
Research Coordination Networks

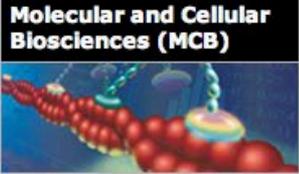
Additional BIO Resources

Recently Announced Funding Opportunities [See All](#)

Now on Twitter! http://twitter.com/NSF_BIO



Solicitations



Molecular and Cellular Biosciences (MCB)

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[Proposals and Awards](#)

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Division of Molecular and Cellular Biosciences: Investigator-initiated research projects (MCB)

NOTE:

New A link to the frequently asked questions, can be found at http://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf13012

CONTACTS

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PROGRAM GUIDELINES

Solicitation [13-510](#)

Important Notice to Proposers

A revised version of the NSF Proposal & Award Policies & Procedures Guide (PAPPG), NSF 13-1, was issued on October 4, 2012 and is effective for proposals submitted, or due, on or after January 14, 2013. Please be advised that, depending on the specified due date, the guidelines contained in NSF 13-1 may apply to proposals submitted in response to this funding opportunity.

Please be aware that significant changes have been made to the PAPPG to implement revised merit review criteria based on the National Science Board (NSB) report, [National Science Foundation's Merit Review Criteria: Review and Revisions](#). While the two merit review criteria remain unchanged (Intellectual Merit and Broader Impacts), guidance has been provided to clarify and improve the function of the criteria. Changes will affect the project summary and project description sections of proposals. Annual and final reports also will be affected.

A by-chapter summary of this and other significant changes is provided at the beginning of both the [Grant Proposal Guide](#) and the [Award & Administration Guide](#).

DUE DATES

Full Proposal Deadline Date: November 15, 2013
All research proposals, including RUI and RCN proposals, will be accepted on or before these deadlines
November 15, Annually Thereafter



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NSF Organization

- OFFICE OF THE DIRECTOR(50)
- Directorate for Mathematical & Physical Sciences (42)
- Directorate for Social, Behavioral & Economic Sciences (2)
- Directorate for Computer & Information Science & Engineering (6)
- Directorate for Geosciences(10)

Function and Organization of the ClpPR Complex in Plastids of Arabidopsis; A Central Protease Essential for Embryogenesis and Seedling Development
Award Number:0718897; Principal Investigator:Klaas vanWijk; Co-Principal Investigator:Giulia Friso; Organization:Cornell Univ - State: AWDS MADE PRIOR MAY 2010;NSF Organization:MCB Award Date:10/01/2007; Award Amount:\$550,000.00; Relevance:71.6;

Selection and Delivery of Substrates to the Essential Clp Protease Complex in Plastids of Arabidopsis Thaliana
Award Number:1021963; Principal Investigator:Klaas vanWijk; Co-Principal Investigator;; Organization:Cornell University;NSF Organization:MCB Award Date:10/01/2010; Award Amount:\$675,000.00; Relevance:71.58;

Career: The Role of Protease Activities in Arabidopsis thaliana Plants
Award Number:9506195; Principal Investigator:Susannah Gal; Co-Principal Investigator;; Organization:SUNY at Binghamton;NSF Organization:IOS Award Date:07/01/1995; Award Amount:\$449,770.00; Relevance:71.27;

Tracheary Element Differentiation
Award Number:9807801; Principal Investigator:Alan Jones; Co-Principal Investigator;; Organization:University of North Carolina at Chapel Hill;NSF Organization:IOS Award Date:10/01/1998; Award Amount:\$204,912.00; Relevance:70.61;

Functional Characterization of an Arabidopsis Aspartic Protease That Regulates Cell Survival and Cell Death
Award Number:0450168; Principal Investigator:Yiji Xia; Co-Principal Investigator;; Organization:Donald Danforth Plant Science Center;NSF Organization:IOS Award Date:01/15/2005; Award Amount:\$375,000.00; Relevance:70.51;

Arabidopsis as a New Experimental Platform to Investigate the Function of the Nuclear Pore Protein Tpr in SUMOylation and mRNA export.
Award Number:0641271; Principal Investigator:Iris Meier; Co-Principal Investigator;; Organization:Ohio State University Research Foundation -DO NOT USE;NSF Organization:MCB Award Date:04/01/2007; Award Amount:\$552,155.00; Relevance:69.44;

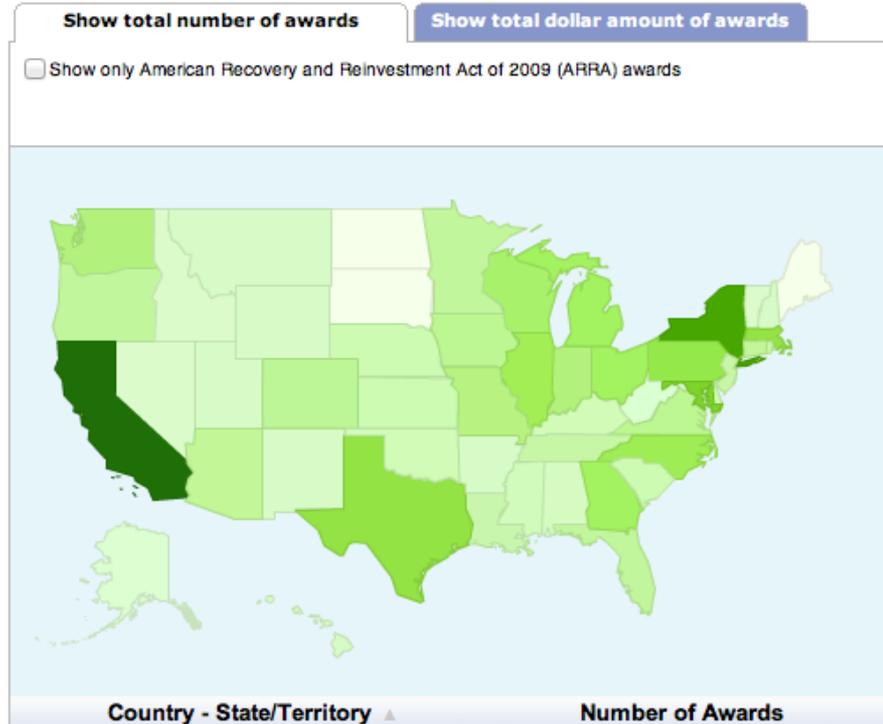
Search awards

Molecular and Cellular Biosciences (MCB) Active Awards

This page displays active awards for MCB graphically. You can also [view lists of awards made by MCB](#) or [view an HTML only version of this page](#).

Click on a state in the map or a name in the table below to view active awards in that state, territory, or country. Note: Territories and countries only appear in the table.

All Awards



Molecular and Cellular Biosciences (MCB) Active Awards

[All Awards](#) > [Virginia](#)

Virginia

Click on the name of an institution in the table below to view a list of awards for that institution.

Institution ▲	Number of Awards
College of William and Mary	3
James Madison University	1
Randolph-Macon College	1
University of Richmond	1
University of Virginia Main Campus	2
Virginia Commonwealth University	1
Virginia Polytechnic Institute and State University	13



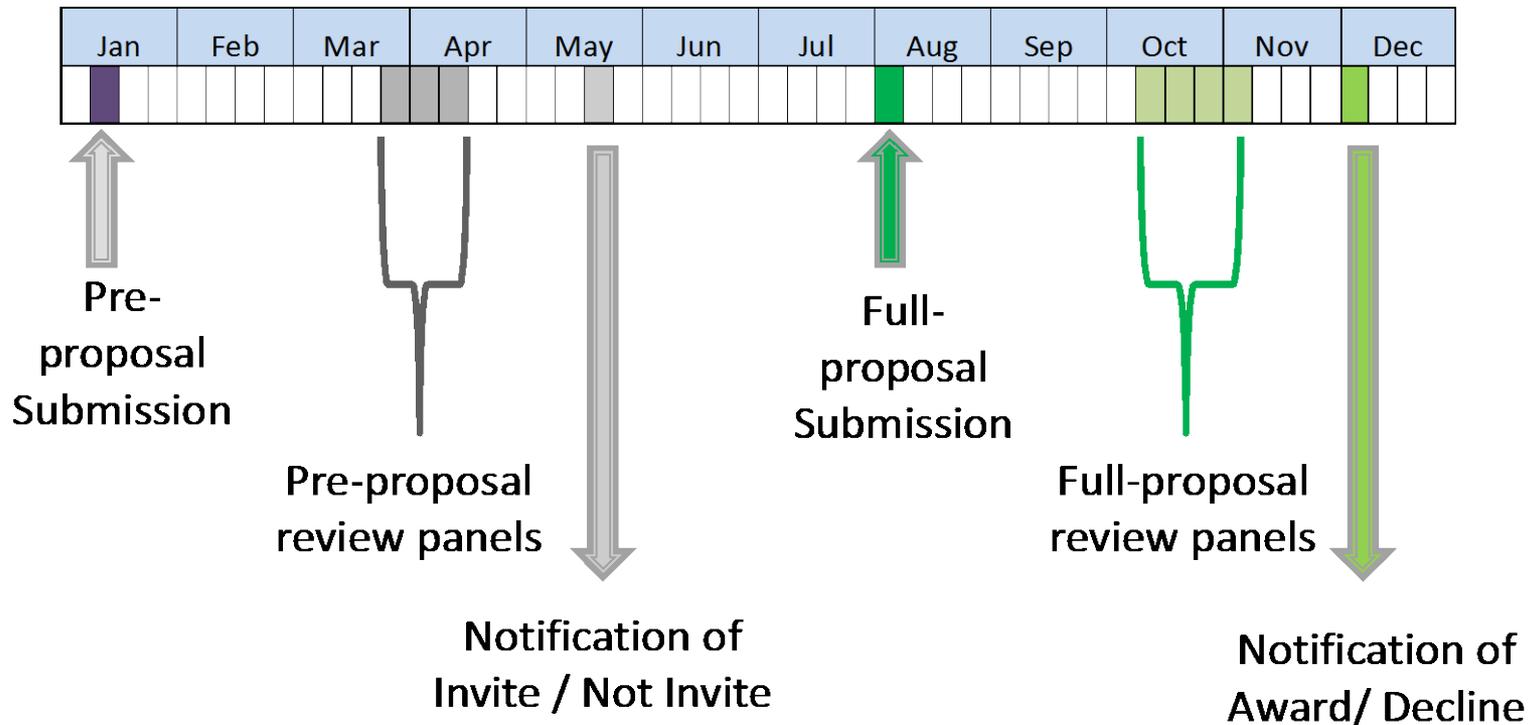
Timing of the Proposal Submissions

- Preproposals required in DEB & IOS

Write full proposal



Next deadline- January 2014



Plant Genome Research Program-
separate deadline in March 2014



Timing of the Proposal Submissions

- MCB- solicitation 13-510
 - Next deadline November 15, 2013
- DBI- multiple programs and deadlines
 - See http://www.nsf.gov/funding/pgm_list.jsp?org=DBI
- Also CAREER awards for all Divisions of Biology- July 22, 2013



Steps to a Successful Proposal

- Discuss your idea with your program director
 - Look at program areas for best fit
- Review submission guidelines
 - Grant Proposal Guide
 - Program Solicitations
- Cover all the bases
 - Intellectual Merit and Broader Impacts
 - Postdoctoral Mentoring Plan
 - Data Management Plan



Opportunities for You to Get Involved in Review

- Become an *ad hoc* reviewer
- Become a panelist
- Become a rotating program director

www.nsf.gov/about/career_opps/rotators/



Summary Points

- New Opportunities for funding- nsf.gov
- Resources
 - Program solicitations/ Dear Colleague Letters
 - Proposal & Award Policies & Procedures Guide
 - Past Awards
 - Program Directors

Questions? Susannah Gal
sgal@nsf.gov (703) 292-4415

