

Institutional Development Grant (IDG)

IDG Program Guidelines & Instructions

Full Proposal Deadline

Proposals must be submitted via the North Carolina Biotechnology Center online application by:

**NOON, Wednesday,
September 1, 2010**

- ⊗ *Proposals sent by fax, e-mail or hard copy will not be accepted.*

Program Requirements

Purpose

To provide research equipment or core facilities that will serve at least **THREE** investigators **EXCEPT** for investigators located at Duke, North Carolina State University and University of North Carolina at Chapel Hill. Requests from these campuses must serve at least **SIX** investigators, with exceptions for some satellite campuses. Contact Program Staff for details.

Note: If your proposal has any of the following features, it will be more competitive:

- Shows that the request is occurring within the context of an institutional initiative.
- Involves new ideas that may lead to biotechnology breakthroughs.
- Involves collaboration between academic and industrial scientists.
- Strengthens regional and statewide biotechnology capabilities.

Funding and Matching Requirements

- Up to \$200,000 maximum.
- 25% minimum capital costs matching requirement from the institution.
- All award funds are disbursed directly to the university or nonprofit research institute of the principal investigator.

- ⊗ *Biotechnology Center IDG grants do not support indirect costs, salaries, or service contracts.*

Who May Apply

A principal investigator from a North Carolina academic or nonprofit research institute. (Other scientists in the research process may be from industry.)

- For grants awarded to academic institutions, the principal investigator must hold a full-time faculty appointment.
- For grants awarded to nonprofit institutions, the principal investigator must hold a full-time permanent appointment.
- ⊗ *An institution may not submit multiple proposals for similar equipment during the same funding year.*
- ⊗ *An institution that receives IDG funds to purchase a piece of equipment costing \$200,000 or more is ineligible for five years to receive IDG funds to purchase similar equipment.*
- ⊗ *An institution that receives IDG funds to purchase a piece of equipment costing less than \$200,000 is ineligible for three years to receive IDG funds to purchase similar equipment.*
- ⊗ *All applicants must list their facility on the Center's core facilities website http://www.ncbiotech.org/services_and_programs/grants_and_loans/core_lab/index.html*

Guidelines for Core Facilities and Equipment

- Equipment or core facilities must be a shared resource for at least three to six researchers. Please see the above Purpose section to determine the number of researchers needed to fulfill requirements. Examples of recently funded core facilities: tissue mechanics

lab, imaging core facility, clinical genotyping core laboratory, peptide synthesis core.

- Equipment must be a high-cost item or items (\$20,000 minimum per item). Examples: ultra-high resolution mass spectrometer, differential scanning calorimeter; imaging research microscope and digital analysis system, micro array fabrication platform.
- ⊗ *Items cannot include low-cost items such as minor equipment and supplies to outfit a lab. Specific supplies and equipment for requested instrumentation may be allowable.*

Preliminary Consultation

Although not required, a preliminary consultation may be helpful to the applicant. To find out if a project that you plan to submit qualifies for this grant — or to obtain additional information— contact the Core Programs Director at 919-549-8842 or send an e-mail to virginia_deluca@ncbiotech.org. Please contact us **at least two weeks prior** to the deadline if you would like to request a consultation.

Review Process

The review process has three parts:

- Examination by Biotechnology Center staff to make sure the proposed project relates to biotechnology and meets basic requirements for the grant.
- Peer review by out-of-state reviewers.
- Final review and award by the designated committee of the Biotechnology Center's Board of Directors.

Evaluation Criteria

Extent the facility/equipment would:

- Impact the development of biotechnology at this institution and in the field.
- Build upon existing institutional strengths in biotechnology.
- Stimulate broad-based development of innovative biotechnology research at the institution.

- Attract outside recognition for the institution's activities in biotechnology.
- Increase competitiveness for federal funding.
- Be immediately useful for a broad range of biotechnology research programs.
- Have potential for commercial or economic return to North Carolina.
- Innovativeness of project objectives.
- Logic and technical feasibility of project plan.
- Thorough knowledge of the current state of the field.
- Reasonable probability of success taking into account staff qualifications, management plan, availability of space and equipment, projected timetable, etc.
- Justified need for Biotechnology Center support.
- Budget sufficient but not inflated.

Post-award Reporting

Brief post-award reports are required. More information on reporting requirements will be provided on request or if a grant is awarded.

Information Release

It is the policy of the North Carolina Biotechnology Center to announce awards through press releases and other publications. These communications typically include the Project Title and Public Information Summary that are provided by the applicant on the proposal Cover Sheet. No information is released on declined proposals.

Confidentiality

The Biotechnology Center will endeavor to maintain the confidentiality of all applicants' information. However, the applicant is responsible for not disclosing any information that should not be reviewed outside of the Biotechnology Center.

Application Instructions

Please use the checklist provided to make sure **ALL** components of the proposal application are included. The checklist should be included as part of your proposal submission.

Step 1: Read the Guidelines & Instructions

Thoroughly read these IDG Program Guidelines & Instructions prior to submitting an application. If you have any questions about the program, please contact Ginny DeLuca, Core Programs Director at 919-549-8842 or by email at virginia_deluca@ncbiotech.org.

Step 2: Prepare the Proposal

Prepare the Proposal as directed below (maximum size is 1MB):

- ⊗ *Applications that do not follow all these requirements will be rejected without review.*

General Proposal Formatting Guidelines

- Use standard font (such as Arial or Times New Roman) no smaller than 12 point.
- Page set-up should be for single-spacing on 8½" x 11" paper.
- Number each page.
- Margins should be ¾" to 1".
- Each section should be titled using the header sections listed below and should match the Table of Contents.
- Do **not** use logos or letterhead on **any** pages of the Proposal.

Proposal Requirements

The Proposal must include the following sections:

- **Table of Contents**
Include title, PI name, institution and page numbers.
- **Abstract**
Include a one- to two page description of the project.

- **Significance**
Describe the practical merits of the proposed research and the impact of the research on the institution's efforts to advance biotechnology and the potential for commercialization.
- **Objectives**
Describe what will be accomplished with the funding.
- **Research Plan** (maximum 15 pages)
Use the guidelines that follow to develop your research plan for either core facilities or equipment.

Choose to follow the Research Plan for either A. Core Facilities or B. Equipment

A. Research Plan for Core Facilities (maximum 15 pages)

General Description of the Facility

- **Name and status of the facility**
Specify whether the requested equipment is for an expansion/upgrade to a current facility or whether it is for the development of a new facility. Provide a brief description of similar service facilities that are available at your own or nearby institutions. If no similar service facilities exist locally, note this point as well.
- **Location**
Provide the current/planned location of the facility (give building and room number).
- **Purpose**
Describe the major objectives of the facility.
- **Instrumentation**
List the equipment that is or will be available in the facility as well as the equipment to be acquired. Provide a description of the requested equipment and include the manufacturer and model. **Provide an equipment price quote with your Supporting Documentation file.**
- **Current capabilities**
Describe services that are or will be offered (experimental design, sample preparation, data acquisition, data analysis, animal model, etc.).

Justification

Discuss the types of biotechnology-based projects at the applicant's institution and/or at nearby institutions that the equipment will serve. Describe how the equipment/facility will advance biotechnology for this population.

- **Projected usage table**
Provide a table listing name, affiliation and department, and annual percent usage of each major user.
- **Major users**
For a **maximum of eight major users**, provide a one page or less research project summary for each user.
 - ❖ If you have more than eight major users, simply list the name, department, and a one-sentence description of research focus for each additional major user.
 - ❖ Describe other potential users at the applicant's institution or nearby institutions.
- **Equipment selection**
 - ❖ For the requested equipment, discuss its **advantages** over competing brands/models.
 - ❖ Address how the requested equipment will meet the specific research needs of the major users as well as its applicability to a broader research audience.

Administration and Operation

- **Administrative responsibility**
Discuss who will have ultimate authority to administer the facility and to make decisions for equipment acquisition, long-term maintenance, user fees, user priorities, etc. List the qualifications of this individual(s).
- **Technical responsibility**
Discuss who will direct the facility's technical operations (routine operations, equipment maintenance, troubleshooting, performance evaluations, etc.). List the qualifications of this individual(s).
- **User access**
Provide a plan for user access to the facility including any restrictions or limitations that will be put on facility use. For example, explain whether some users will receive priority over others and why. If users outside

of the applicant's institution are allowed access to the facility and/or its services, discuss how the facility will be advertised, and whether priorities on use will be set. Also discuss whether users will have direct access to any of the equipment housed in the facility.

- **User training**
State whether user training will be provided on the equipment and who will be administering the training, if applicable.

B. Research Plan for Equipment (maximum 15 pages)

General Description of the Equipment

- **Instrumentation**
Give a general description of the requested equipment, including the scope and capabilities of what it can be used for. Include the manufacturer and model. **Provide an equipment price quote with your Supporting Documentation file.**
- **Location**
Provide the location of where the equipment will be housed.
- **Purpose**
Describe the major objectives for use of the equipment, including whom the equipment will serve, and how the equipment will advance biotechnology for this population.
- **Current capabilities**
List any identical or similar instruments that are present at the applicant's institution or nearby institutions. State whether these instruments are available for shared use.

Justification

- **Projected usage table**
Provide a table listing name, affiliation and department, and annual percent usage of each major user.
- **Major users**
For a **maximum of eight major users**, provide a one page or less research project summary for each user.
 - ❖ If you have more than eight major users, simply list the name, department, and a one-sentence description of research focus for each additional major user.

- ❖ Describe other potential users at the applicant's institution or nearby institutions.
- **Equipment selection**
 - ❖ For the requested equipment, discuss its **advantages** over competing brands/models.
 - ❖ Address how the requested equipment will meet the specific research needs of the major users. State why this equipment is best suited for the needs of the research group(s) it will serve, and who in addition to the major and other users listed above might benefit from this equipment.

Administration and Operation

- **Administrative responsibility**
Discuss who will have ultimate authority for equipment operations, long-term maintenance, user scheduling, and user fees, etc. List the qualifications of this individual(s).
- **Technical responsibility**
Discuss who will have day-to-day responsibility for technical operations, including routine maintenance, troubleshooting, and performance evaluations, etc. List the qualifications of this individual(s).
- **User access**
Discuss whether you are going to limit use of the equipment in any way. If so, describe which users will receive priority over others and why. If users outside of the applicant's institution are allowed access to the equipment, discuss how advertisement will be done and how priorities on use will be set.
- **User training**
State whether user training on the equipment will be provided and who will be administering the training, if applicable.

The following information should be included for both Core Facility and Equipment Research Plans:

Budget Justification

- Explain each line item in the Budget (not just portion requested from the Biotechnology Center). **Each** piece of equipment listed in the budget must have a 25% capital cost match.

- Explain sources of matching funds.
- Include letters from sources of matching funds. (Letters from sources of matching funds are to be submitted as part of the Supporting Documentation PDF.)

Long-term Support

- Explain the sources of funds to cover supplies, maintenance service contracts, and repairs. Include a discussion of user fees, if applicable.
- Explain how the facility or equipment will be supported by future funding sources after the Center's award has expired.
- Include letters of commitment. (Letters of commitment for long-term support are to be submitted as part of the Supporting Documentation PDF.)

Project Timeline

Provide a timeline for ordering, installation, setup, training if required, and implementation and use.

Bibliography *(does not count towards page limit)*

Give full citation including title and complete author list.

Current and Pending Grants *(if applicable) (does not count towards page limit)*

For each current or pending grant, provide the following information:

- Funding agency.
- Project title.
- Award amount.
- Duration of award.

Biographical Sketches *(does not count towards page limit)*

For **up to eight** key scientific and administrative personnel, including major users. Include a biographical sketch with a list of no more than five (5) publications documenting each investigator's expertise in the proposed project. Limit each biographical sketch to no more than one (1) page following the **Biographical Sketch** format provided by the link on the website.

Include the biographical sketches at the end of your proposal for submission.

Convert your Proposal into a PDF document

Convert your electronic document directly into a PDF file. If you do not have the full version of Adobe Acrobat, the following websites offer free PDF conversion software:

- <http://convert.neevia.com> Document Converter eXPress (no downloads required; convert to PDF right on the web)
- <http://www.pdf995.com> Pdf995 (downloadable software)
- <http://sourceforge.net/projects/pdfcreator> PDFCreator (downloadable software)
- ⊗ *Do not print and scan the proposal to convert to PDF – this will cause the PDF to be significantly larger (more megabytes).*
- ⊗ *Applications that do not meet these format requirements will not be considered.*

Step 3: Complete the Budget

Prepare your Budget using the **IDG Budget Sheet** provided by the link on the website. http://www.ncbiotech.org/IDG/documents/idg_11_budget.xls

All funds requested on the Budget Sheet must be justified under the Budget Justification section (above) of your proposal. The Budget is provided in Excel format and may be submitted as an Excel file.

- ⊗ *The title of the project **must** be included in the "Project Title" box at the top of the Budget Sheet.*
- ⊗ *Failure to use the Budget Sheet provided will result in rejection of the proposal.*

Budget Guidelines

The applying institution must provide a **minimum 25% capital cost match** for the facility/equipment being requested.

In addition to equipment, allowable items as requested or matching also include:

- Renovation of lab space to support/accommodate the new facility/equipment.
- Hardware/software necessary to run the equipment.

Unallowable items as requested or matching include:

- Service contracts.
- Overhead/indirect costs.
- Salaries for technicians or other personnel.
- Equipment that has already been purchased by the institution (even if a purchase order has been issued and the equipment has not yet arrived).
- Renovations/construction that has already been initiated or completed.

Step 4: Gather Supporting Documentation

Combine the following Supporting Documents into a **single** PDF file. You can accomplish this by scanning them together all at once and then save as or convert to PDF (maximum size is 1MB).

- **Cover Sheet**

http://www.ncbiotech.org/IDG/documents/idg_11_coversheet.doc

NOTE: This Cover Sheet replaces the Institutional Letter of Support previously required. Other Letters of Support are still required. This sheet must be the first page of the Supporting Documentation PDF.

- **Letters of Support**

Include letters of support from:

- Sources of matching funds.
- Sources of long-term support.
- Co-PIs who are major users with projects written up **in the proposal**.

- **Equipment Price Quote**

Important note: Only **ONE** Supporting Documents file will be accepted. Applications that are submitted with more than one Supporting Documents file will be **rejected**.

Now that you have all the required attachments ready:

Step 5: Complete the Online Application Form

Open the Application Form

https://www.GrantRequest.com/SID_466?SA=SN A&FID=35006. Complete all pages of the form. You can stop and save at any time and return to finish later.

The online application form includes a field for the **Public Information Summary**. If your proposal is funded, this concise, easy-to-read summary may be used in Biotechnology Center press releases, annual reports, and other publications. This summary is not an abstract and should **not** include complex scientific terminology. This summary is intended for a lay audience, allowing the Biotechnology Center to share granting information with the general public and other interested parties. The maximum allowable length for this summary is **50 words**.

Step 6: Attach the Required Documents

- Follow the online instructions for attaching the Required Documents.
- The Proposal, Budget, and Supporting Documentation should each be attached as three separate files.

Important note: Only **ONE** of each of the above file types may be attached to the application for a **total of three attachments**. Proposals submitted with more than three attachments will be **rejected**. In addition, each attachment has a **maximum size limit of 1MB**. Proposals submitted with larger attachments will be **rejected**.

Step 7: Review and Submit

Carefully review your application package using the checklist provided on the website then submit your IDG application prior to the Grant Program Deadline.

Submission of your grant application indicates that:

1. You have read and understand the information and directions in this Application Package and agree to be bound by the conditions stated herein.

2. You release the North Carolina Biotechnology Center from any claim for damages caused by:
 - a. Disclosures required under the provisions of any North Carolina or United States law, statute, or regulation,
 - b. Disclosures made in connection with the North Carolina Biotechnology Center's funding review and approval process,
 - c. Disclosures required by rule or order of any court of competent jurisdiction, or
 - d. Any other non-negligent, inadvertent, unintentional, unknowing, or immaterial disclosure.
3. All research conducted during the proposed project is performed in accordance with established university policies and procedures, including—but not limited to—policies and procedures applicable to research involving human subjects, laboratory animals, or hazardous agents and materials.
4. If the project proposed involves vertebrate animals, the project complies with federal guidelines for vertebrate animal care and experimentation.

You will receive a confirmation email notifying you that the Biotechnology Center has received your application. Any Center request for additional proposal information must be addressed within 24 hours.

Science and Technology Development Program

North Carolina Biotechnology Center
15 T.W. Alexander Drive • P.O. Box 13547
Research Triangle Park, NC 27709-3547
919-541-9366 • fax 919-549-8658

See our grant application Web page at www.ncbiotech.org/grants



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Core Laboratory Research Facilities in North Carolina

[Add or Update Listing](#)

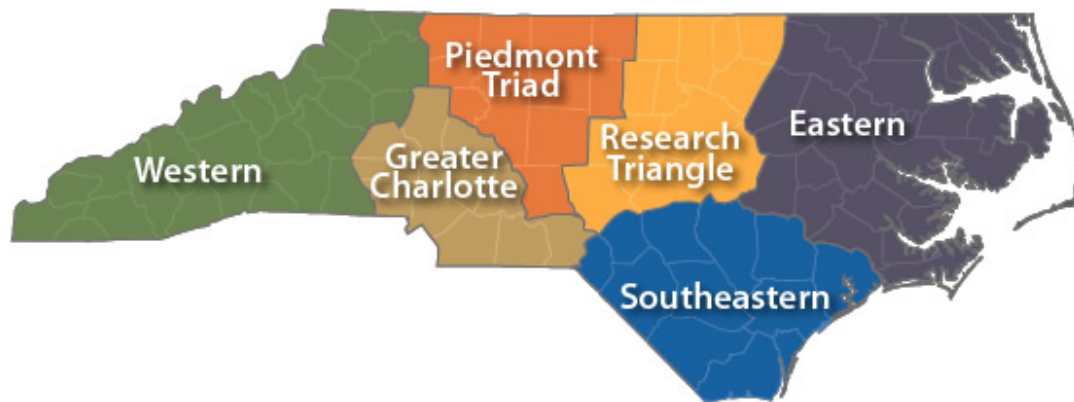
Welcome! This site provides basic links to core laboratory facilities in North Carolina that support research in the life sciences and other biotechnology-related fields of study. These core facilities are located at university, non-profit and commercial research institutions across the state.

All of the core facilities listed below have voluntarily submitted their information and have indicated that their services and/or equipment are open to researchers outside of their home institution. Not all institutions list available core laboratory facilities, however, many are in the process of organizing and compiling these resources. As this information becomes available, additional links will be added to this page.

The Biotechnology Center has funded many core facilities in the state. However, we do not intend to represent the facilities in any way other than to serve as an impartial portal to this information.

To submit or modify a core facility listing, use the link on the right side of this page. For questions regarding this website, contact Maria Riley (maria_riley@ncbiotech.org) at (919) 549-8849.

- View core facilities by region:
 - [Eastern](#)
 - [Greater Charlotte](#)
 - [Piedmont Triad](#)
 - [Research Triangle](#)
 - [Southeastern](#)
 - [Western](#)
- For detailed information, view the [core facilities list](#) (PDF)



EASTERN REGION

- **DUKE UNIVERSITY MARINE LABORATORY**
Marine Conservation Molecular Facility (Beaufort, NC)

The Marine Conservation Molecular Facility (MCMF) is a shared use molecular lab for genetic analysis of marine organisms. The MCMF offers 8 bench spaces, 12 thermal cyclers, 2 real-time thermal cyclers, a pipetting robot, and an ABI Sequencer.

Director/Contact: Tom Schultz, Ph.D.

Tom.Schultz@duke.edu or (252) 504-7641

<http://www.nicholas.duke.edu/marinelab/facilities/mcmf>

● EAST CAROLINA UNIVERSITY, BRODY SCHOOL OF MEDICINE

Laser Capture Microdissection Core Laboratory (Greenville, NC)

The Zeiss PALM Laser Capture unit is located at the Brody School of Medicine. ECU provides instrumentation, facilities for preparing and staining both frozen/paraffin sections, and limited assistance in obtaining samples for DNA or RNA.

Director: Barbara Muller-Borer, Ph.D.

Contact: Cindy Kukoly

kukolyc@ecu.edu or (252) 744-2962

<http://www.ecu.edu/cs-dhs/internalmed/lasercapture/>

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GREATER CHARLOTTE REGION

● CAROLINAS MEDICAL CENTER

Cannon Research Center Core Facilities (Charlotte, NC)

The Cannon Research Center has many core facilities including those for biostatistics, comparative medicine, confocal microscopy, electron microscopy, flow cytometry, histology, mass spectrometry and proteomics, molecular biology, and research machining.

Director: Herbert L. Bonkovsky, MD

Contact: Dhanonjoy C. Saha, DVM, Ph.D.

Dhanonjoy.Saha@carolinashealthcare.org or (704) 355-5383

<http://www.carolinasmedicalcenter.org/body.cfm?id=1541>

● NORTH CAROLINA RESEARCH CAMPUS

David H. Murdock Research Institute (Kannapolis, NC)

The world's most powerful technologies have been integrated into a cohesive and comprehensive research system with state-of-the-art capabilities in one central location. Services are provided in genomics, proteomics, metabolomics, microscopy, and NMR.

Director: Michael Luther, Ph.D., MBA

Contact: Sheetal Ghelani, Ph.D.

sghelani@dhmri.org or (704) 250-2648

<http://www.dhmri.org>

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PIEDMONT TRIAD REGION

● UNIVERSITY OF NORTH CAROLINA CENTER FOR DESIGN INNOVATION

Center for Design Innovation (Winston-Salem, NC)

***Partnerships are in formation and inquiries are encouraged.*

CDI's goal is to catalyze the growth of creative industries in the Piedmont Triad through design-focused activity based on advanced technologies. Services in rapid prototyping and design in various media are available.

Director/Contact: Carol Strohecker, Ph.D.

cs@centerfordesigninnovation.org or (336) 354-7358

<http://www.centerfordesigninnovation.org>

● WAKE FOREST UNIVERSITY

Wake Forest University Core Laboratory Facilities (Winston-Salem, NC)

WFU is home to many core research facilities which include microscopy, X-ray, NMR, and computer facilities; biomechanics, human performance, blood chemistry, physical function and behavioral physiology laboratories; and a Center for Nanotechnology.

<http://www.wfu.edu/academics/research/>

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RESEARCH TRIANGLE REGION

■ **ALMAC DIAGNOSTICS**

Almac Diagnostics Molecular Core Lab (Durham, NC)

Personalized medicine company offering the following genomics based services: Nucleic acid extraction, mRNA, microRNA and DNA expression profiling, Bioinformatics, cell line modeling, and biomarker discovery and validation.

Director: Kimberly Slent-Kesler, Ph.D.

Contact: Kevin Ellison

kevin.ellison@almacgroup.com or (919) 294-0234

<http://www.almacgroup.com>

■ **CAMPBELL UNIVERSITY**

Campbell University Pharmaceutical Sciences Institute (Buies Creek, NC)

Facility laboratories and Clinical Trial Manufacturing areas meet current Good Manufacturing Practices requirements. Our analytical, microbiology, and formulation development capabilities support sterile, oral, and topical product development.

Director/Contact: William C. Stagner, R.Ph., M.S., Ph.D

stagnerw@campbell.edu or (910) 893-1836

<http://campbellpharmacy.net/resources/CUPSI.html>

■ **DUKE UNIVERSITY**

Biomolecular Characterization Facility (Durham, NC)

User-operated Aviv 62DS CD Spectropolarimeter with automated titrator, thermoelectric temperature control, simultaneous fluorescence and CD detection. Staff-operated Beckman XL-A analytical ultracentrifuge for sedimentation equilibrium and velocity.

Director/Contact: Terrence G. Oas, Ph.D.

oas@duke.edu or (919) 684-4363

Duke RNAi Screening Facility (Durham, NC)

***Open to outside users collaborating with Duke investigators.*

The DRSF provides infrastructure and expertise for the implementation of RNAi-based technologies, both small and genome scale. We also provide custom high-throughput cell-based assay development.

Director: Mariano Garcia-Blanco, M.D., Ph.D.

Contact: James Pearson, Ph.D.

james.pearson@duke.edu or (919) 613-5132

<http://www.genome.duke.edu/cores/rnai/>

Shared Materials Instrumentation Facility (Durham, NC)

SMIF provides researchers with access to advanced characterization and clean room fabrication capabilities. SMIF is available to all Duke University researchers and to external users from other universities, government labs, and industry.

Director/Contact: Mark D. Walters, Ph.D.

mark.walters@duke.edu or (919) 660-5486

<http://smif.lab.duke.edu/>

■ **EXPRESSION ANALYSIS**

Expression Analysis (Durham, NC)

Providing whole genome to focused set gene expression/genotyping assays and sequencing services. Genomic services for clinical trials and research - solutions for whole blood specimens and FFPE tissues, also nucleic acid isolation and bioinformatics.

Director: Steve McPhail

Contact: Karen Michailo

kmichailo@expressionanalysis.com or (919) 287-4277

<http://www.expressionanalysis.com>

■ **GENTRIS CORPORATION**

Gentris Corporation (Morrisville, NC)

Gentris Corporation is a GLP facility providing genomic and biostorage services to pharmaceutical and biotechnical companies.

Director/Contact: Scott Clark, Ph.D.

clarks@gentris.com or (919) 653-5534

<http://www.gentris.com>

■ **KRYOSPHERE, INC. - RTP**

Kryosphere (Durham, NC)

The comprehensive solution to any researcher's sample management needs. We offer custom biorepository services; management of clinical trial samples; tracking; stability studies; cryopreservation training; and

transportation in a GMP, regulatory compliant environment.

Director: Douglas Baker

Contact: L. Eric Hallman, Ph.D.

ehallman@kryosphere.com or (919) 941-9999 x223

<http://www.kryosphere.com>

● NORTH CAROLINA STATE UNIVERSITY

Cellular and Molecular Imaging Facility (CMIF) (Raleigh, NC)

The CALS Cellular and Molecular Imaging Facility at North Carolina State University is located in the Department of Plant Biology (4115 Gardner Hall) and contains a number of state-of-the-art light microscopes, including a Zeiss LSM 710 confocal.

Director/Contact: Eva Johannes, Ph.D.

eva_johannes@ncsu.edu or (919) 515-3525

<http://www.ncsu.edu/project/cmif-micro/>

Genomic Sciences Laboratory (GSL) (Raleigh, NC)

The GSL provides NCSU and other scientific communities with high-throughput DNA sequencing and genotyping, functional genomic assays, protein identification and characterization as well as metabolomics, biochem. profiling and target compound analyses.

Director/Contact: Jennifer Schaff, Ph.D.

jeschaff@ncsu.edu or (919) 513-0738

<http://www.gsl.cals.ncsu.edu>

Golden LEAF Biomanufacturing Training and Education Center (BTEC) (Raleigh, NC)

BTEC houses 63,000 GSF of fermentation, cell culture, recovery, purification, and analytical lab space for training NCSU students and industry professionals in bioprocessing. BTEC also offers its capabilities for projects with industry and use by NCSU researchers.

Director: Ruben Carbonell, Ph.D.

Contact: Gary Gilleskie, Ph.D.

gary_gilleskie@ncsu.edu or (919) 515-0176

<http://www.btec.ncsu.edu>

Laboratory for Advanced Electron and Light Optical Methods (Raleigh, NC)

Light and Electron Microscopy Services

Director/Contact: Michael J. Dykstra, Ph.D.

michael_dykstra@ncsu.edu or (919) 513-6202

<http://www.cvm.ncsu.edu/research/laelom>

NCSU Flow Cytometry and Cell Sorting Facility (Raleigh, NC)

The laboratory provides instrumentation and assistance for multi-parameter flow cytometric analysis and sorting. It is available for use to all NCSU researchers and to those outside the NCSU community and operates as a by appointment, fee for service lab.

Director: Mary Tompkins, Ph.D.

Contact: Janet Dow

jdow@unity.ncsu.edu or (919) 513-6443

<http://www.cvm.ncsu.edu/ccmtr/flocyt.html>

● UNIVERSITY OF NORTH CAROLINA AT CHAPEL HILL

University of North Carolina at Chapel Hill Core Laboratory Facilities (Chapel Hill, NC)

UNC-Chapel Hill hosts more than 50 core facilities. A wide range of services is provided from analytical chemistry to microscopy to X-ray crystallography among others. Access to services may vary. Contact the individual core facility for more information.

http://research.unc.edu/services/core_facilities.php

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SOUTHEASTERN REGION

● UNIVERSITY OF NORTH CAROLINA WILMINGTON

UNCW Center for Marine Science (Wilmington, NC)

The mission of the Center for Marine Science at UNCW is to promote basic and applied research in the fields of oceanography, coastal and wetland studies, marine biomedical and environmental physiology, and marine biotechnology and aquaculture.

Director: Daniel G. Baden, Ph.D.

Contact: Mellissa Dionesotes

dionesotesm@uncw.edu or (910) 962-2330

<http://www.uncw.edu/cmsr>

WESTERN REGION

● APPALACHIAN STATE UNIVERSITY

Dewel Microscopy Facility (Boone, NC)

We provide light microscopy, laser scanning confocal microscopy, and electron microscopy (TEM & SEM) equipment and technical support to ASU and western North Carolina.

Director/Contact: Guichuan Hou, Ph.D.

houg@appstate.edu or (828) 262-2682

<http://www.casmifa.appstate.edu/>

Human Performance Laboratory (Boone, NC)

The mission of the ASU Human Performance Laboratory is to investigate the influence of unique plant molecules on age-related loss of muscle mass (sarcopenia), muscle mitochondrial biogenesis, and exercise-induced immune dysfunction and oxidative stress.

Director/Contact: David C. Nieman, Dr. PH

niemandc@appstate.edu or (828) 773-0056

<http://www.hles.appstate.edu>

● NC BIONETWORK BIOBUSINESS CENTER (Asheville-Buncombe Technical Enka Campus)

Natural Products Laboratory (Candler, NC)

The Natural Products Laboratory offers services for medicinal herb manufacturing helping customers meet cGMP and FDA regulations for dietary supplements. We also provide rentable lab space for individuals and companies interested in product research, testing and development.

Director/Contact: Sarah Schober

sschober@abtech.edu or (828) 254-1921 ext 5845

<http://www.naturalproductslaboratory.com>

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