
Core Laboratory Facilities in North Carolina - Eastern Region

Marine Conservation Molecular Facility

Duke University Marine Lab
135 Marine Lab Road
Beaufort, NC 28516
<http://www.nicholas.duke.edu/marinelab/facilities/mcmf>
(252) 504-7641

Region: Eastern
Organization Type: Academic / Non-Profit

Contact Information:

Tom Schultz, Ph.D.
Tom.Schultz@duke.edu
(252) 504-7641

Director: Tom Schultz, Ph.D.

Description:

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.

Keywords:

DNA sequencing, microsatellite analysis, SNP detection

Core Laboratory Facilities in North Carolina - Eastern Region

East Carolina University, Brody School of Medicine

Laser Capture Microdissection Core Laboratory
600 Moye Boulevard
Greenville, NC 27834
<http://www.ecu.edu/cs-dhs/internalmed/lasercapture>
(252) 744-2962

Region: Eastern
Organization Type: Academic / Non-Profit

Contact Information:

Cindy Kukoly
kukolyc@ecu.edu
(252) 744-2962

Director: Barbara Muller-Borer, Ph.D.

Description:

The Zeiss PALM 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.

Keywords:

LCM, laser capture, cryostat

Additional Comments

Membrane slides and adhesive caps are available on-site for purchase.

Core Laboratory Facilities in North Carolina - Greater Charlotte Region

Cannon Research Center Core Research Facilities

Carolinas Medical Center
1000 Blythe Blvd.
Charlotte, NC 28203

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

Region: Greater Charlotte

Organization Type: Academic / Non-Profit

Contact Information:

Dhanonjoy C. Saha, DVM, Ph.D.

Dhanonjoy.Saha@carolinashealthcare.org

(704) 355-5383

Director: Herbert L. Bonkovsky, MD

Description:

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.

Core Laboratory Facilities in North Carolina - Greater Charlotte Region

David H. Murdock Research Institute

North Carolina Research Campus
150 Research Campus Drive
Kannapolis, NC 28081
<http://www.dhmri.org>
(704) 250-2600

Region: Greater Charlotte
Organization Type: Academic / Non-Profit

Contact Information:

Sheetal Ghelani, Ph.D.
sghelani@dhmri.org
(704) 250-2648

Director: Michael Luther, Ph.D, MBA

Description:

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.

Keywords:

NMR: 950, 700, 600, 400 MHz
Genomics: Next-gen sequencing, expression analysis
Proteomics: Peptide separation, protein ID, proteomic analysis
Metabolomics: LC, GC, metal-based profiling, structure elucidation
Microscopy: Confocal, Laser Capture, TIRF

Additional Comments:

Many more services are provided, including those in histochemistry, cell culture, clinical chemistry, among others. Visit our website for additional information or contact us directly for a complete listing of these services.

Core Laboratory Facilities in North Carolina – Piedmont Triad Region

University of North Carolina Center for Design Innovation

University of North Carolina
(interim facility)
2105 Winston Tower, 301 N. Main Street
Winston-Salem, NC 27101
<http://www.centerfordesigninnovation.org/>
(336) 727-4310

Region: Piedmont Triad
Organization Type: Academic / Non-Profit

Contact Information:
Carol Strohecker, Ph.D.
cs@centerfordesigninnovation.org
(336) 354-7358

Director: Carol Strohecker, Ph.D.

Description:

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.

Keywords:

Rapid prototyping
Motion capture
Data analysis
Visualization and modeling

Additional Comments:

Partnerships are in formation and inquiries are encouraged. Research and service functions will be fully realized in the permanent facility soon to be constructed.

Core Laboratory Facilities in North Carolina - Piedmont Triad Region

Wake Forest University Core Laboratory Facilities

Wake Forest University
Winston-Salem, NC 27109
<http://www.wfu.edu/academics/research/>

Region: Piedmont Triad
Organization Type: Academic / Non-Profit

Description:

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.

Core Laboratory Facilities in North Carolina - Research Triangle Region

Almac Diagnostics Molecular Core Lab

Almac Diagnostics
4238 Technology Drive
Durham, NC 27704
<http://www.almacgroup.com>
(919) 294-0230

Region: Research Triangle
Organization Type: Commercial

Contact Information:

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

Director: Kimberly Slentz-Kesler, Ph.D.

Description:

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.

Keywords:

Gene Expression Profiling, Genotyping, mRNA, microRNA, DNA, qPCR, GLP, cell line modeling, siRNA, ELISA, assay development, Bioinformatics, data analysis, Copy Number Variance, Loss of Heterozygosity, Affymetrix, Diagnostics, Biomarker, SNP, CLIA

Core Laboratory Facilities in North Carolina - Research Triangle Region

Biomolecular Characterization Facility

Duke University
Department of Biochemistry
Rm 230 Nanaline Duke Building
Durham, NC 27710
(919) 684-4363

Region: Research Triangle
Organization Type: Academic / Non-Profit

Contact Information:

Terrence G. Oas, Ph.D.
oas@duke.edu
(919) 684-4363

Director: Terrence G. Oas, Ph.D.

Description:

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.

Keywords:

circular dichroism, fluorescence, analytical ultracentrifugation, sedimentation velocity, sedimentation equilibrium, temperature control, automated titration

Additional Comments:

User fees apply

Core Laboratory Facilities in North Carolina - Research Triangle Region

Campbell University Pharmaceutical Sciences Institute

Campbell University
130 Burt Road
Buies Creek, NC 27506
<http://campbellpharmacy.net/resources/CUPSI.html>
(910) 893-1836

Region: Research Triangle
Organization Type: Academic / Non-Profit

Contact Information:
William C. Stagner, R.Ph., M.S., Ph.D.
stagnerw@campbell.edu
(910) 893-1836

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

Description:

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.

Keywords:

Clinical Trial Materials, Analytical Testing, Formulation Development, Stability Testing, Analytical Method Development

Core Laboratory Facilities in North Carolina - Research Triangle Region

Cellular and Molecular Imaging Facility (CMIF)

North Carolina State University
CMIF, Plant Biology Department
Box 7612
Raleigh, NC 27695-7612
<http://www.ncsu.edu/project/cmif-micro/>
(919) 515-3525

Region: Research Triangle
Organization Type: Academic / Non-Profit

Contact Information:

Eva Johannes, Ph.D.
eva_johannes@ncsu.edu
(919) 515-3525

Director: Eva Johannes, Ph. D.

Description:

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.

Keywords:

CMIF has a range of high end light microscopes and cameras. Training will be provided and imaging assistance is available. Further details are posted on our website.

Additional Comments:

CMIF primarily serves the NC State community and is also open to scientists from other universities and local industries. The rates posted on our website are for NCSU students, faculty and staff. Please enquire about rates for facility users outside NCSU.

Core Laboratory Facilities in North Carolina - Research Triangle Region

Duke RNAi Screening Facility

Duke University
215 Jones Bldg-DUMC
Research Drive
Durham, NC 27710
<http://www.genome.duke.edu/cores/rnai/>
(919) 684-2059

Region: Research Triangle
Organization Type: Academic / Non-Profit

Contact Information:
James Pearson, Ph.D.
james.pearson@duke.edu
(919) 613-5132

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

Description:

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.

Keywords:

RNAi screening
Chemical screening
High-throughput assay development
High-content imaging and assay development

Additional Comments:

Open to outside users collaborating with Duke investigators.

Core Laboratory Facilities in North Carolina - Research Triangle Region

Expression Analysis

Expression Analysis
4324 S. Alston Avenue #101
Durham, NC 27713
<http://www.expressionanalysis.com>
(919) 405-2248

Region: Research Triangle
Organization Type: Commercial

Contact Information:

Karen Michailo
kmichailo@expressionanalysis.com
(919) 287-4277

Director: Steve McPhail

Description:

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.

Keywords:

Gene Expression Profiling, Genotyping, DNA Sequencing, Gene Enrichment, Bioinformatics, Affymetrix, Illumina, Applied Biosystems, Luminex, RainDance Technologies, Nanostring, FFPE, microRNA, Data Analysis

Additional Comments:

Our quality system follows CLSI guidelines and our CLIA-registered laboratory supports GLP compliance.

Core Laboratory Facilities in North Carolina - Research Triangle Region

Genomic Sciences Laboratory (GSL)

North Carolina State University
Genomic Research Laboratory
Campus Box 8619
Raleigh, NC 27695
<http://gsl.cals.ncsu.edu>
(919) 513-3881

Region: Research Triangle
Organization Type: Academic / Non-Profit

Contact Information:

Jennifer Schaff, Ph.D.
jeschaff@ncsu.edu
(919) 513-0738

Director: Jennifer Schaff, Ph.D.

Description:

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.

Keywords:

DNA sequencing (Sanger) and genotyping, GS FLX 454 sequencing, Proteomics, Protein ID, Metabolomics profile, target compounds, robotic liquid handling, 96-well DNA plasmid or tissue prep

Core Laboratory Facilities in North Carolina - Research Triangle Region

Gentris Corporation

133 Southcenter Court, Suite 400
Morrisville, NC 27560
<http://www.gentris.com>
(919) 465-0100

Region: Research Triangle
Organization Type: Commercial

Contact Information:

Scott Clark, Ph.D.
clarks@gentris.com
(919) 653-5534

Director: Scott Clark, Ph.D.

Description:

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

Keywords:

Nucleic Acid Purification, Assay Development, Genotyping, qRT-PCR, microarray technology, bioinformatics, tumor profiling, sample management, biostorage, and consulting

Core Laboratory Facilities in North Carolina - Research Triangle Region

Golden LEAF Biomanufacturing Training and Education Center (BTEC)

North Carolina State University
850 Oval Drive
Raleigh, NC 27606
<http://www.btec.ncsu.edu>
(919) 513-2000

Region: Research Triangle
Organization Type: Academic / Non-Profit

Contact Information:
Gary Gilleskie, Ph.D.
gary_gilleskie@ncsu.edu
(919) 515-0176

Director: Ruben G. Carbonell, Ph.D.

Description:

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.

Keywords:

pre-clinical process development, analytical testing, analytical test development, cGMP training, fermentation, BL-2 laboratory, cell culture, centrifugation, homogenization, chromatography, ultrafiltration, diafiltration, filtration, clean utilities

Additional Comments:

Pre-clinical processing for non-human use only, Good Large-scale Safety Practice only

Core Laboratory Facilities in North Carolina - Research Triangle Region

Kryosphere

Kryosphere, Inc. - RTP
4222 Emperor Blvd., Suite 300
Durham, NC 27703
<http://www.kryosphere.com>
(919) 941-9999

Region: Research Triangle
Organization Type: Commercial

Contact Information:

L. Eric Hallman, Ph.D.
ehallman@kryosphere.com
(919) 941-9999 x223

Director: Douglas Baker

Description:

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.

Keywords:

Biorepository; cold-chain of custody logistics; management clinical trial samples; lab relocation; sample tracking; grant maximization; sample management; biostorage; stability studies; cryopreservation; local or global transport of samples and freezers

Core Laboratory Facilities in North Carolina - Research Triangle Region

Laboratory for Advanced Electron and Light Optical Methods

North Carolina State University
College of Veterinary Medicine
4700 Hillsborough Street
Raleigh, NC 27607
<http://www.cvm.ncsu.edu/research/laelom>

Contact Information:

Michael J. Dykstra, Ph.D.
michael_dykstra@ncsu.edu
(919) 513-6202

Description:

Light and Electron Microscopy Services

Region: Research Triangle
Organization Type: Academic / Non-Profit

Director: Michael J. Dykstra, Ph.D.

Core Laboratory Facilities in North Carolina - Research Triangle Region

NCSU Flow Cytometry and Cell Sorting Facility

North Carolina State University
College of Veterinary Medicine
4700 Hillsborough Street
Main Vet Building, Room C-309
Raleigh, NC 27607

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

(919) 513-6443

Region: Research Triangle

Organization Type: Academic / Non-Profit

Contact Information:

Janet Dow

jldow@unity.ncsu.edu

(919) 513-6443

Director: Mary Tompkins, Ph.D.

Description:

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.

Keywords:

Sorting

Flow Cytometry

Fluorochromes

Lasers

Core Laboratory Facilities in North Carolina - Research Triangle Region

Shared Materials Instrumentation Facility (SMIF)

Duke University
Box 90271
Fitzpatrick Building
Durham, NC 27708
<http://smif.lab.duke.edu>
(919) 660-5486

Region: Research Triangle
Organization Type: Academic / Non-Profit

Contact Information:
Mark D. Walters, Ph.D.
mark.walters@duke.edu
(919) 660-5486

Director: Mark D. Walters, Ph.D.

Description:

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.

Keywords:

Electron Microscopy (SEM, TEM)
Atomic Force Microscopy (AFM)
Optical Spectroscopy (Raman, FTIR, UV-Vis)
XPS
X-ray Diffraction
E-Beam and Optical Lithography
Evaporation, Sputter and PECVD Deposition
RIE and Chemical Etching
Furnace Processing

Core Laboratory Facilities in North Carolina - Research Triangle Region

University of North Carolina at Chapel Hill Core Laboratory Facilities

University of North Carolina at Chapel Hill

Chapel Hill, NC 27515

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

Region: Research Triangle

Organization Type: Academic / Non-Profit

Description:

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.

Core Laboratory Facilities in North Carolina - Southeastern Region

UNCW Center for Marine Science

University of North Carolina Wilmington
5600 Marvin K. Moss Lane
Wilmington, NC 28409
<http://www.uncw.edu/cmsr>
(910) 962-2301

Region: Southeastern
Organization Type: Academic / Non-Profit

Contact Information:

Melissa Dionesotes
dionesotesm@uncw.edu
(910) 962-2330

Director: Daniel G. Baden, Ph.D.

Description:

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.

Keywords:

Mariculture, diagnostics, bioassays, screening, chemical diversity, molecular diversity, culturing of marine organisms, structure determination, and dna sequencing

Core Laboratory Facilities in North Carolina - Western Region

Dewel Microscopy Facility

Appalachian State University
112 Rankin Science South
572 Rivers Street
Campus Box 32027
Boone, NC 28608-2027
<http://www.casmifa.appstate.edu/>
(828) 262-2682

Region: Western
Organization Type: Academic / Non-Profit

Contact Information:

Guichuan Hou, Ph.D.
houg@appstate.edu
(828) 262-2682

Director: Guichuan Hou, Ph.D.

Description:

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

Keywords:

Optical microscopy imaging, Laser scanning confocal microscopy imaging, scanning electron microscopy (SEM) imaging, and transmission electron microscopy (TEM) imaging.

Additional Comments:

See policy at: <http://www.casmifa.appstate.edu/Policies.html>

Core Laboratory Facilities in North Carolina - Western Region

Human Performance Laboratory

Appalachian State University
Human Performance Laboratory
Dept. Health and Exercise Science
PO Box 32071
Boone, NC 28608
<http://www.hles.appstate.edu>
(828) 262-3142

Region: Western
Organization Type: Academic / Non-Profit

Contact Information:
David C. Nieman, Dr. PH.
niemandc@appstate.edu
(828) 773-0056

Director: David C. Nieman, Dr. PH.

Description:

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.

Keywords:

Flavonoids, exercise testing, immune function

Core Laboratory Facilities in North Carolina - Western Region

Natural Products Laboratory

NC BioNetwork BioBusiness Center
AB Tech Enka Campus
1463 Sand Hill Road
Candler, NC 28715
<http://www.naturalproductslaboratory.com>
(828) 254-1921 ext 5845

Region: Western
Organization Type: Academic / Non-Profit

Contact Information:

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

Director: Sarah Schober

Description:

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.

Keywords:

Natural Products Laboratory, NPL, Herbal Medicine, Dietary Supplements, FDA Herb, Herbal Good Manufacturing Practices, GMP, Herb School, Herbal GMP, Herbal GMP Manufacturing, FDA Herbs