A Brief Tour of Shared Research Facilities
Organization of Shared Research Facilities

- **University administered shared research facilities:**
  
  Genomic Sciences Laboratory (GSL)
  Cellular and Molecular Imaging Facility (CMIF)

- **Other NCSU shared research facilities are administered by colleges:**
  
  College of Agricultural and Life Sciences (CALS)
  College of Engineering (COE)
  College of Natural Resources (CNR)
  College of Textiles (COT)
  College of Sciences (COS)
  College of Veterinary Medicine (CVM)
Genomics and Bioinformatics

- **Sequencing and Library Preparation:** [http://research.ncsu.edu/gsl](http://research.ncsu.edu/gsl)

- **Bioinformatics and Statistical Consulting:** [http://brc.ncsu.edu/consulting/](http://brc.ncsu.edu/consulting/)

- **High-Performance Computing:** [http://www.ncsu.edu/itd/hpc/About/About.php](http://www.ncsu.edu/itd/hpc/About/About.php)
Structural Analysis

- **NMR facilities**: [http://www.ncsu.edu/chemistry/nmr/HTML_FILES/Operation.html](http://www.ncsu.edu/chemistry/nmr/HTML_FILES/Operation.html)  

- **X-Ray Crystallography**: [http://biochem.ncsu.edu/XRC/](http://biochem.ncsu.edu/XRC/)

- **Mass Spectrometry**: [http://www.ncsu.edu/chemistry/msf/index.html](http://www.ncsu.edu/chemistry/msf/index.html)  
Structural Analysis

- **Scanning Microscopy Lab:** [http://www.aif.ncsu.edu/scanning-microscopy-laboratory/](http://www.aif.ncsu.edu/scanning-microscopy-laboratory/)

- **Surface Science Laboratory:** [http://www.aif.ncsu.edu/surface-science-lab/](http://www.aif.ncsu.edu/surface-science-lab/)

- **X-Ray Diffraction Laboratory:** [http://www.aif.ncsu.edu/xrd-laboratory/](http://www.aif.ncsu.edu/xrd-laboratory/)

- **Nanofabrication Facility:** [http://www.nnf.ncsu.edu/](http://www.nnf.ncsu.edu/)
• **Wide-field and Confocal Imaging:**  [http://www.ncsu.edu//project/cmif-micro/](http://www.ncsu.edu//project/cmif-micro/)

• **Laser Imaging and Vibrational Spectroscopy:**  [http://www.ncsu.edu/chemistry/livs/index.html](http://www.ncsu.edu/chemistry/livs/index.html)

• **Electron Microscopy:**  [http://www.ncsu.edu/cem/](http://www.ncsu.edu/cem/)
  [http://www.cvm.ncsu.edu/research/laelom/](http://www.cvm.ncsu.edu/research/laelom/)
  [http://www.aif.ncsu.edu/tem-lab/](http://www.aif.ncsu.edu/tem-lab/)

• **Small and Large Animal Imaging:**  [http://www.cvm.ncsu.edu/mbs/residency_prog_radiol.html](http://www.cvm.ncsu.edu/mbs/residency_prog_radiol.html)
Cell and Tissue Analysis

- **Flow Cytometry:** [http://www.cvm.ncsu.edu/ccmtr/flocyt.html](http://www.cvm.ncsu.edu/ccmtr/flocyt.html)

- **Histology:** [http://www.cvm.ncsu.edu/dphp/labs/histolab-rt.html](http://www.cvm.ncsu.edu/dphp/labs/histolab-rt.html)
Animal Facilities and Clinical Trials

- **Getting Started Working with Animals:** [http://www.cvm.ncsu.edu/ lar/key_steps.html](http://www.cvm.ncsu.edu/ lar/key_steps.html)
- **Laboratory Animal Resources:** [http://www.cvm.ncsu.edu/ lar/](http://www.cvm.ncsu.edu/ lar/)
- **Biological Resources Facility:** [http://harvest.cals.ncsu.edu/brf/index.cfm?pageID=673](http://harvest.cals.ncsu.edu/brf/index.cfm?pageID=673)
- **Animal Procedures Laboratory:** [http://www.cvm.ncsu.edu/ lar/cpl.html](http://www.cvm.ncsu.edu/ lar/cpl.html)
- **Gnotobiotic Core Facility:** [http://www.cvm.ncsu.edu/dphp/labs/gnacclab.html](http://www.cvm.ncsu.edu/dphp/labs/gnacclab.html)
- **Animal Clinical Trials:** [http://www.cvm.ncsu.edu/ccmtr/csc.html](http://www.cvm.ncsu.edu/ccmtr/csc.html)
Plant Growth and Genetics Facilities

- **Growth Chambers**: [http://www.ncsu.edu/phytotron/](http://www.ncsu.edu/phytotron/)

- **Plant Transformation Lab**: [http://projects.cals.ncsu.edu/planttransformation/](http://projects.cals.ncsu.edu/planttransformation/)

- **Small Grains Genotyping Lab**: [http://www.ars.usda.gov/Main/docs.htm?docid=19522](http://www.ars.usda.gov/Main/docs.htm?docid=19522)

- **Plants for Human Health Institute**: [http://plantsforhumanhealth.ncsu.edu/](http://plantsforhumanhealth.ncsu.edu/)

• **UNC-CH Core Facilities:**  [http://www.med.unc.edu/corefacilities](http://www.med.unc.edu/corefacilities)

Available now at UNC rates:

**Proteomics:**  [http://proteomics.unc.edu/](http://proteomics.unc.edu/)

Soon to be available at UNC rates:

**Protein Expression and Purification:**  [http://www.med.unc.edu/csb/PEP/](http://www.med.unc.edu/csb/PEP/)
**Monoclonal Antibody Production:**  [http://mabs.unc.edu/](http://mabs.unc.edu/)
**Protein/Ligand Interactions:**  [http://www.med.unc.edu/biochem/macinfac](http://www.med.unc.edu/biochem/macinfac)
**Virus-mediated RNAi Screens:**  [http://www.med.unc.edu/lenti-shrna](http://www.med.unc.edu/lenti-shrna)
**Gene Therapy:**  [http://genetherapy.unc.edu/services.htm](http://genetherapy.unc.edu/services.htm)
For detailed information on the 53 Centers and Institutes at NCSU, see the following Web Site:  http://research.ncsu.edu/sparcs/centers/ncsu-centers/