Molecular biology techniques are increasingly important components of most fields of scientific research. Analysis of behavioral patterns, environmental effects, drug efficacy, and more now involve techniques such as gene and protein expression analyses, genotyping, and the generation and analysis of mutants. The Molecular Core Lab can simplify your work and help you achieve your research goals.

**GENERAL SERVICES**

- Performing experiments and providing data
- Training students and lab personnel
- Designing experiments that produce valid and publishable results
- Developing protocols to address specific questions
- Providing project cost estimates for grant proposals
- Identifying the best equipment for your needs and negotiating the best price from the company

...let us help you succeed!

**EXPERIENCE**

- Handling a variety of samples including buccal swabs, saliva, blood, animal tissue, leaves, fungi, and corn kernels
- qPCR and qRT-PCR
- Cloning
- Primer design
- Site-directed mutagenesis and other mutational techniques
- Mammalian and insect cell culture assays
- Western, Northern, and Southern transfers
- Genotyping and more!

**CONTACT**

Director Renuka Shivaji • r_shiva2@uncg.edu • 336.256.8570 • http://research.uncg.edu/corelab
GET STARTED WITH A FREE TRIAL!

DNA/RNA extractions

Using Promega’s Maxwell automated DNA/RNA extraction system (learn more on our website)

System can run up to 16 samples at a time

Works on a beads-based system, allowing extraction without any cross-contamination

Extractions from both plant and animal tissues, ranging from corn kernels to buccal swabs, saliva, and blood

Gel electrophoresis and Western transfer of protein samples

Using Biorad’s Turbo Transfer system (learn more on our website)

Electrophoresis and transfer completed within 45 minutes

UNCG MOLECULAR CORE LAB
OFFICE OF RESEARCH AND ECONOMIC DEVELOPMENT

Services and consulting for molecular biology-based research.

RNA extraction from animal tissue ......................... $11.28 / sample

RNA extraction from plant tissue ............................ $14.04 / sample

DNA extraction from animal tissue and saliva .............. $11.61 / sample

DNA extraction from plant tissue ............................ $13.86 / sample

DNA extraction from buccal swabs .......................... $13.49 / sample

Western transfer (includes electrophoresis) ................. $52.44 / gel

For all other services, cost estimates will be provided upon request.

Written protocols will be provided for manuscripts.

Renuka Shivaji, Director
Over 22 years experience managing molecular biology laboratories, conducting research, training students, and teaching. M.S. Biochemistry.

Jenna Callender, Lab Manager
Over six years experience managing a molecular genetics laboratory focused on research and teaching. M.S. Molecular Genetics.

Dr. Vincent Henrich, Science Advisor
Biology professor, career molecular geneticist, and director of the UNCG Center for Biotechnology, Genomics and Health Research. Ph.D. Genetics.