**Connor Gorman**

**January 2017**

**Contact**

430 Southwest Pkwy #1804 cgorm42691@TAMU.edu

College Station, TX 77840 615-598-6547

**Education**

Current Graduate Study – Plant Pathology and Microbiology Graduate Student

Texas A&M University

2014 Bachelors Degree of Science – Plant Sciences (Biotechnology)

University of Tennessee Knoxville

**Work Experience**

2013 Samuel Roberts Noble Foundation – Summer Scholar in Dr Malay Saha’s Lab – Forage Improvement, Molecular Marker Lab

2011-2014 University of Tennessee – Dr. C. Neal Stewart’s Lab

Plant Molecular Genetics and Biotechnology

Current Texas A&M University – Dr. Joshua Yuan’s Lab

Synthetic Biology

**Skills**

Science

Molecular/Genetic Engineering

Advanced PCR Techniques

*in vitro* Biology

Plant Transformation

Plant Tissue Culture

Fluorescence Microscopy

Plant care Greenhouse work

Grow-space Design

Field Plots/Design

Field Experiments

Lab Management

Undergraduate Mentoring

Software

* Vector NTI® Software
* APHIS\_BRS lvl2 ePermiting
* Statistical Analysis Software (SAS 9.3)
* Matlab (MATLAB\_R2010a)
* Microsoft Office Suite
* ImageJ
* Google SketchUp 8

**Interests**

Implementation of molecular techniques and biotechnology towards solutions in U.S. and international food and energy production

Learning new concepts and techniques in plant molecular biology, biotechnology and genomics

Production of compounds essential to an industrial economy in plantae as a bio-factory – examples being pharmaceutical, nutritional benefit, and/or increased plant vigor

**Research Projects**

*Construction and validation of vectors designed for testing promoters in monocots,* University of Tennessee, project leaders: Charleson Poovaiah and Neal Stewart.

*Evolutionary relationship of Panicum species using molecular markers,* Samuel Roberts Noble Foundation, project leaders: Desalegn Serba and Malay Saha,

*Microspore tissue culture in switchgrass*, University of Tennessee, project leaders: Hem Bhandari, Jason Burris and Neal Stewart.

*Increased transformation efficiency in Panicum virgatum through genotypic bottlenecking through phenotypic selection and transformation through A. tumefaciens,* University of Tennessee, project leaders: Jason Burris and Neal Stewart

*Terpene Biosynthesis in Tobacco: SBPase in carbon fixation leading to squalene biosynthesis with engineered carbon redirection pathway*, Texas A&M University, project leaders: Connor Gorman and Joshua Yuan

*Field performance of engineered tobacco for terpene bioproduct,* Texas A&M University, project leaders: Connor Gorman and Joshua Yuan

*Engineering Sugarcane to produce squalene: technology transfer into monocot platform*, Texas A&M University, project leaders: Connor Gorman and Joshua Yuan

**Presentations of Research**

2016 Tobacco Workers Conference

Nashille TN

2013 University of Tennessee Plant Sciences Research Seminar

Knoxville, TN

2013 Noble Summer Research Scholar Program Seminar

Ardmore, OK

2012 Posters at the Capital Event

Nashville, TN

2011 Exhibition of Undergraduate Research and Creative Achievement (EUReCA) Knoxville, TN

**Posters**

Construction and validation of promoter testing vectors in *Panicum virgatum*

-Connor Gorman, Charleson Pooviah, C. Neal Stewart, Jr.

Selection of switchgrass (*Panicum virgatum* L.) "Performer" clones for use in tissue culture and transformation

-Jason N. Burris, Connor Gorman, C. Neal Stewart, Jr.

**Awards**

-Wellgates Member (Merit Based Honors Society)

-A.E. McClanahan Agricultural Award (Merit Scholarship)

-Exhibition of Undergraduate Research and Creative Achievement “EUReCA” Award Winner for Undergraduate Research

-Invited to Present Research to Legislators at the Capitol

-Invitation to Phi Sigma Theta Honors Society

**References**

Dr. Joshua Yuan – Texas A&M University

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510-919-7668

Dr. C. Neal Stewart - University of Tennessee

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[University of Tennessee](http://www.tennessee.edu)   
Knoxville, TN   
37996-4561

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865-974-7324

Dr. Malay Saha – The Samuel Roberts Noble Foundation

Forage Improvement Division

Molecular Marker Lab

mcsaha@noble.org

Dr. Desalegn Serba –The Samuel Roberts Noble Foundation

Forage Improvement Division

Molecular Marker Lab

ddserba@noble.org

402-202-8335

Jason Burris – University of Tennessee

Current project mentor

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