



## 2021 South Carolina Genetics Conclave

*Advanced Genetic and Genomic Technologies: Impact on diagnosis and research*

Friday, November 19, 2021

Zoom Link: <https://greenwoodgenetics.zoom.us/j/84320440990?pwd=TGE1SlICR0FPbkhKaWlIMVp4UXRIQT09>

### MORNING CME SESSION

**Conclave Moderator: Camerun Washington, MS, CGC**  
**GGC, Greenville Office**

9:00	Welcome, introductory remarks and overview of today's focus	
9:10	<i>Whole genome sequencing (WGS)</i>	Julie Jones, PhD Program Director GGC Clinical genomic sequencing
		Raymond Caylor, PhD Assistant Director, GGC Molecular Laboratory
9:35	<i>Methylation studies</i>	Matt Tedder, PhD GGC Molecular Laboratory
10:00	<i>RNA sequencing</i>	Mike Friez, PhD Director, GGC Diagnostic Laboratories
10:25	<b>BREAK</b>	
10:40	<i>Xon microarray</i>	Tim Fee, PhD Staff Scientist GGC Cytogenetics / Array Laboratory
11:05	<i>Long-read WGS</i>	Vijay Shankar, PhD Clemson University Center for Human Genetics
11:30	<i>Optical genome mapping (OGM)</i>	Alka Chaubey, PhD Bionano, Chief Medical Officer

12:00

**LUNCH BREAK**

**AFTERNOON CME SESSION**

1:00	<i>The analytic landscape</i>	Vijay Shankar, PhD Clemson University, Center for Human Genetics
1:30	<i>Technological advances in biochemistry</i>	Laura Pollard, PhD Director, GGC Biochemical Laboratory
1:55	<i>Technology in functional studies</i>	Heather Flanagan-Steet, PhD Director, GGC Functional Studies
2:20	<i>The next generation of technologies: What does The future hold?</i>	Kameryn Butler, PhD/ Ben Hilton, PhD Assistant Directors, GGC Cytogenetics Laboratory
2:45	Concluding remarks	Camerun Washington, MS, CGC

**OBJECTIVES:**

- To examine today's advanced genetic technologies
- To evaluate the impact of various technologies on diagnostic capabilities and in research
- To illustrate the importance and role of bioinformatics in generating a diagnosis
- To hypothesize on the role and impact of the next generation of technologies

Disclosure of faculty and commercial support relationships, if any, will be made known at the conference.

*This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Medical Association of Georgia (MAG) through the joint providership of Self Regional Healthcare and the Greenwood Genetic Center. Self Regional Healthcare is accredited by the Medical Association of Georgia to provide continuing medical education for physicians. Self Regional Healthcare designates this live activity for a maximum of (TBD) AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.*