## Low to No Cost Undergraduate Research: Mentoring Biology Students When Resources are Scarce

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## **Author Biography**

Dr. Amanda L. J. Duffus is an Associate Professor of Biology and a Center for Excellence in Teaching and Learning Faculty Fellow at Gordon State College. She is actively involved in undergraduate research and mentors students not only by selfs, but in conjunction with other faculty. Over the past 10 years, she has mentored over 40 students who have presented at regional, national, and international conferences and has published six peer reviewed journal articles with student authors Sappily married with a son, owned by four cats, and is a budding karate student.

Undergraduate research (UR) is one of the Association of American Colleges and Universities attigh practices (Kuh, 2008) These experiences take a variety of formstuding cours based undergraduate research experiences (C.U.R.E.s), and mentoring of individuals or small groups where the student takes charge of a project or small areas of a larger project. Unfortunately, there are limited funds available for undergr

-faculty collaborations, and have produced a multitude of studedntresentations.

## **Description of Activity**

In addition to my teaching duties, which do not include studented research, I work with students in small group settings (lab meetings) and individually re the students are responsible for a project or a small po

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costs, many students still cannot afford to attend. In order to overcome the costs associated with professional conferences, one great way to promote UR is to have a research day or a STEM poster hour on campus These research events can be formal or intervent at Gordon State College (GSC), we have an annual Undergraduate Research Symposium (URS) for our students. It is organized by a committee and is a day long event that encompasses student research in all disciplines. The URS at GSC was started to 2011 a has been successful enough to be developed into-day undervent There are both oral and poster presentations and these presentations are judged by faculty members, with the best presentations receiving awards.

Publishing with UR students can be exiptly problematic when no funding is available. Many scientific journals charge exorbitant publication fees, and relatively few have programs available to reduce the costs

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