

Virtual **Laboratory**



OVERVIEW

Labvatar is a VR application designed to give users a collaborative training tutorial demonstrating the Gram staining method for identifying unknown bacteria.



Users can join a lab session with other students and go through the process of the Gram staining method collaboratively.

The experiences are created using our "Social VR" platform, allowing for up-to 30

students and the teacher to operate in a virtual chemistry classroom, working on chemistry experiments and includes both a learning component and assessment component.

PROJECT DESCRIPTION

Working with Fletcher Technical College in Louisiana, we developed a customized virtual laboratory application for students to enhance their lab experience.

The students have the opportunity to virtually attend lab experiments during which educators can expand on learnings and or lecture in real time.

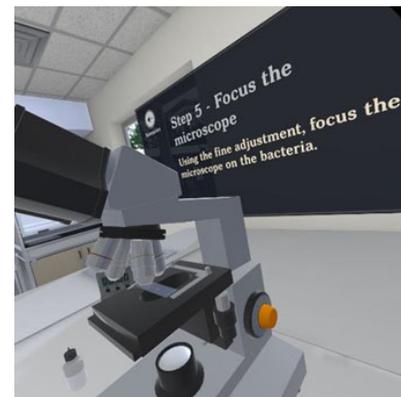
All laboratory equipment necessary to gram

stain including but not limited to microscope, agar plates, Bunsen burners and slides are available to the students.

The experiences are created using our multiplayer platform, allowing for up-to 30 students and the teacher to collaborate in a virtual chemistry classroom.

The VR experience gives users a training tutorial demonstrating the Gram staining method for identifying unknown bacteria.

The VR experience also includes an assessment component, in which the teacher provides feedback and grades.



OUTCOMES

The prototype was such a success, that Fletcher Technical College has expanded the project to add an additional 5 modules to their virtual classroom.