

HANDS-ON MINDS-ON INDUSTRIAL PRACTICES

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Presentation Title: The Science of Immunity: Five Free Lesson Plans Featuring Raven the Science Maven

This session will be a demonstration of the Science of Immunity online platform (scienceofvaccines.org), which is a set of five free lesson plans that help students learn and inspire critical thinking and foster curiosity about the multidimensional world of immunity and how vaccines help fight diseases. Participants will explore superheroes of the immune system, human and veterinary vaccines, and the processes behind vaccine research and regulation. Participants will examine the following five lesson plan modules:

1. Introduction to the Immune System
2. Introduction to Vaccines
3. Pediatric and Veterinary Vaccines
4. Introduction to Vaccine Research and Regulation
5. Careers in Vaccinology and Science Communications

Developed by North Carolina middle school teachers with the Reagan-Udall Foundation for the FDA, the five modules are intended for use with grades 7-8 and align with North Carolina science standards. Each module includes a series of videos created by and featuring Dr. Raven Baxter, better known to her fans by her online moniker, “Raven the Science Maven.” The videos provide relevant background information and specific instructions for how educators can implement the activities as part of an overall lesson. To supplement the instructional materials, Dr. Baxter also created a series of short videos that speak directly to students and the broader public. The modules are designed so that educators can decide what topics to use, and how to sequence them for maximum educational impact.

Presentation Target:

Middle School

Presenter(s):

1. Carla Rodriguez, Reagan-Udall Foundation for the FDA
2. Joy Eckert, Research Manager, Reagan-Udall Foundation for the FDA