

With knowledge comes great responsibility

Season 3, Episode 3

Episode notes

Topics and terms such as biosafety, biosecurity, containment, and contamination are things most of us have heard of and think about at some level, but with the pace of molecular biology moving faster than ever, these are topics with implications that are reaching farther than ever. We're joined by Dr. Ryan Burnette and Dr. Lauren Richardson from Merrick and Company for this episode, and they're ace communicators that help walk us through the expanding horizon and implications of these topics. This conversation starts on the basic topics, like what biocontainment is and what's needed for each of the four levels of biosafety labs, but it guickly moves beyond, shining a lighton the security and containment needs for more than just theorganisms. We hear about how the data and methods used to do modern molecular biology, as well as the data generated in the experiments, are equally precious and in need of protection and containment. With public health and safety on the line, and an acknowledgement that the pace of science moves faster than that of policy, we get into the idea of who really owns responsibility for protecting data. Your role might be more important than you know, so don't miss this conversation that will make you pause and think!

About our guests

Ryan N. Burnette, PhD
Senior Vice President, Life Sciences, Merrick & Company

Lauren Richardson, DVM, MPH, DACVPM Senior Director, Science & Technology, Merrick & Company

Recent publications

Ryan's

Richardson LC, Lewis SM, Burnette RN. <u>Building Capacity for Cyberbiosecurity Training</u>. Front Bioeng Biotechnol.2019 Jun 26;7:112

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Richardson LC, Connell ND, Lewis SM, Pauwels E, Murch RS. <u>Cyberbiosecurity:</u>
 <u>A Call for Cooperation in a New Threat Landscape</u>. Front Bioeng Biotechnol.
 2019 Jun 6;7:99.

"I think if there's one thing that we can, we can bestow upon the audience is to understand that you to have that responsibility to think about things related to security and misuse. Because if you don't, it might be another decade before a voluntary consortium or policy maker gets to the same conclusion." —Ryan Burnette, PhD



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