

# Bringing Chemistry to Life

## a podcast series

Season 5, Episode 10

The most interesting man in chemistry



### Episode Abstract

A chemist is not the profession most would guess when first meeting Matt Giese, and perhaps that's because it wasn't his first, second, or even third profession. Join us for this phenomenal conversation with Matt, Senior Scientist at Vector Laboratories, where he takes us through his very non-traditional career journey and shares lessons learned along the way. Now working to develop technologies to make antibody drug conjugates (ADCs), we dive into the chemistry of ADCs and the tightrope balance and skill needed to design these for success. This is an episode you don't want to miss.

### Episode Notes

Bioconjugation of antibodies to drugs via chemical linkers is how antibody drug conjugates (ADCs) are made. We're joined by Matt Giese, Senior Scientist at Vector Laboratories, who talks us through the complex chemistry options and biodesign considerations that have to be considered and balanced when making a successful ADC.

How does one build the skillset to work in biodesign of ADCs you might ask? Well, Matt's career path might not provide a clearcut roadmap like you might hope. That's because Matt started his career as an auto mechanic, moved into art, went back to auto mechanics, worked as baggage handler and as a construction worker, all before ever finding chemistry. If you think that's a convoluted path, just wait to hear about his academic and professional work journeys.

You'll revel in following this journey, and in the lessons and diverse skills learned along the way. Join us to hear it yourself, from who might just be the most interesting man in chemistry!

### About Our Guest

#### Matt Giese

Senior Scientist  
Vector Laboratories

### Matt's Recent Publications:

- [Linker Architectures as Steric Auxiliaries for Altering Enzyme-Mediated Payload Release from Bioconjugates](#)
- [The Use of Uniform PEG Compounds in the Design of ADCs](#)
- [An Intra/Intermolecular Suzuki Sequence to Benzopyridyloxepines Containing Geometrically Pure Exocyclic Tetrasubstituted Alkenes | Organic Letters \(acs.org\)](#)
- [Method for the Analysis of Cannabinoids and Terpenes in Cannabis](#)
- [Non-enzymatic cyclization of creatine ethyl ester to creatinine](#)
- [Construction of the Benzindenoazepine Skeleton via Cyclopentannulation of Fischer Aminocarbene Complexes: Total Synthesis of Bulgaramine](#)

### Matt's Recommendations:

- [Influencing ADC Performance Through Linker Design](#), a resource for technical information about ADC's and linkers
- [Daily Stoic Email Newsletter](#), Matt's favorite way to start each day
- [Reverence](#), an album by Parkway Drive that motivates Matt
- [The Shallows: What the Internet Is Doing to Our Brains](#), a book by Nicholas Carr
- [The Myth of Sisyphus](#), a book by Albert Camus

This podcast series is available via the following links

