

## **Biomolecules do amazing things and we work with amazing people**

Professor Jen Heemstra, Washington University in St Louis, Missouri, USA

RNA undergoes extensive modification through enzymatic post-transcriptional editing events. Adenosine-to-inosine (A-to-I) editing is one of the most widespread and impactful of these modifications and is catalyzed by adenosine deaminases acting on RNA (ADARs). Resulting inosines base pair with cytosine, essentially re-coding adenosine sites to guanine. Editing is essential for life and dysfunctional editing is linked to numerous diseases. Despite this importance, our overall understanding of the regulation and localization of editing remains limited. To address this challenge, we have repurposed EndoV from an RNA-cleaving enzyme into an RNA-binding protein and demonstrated its use for mapping of A-to-I editing sites and global profiling of RNA inosine content in cells and tissue samples.

And all of this research happens because of people. The impact of high-quality mentoring on the success and well-being of those we work with can be tremendous. However, your research training may not have prepared you to be a mentor and learning how to be a great mentor can feel intimidating. Fortunately, there are small practices that you can put in place to have large impact, and we can all benefit from sharing ideas.