Where's Waldo is a classic children's puzzle that requires us to interrogate each character in the picture to identify the one that best matches Waldo. Similarly, single molecule biochemistry is a way of doing biology that is most intuitive to the human experience—we learn by observing the behavior one molecule at a time. The researchers who are a part of this seminar series bring forth diverse technologies to interrogate individual biological molecules.

This course will involve seminars and discussions to help students understand the creative uses of different single molecule methods and acquire perspectives on what is happening at the leading edge of these methods. The course requires participation in ALL seminars and small group discussions with each speaker and a final term paper.

9/4/18 - Introductory Discussion Session
9/25/18 - Jie Xiao, Johns Hopkins School of Medicine
            (Single molecule imaging in cells)
10/23/18 - Luke Lavis, Senior Group Leader, Janelia Research Campus
            (New chemical probes for in vivo imaging)
11/6/18  - Sua Myong, Johns Hopkins School of Medicine
            (Single molecule FRET)
11/20/18 - Chip Asbury, University of Washington
            (Optical Tweezers)
12/4/18  - Sabrina Spencer, University of Colorado, Boulder
            (Single cell imaging)
12/11/18 - Aaron Hoskins, University of Wisconsin-Madison
            (Single molecule imaging in cell extracts)