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Author: Paniagua Soriano, Guillem
Title: The use of activity based protein profiling to study proteasome biology
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1. Multiple myeloma tumor cells can be effectively eradicated by proteasome inhibition, yet therapeutic intervention with proteasome inhibitors does not cure this disease.  
   *Chapter 1*

2. There is no such thing as a ‘molecular kiss of death’.  
   *Chapter 2*

3. No chemical reaction is truly bio-orthogonal.  
   *Chapter 3*

4. A single point mutation in the PSMB5 gene is not the key factor in proteasome inhibitor resistance adaptation mechanisms.  
   *Chapter 5*

5. Though proteasomes degrade virtually all cytosolic proteins, they themselves are likely degraded through autophagy.

6. Understanding post-translational modification mechanisms of proteasomes is imperative to fully understand the ubiquitin-proteasome system.

7. The formation of a covalent bond between an enzyme and an activity-based probe is essential for its *in vitro* use but limits its applications in living animals.

8. The complexity of a biological system is directly proportional to our understanding of this system.

9. High school is like studying a whole photobook, while at the university one focuses on a single photo and during a PhD one studies a single pixel of that photo.

10. Experiments in biology are like a box of chocolates: you never know what you are going to get.