

The Lit report is worth 150 points, here is a breakdown of roughly how I think they should be assigned:

Introduction about system – They need to introduce the system they are looking at and, explain how it works and provide some argument about why this system is important. They should also include a precise description about how their protein of interest is tied to the system they are studying. (30 pts)

The next parts must be present for each compound. Points listed are per compound.

Draw Structures – They must draw out, in chemdraw, the molecules they plan on studying. Please make sure that there isn't anything obviously wrong with their structures as draw (ie, no triple bonds at 109 degree angles). They must also indicate what part of the molecule is a hydrogen bond donor, hydrogen bond acceptor, lipophilic and hydrophobic. (10 pts)

Pharmacokinetics – This is the portion that deals with “what your body does to the compound.” They should discuss absorption, distribution, metabolism, elimination and toxicity (ie, ADMET) and should make specific mention of its half-life and other properties of administration of the drug. (5 pts)

Pharmacodynamics – This is where they should discuss the potency of the molecule, how it is administered, and potential off-target effects (or the lack thereof). (5 pts)

This part is just once

Pharmacophore – They must either cite a pharmacophore model from literature or provide a hypothesis of what their pharmacophore should be. This should include a structure of the it, drawn correctly in chemdraw. They must explain why this is the model and how it is important. (15 pts)

Citation – **The citations should be listed as super scripts in the documents**, they should be listed in ACS style at the end of the document. The first page of the citation should be provided. (10 pts)

Total break down of points

Introduction: 30 pts

Compound 1: 20 pts

Compound 2: 20 pts

Compound 3: 20 pts

Compound 4: 20 pts

Pharmacophor model: 10 pts

Citations: 10 pts

Clarity: 20 pts