Mistakes in Schoeller 1999

I'm sorry to say that this paper has some mistakes and consistently crappy usage of isotopic terminology. Still, I liked his diagrams showing where enrichment or depletion in heavy isotopes occur depending on placement of the fractionating step.

Once you get to the section on N metabolism and isotopes (pg. 671) you can start to skim. We'll talk about this more later.

Pg 668: Figure 1 and caption. While the text description of closed system fractionation (equilibrium vs. kinetic) is correct, the figure is all screwed up. Figure 1a is a plot of closed-system, kinetic behavior, so the little arrow diagram at the top and the caption is wrong. The arrow should go just one way, from A to B. Figure 1b is the phase diagram for closed-system equilibrium behavior.

Pg 669, col 1, ¶1: The definition of $\varepsilon$ is not correct. $\varepsilon \equiv (\alpha - 1) \times 1000$.

Pg 669, col 1, ¶3: "If there is isotopic discrimination at entry with $\alpha = 0.98$ (discrimination against the HEAVY isotope), then the pool of that element in the body will be depleted relative to the material entering the body."