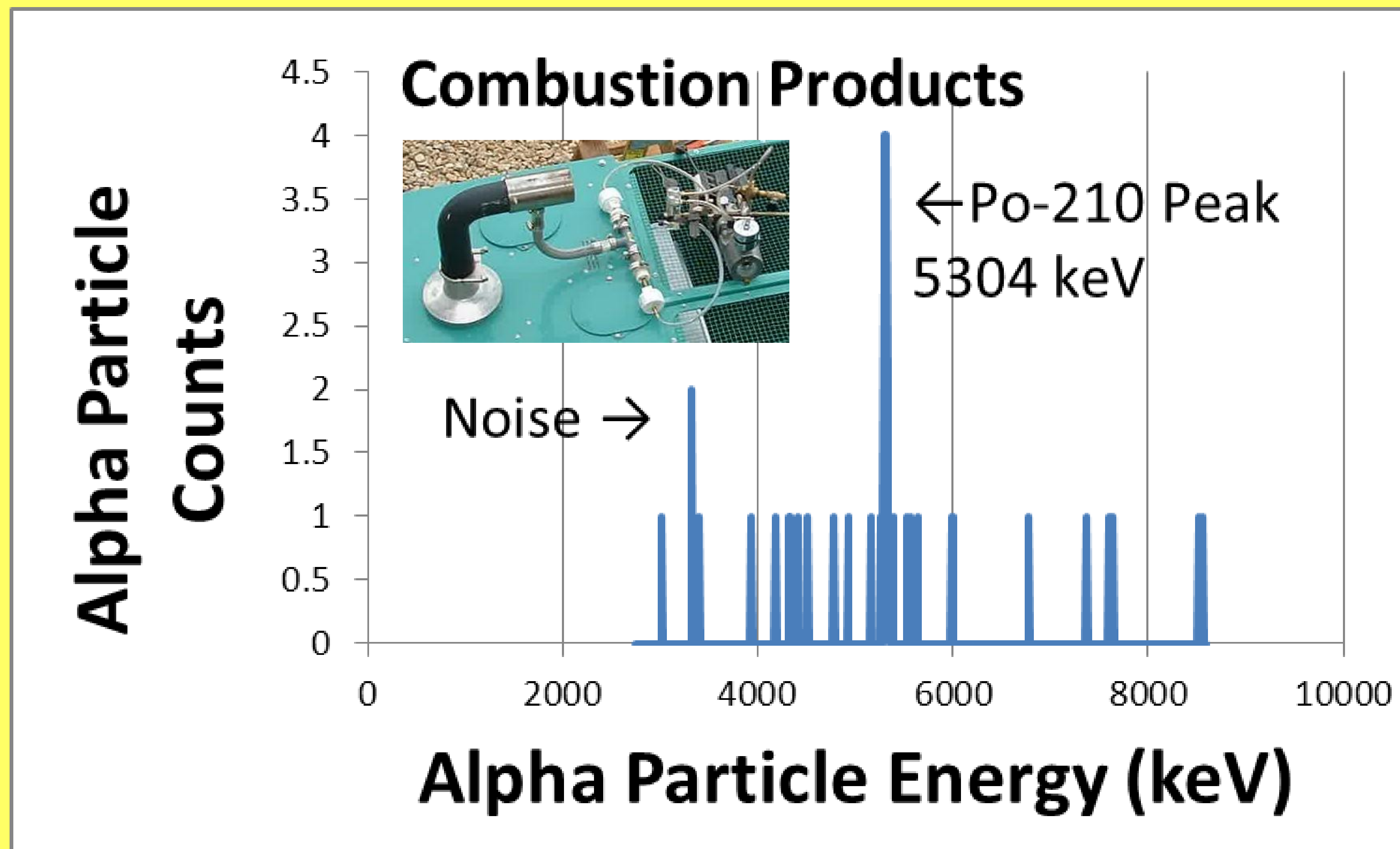
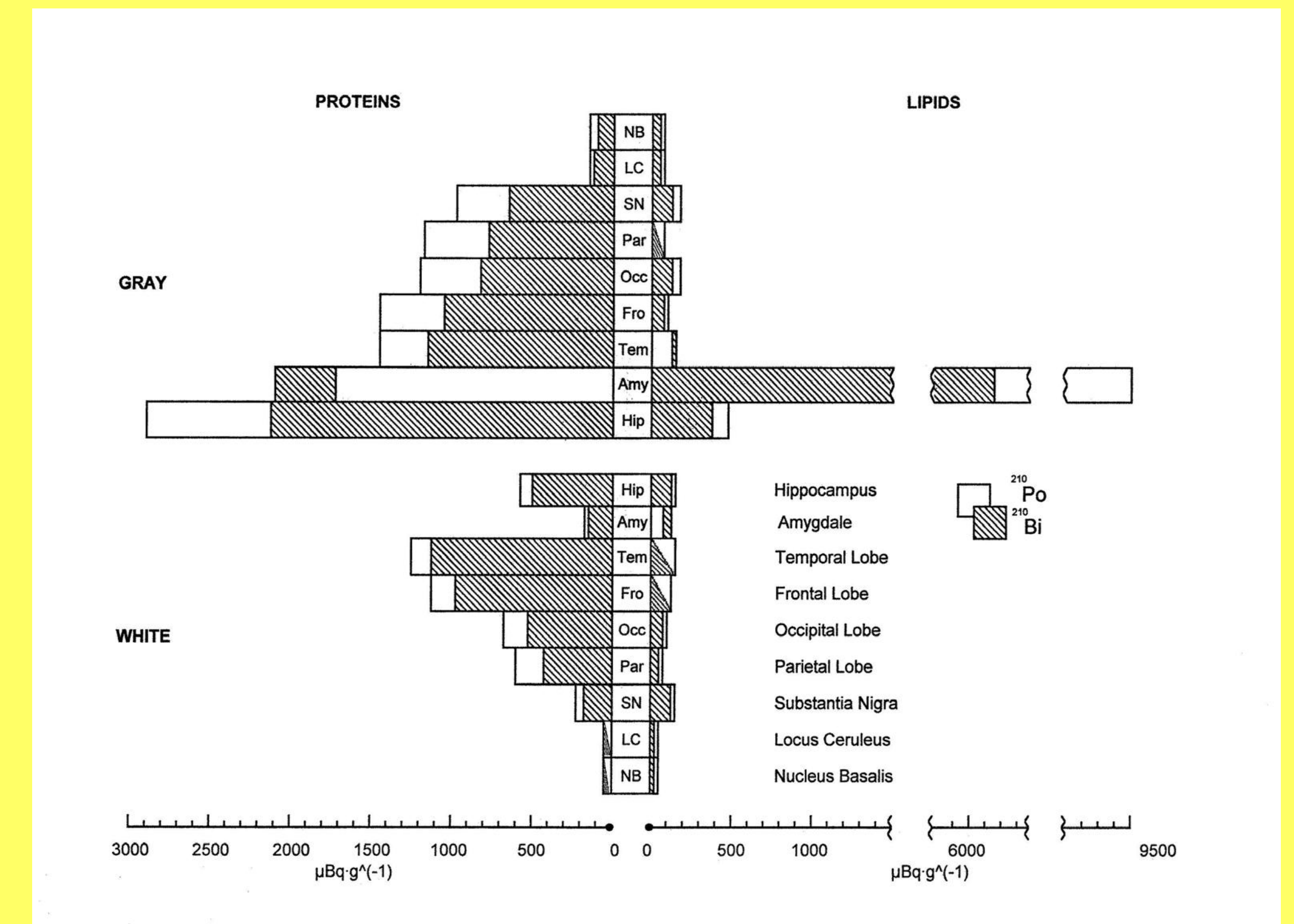


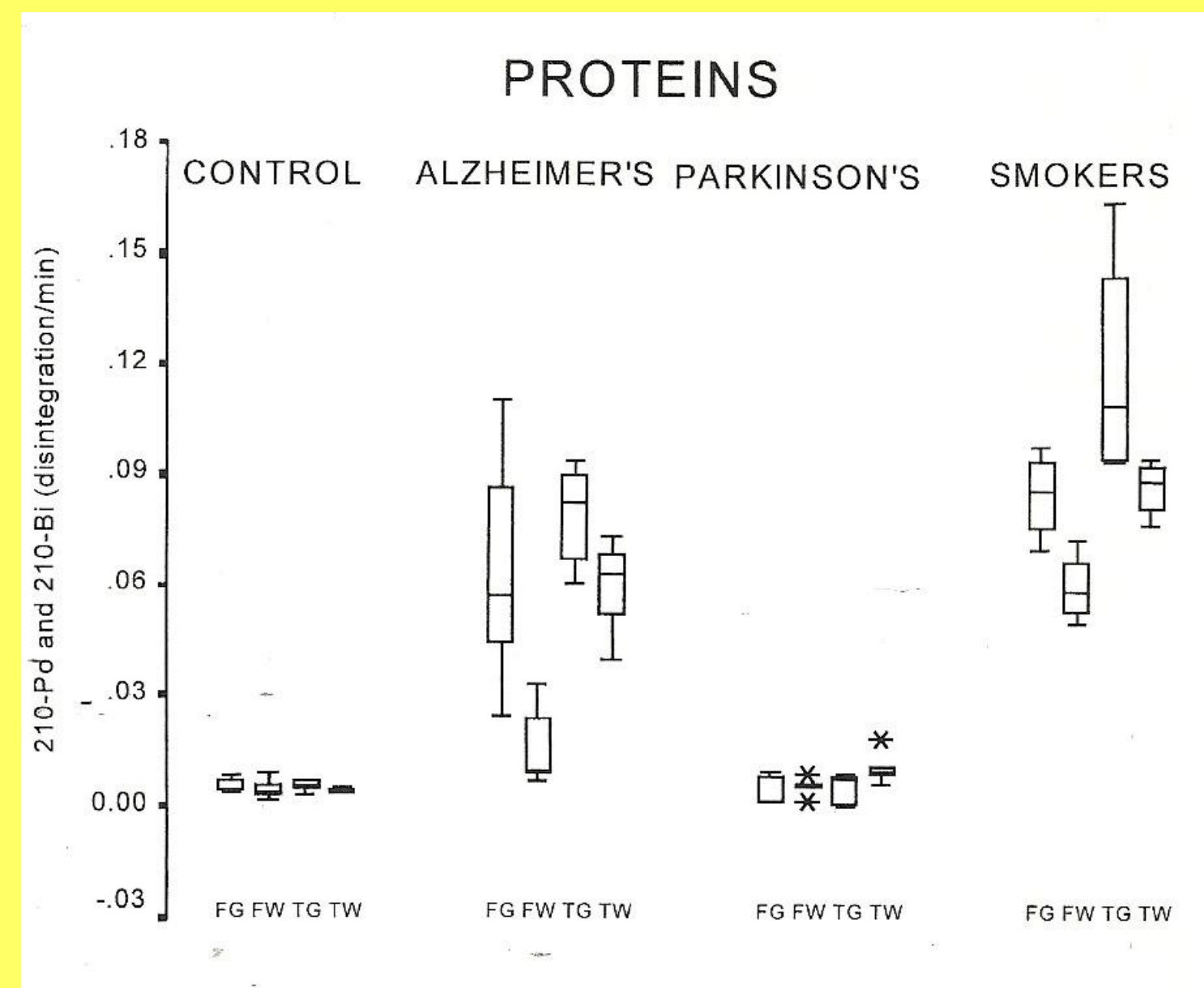
^{210}Po is found in combustion products, nerve myelin, breast and brain tissues. Why?



Combustion Products: collection & α -particle spectrum

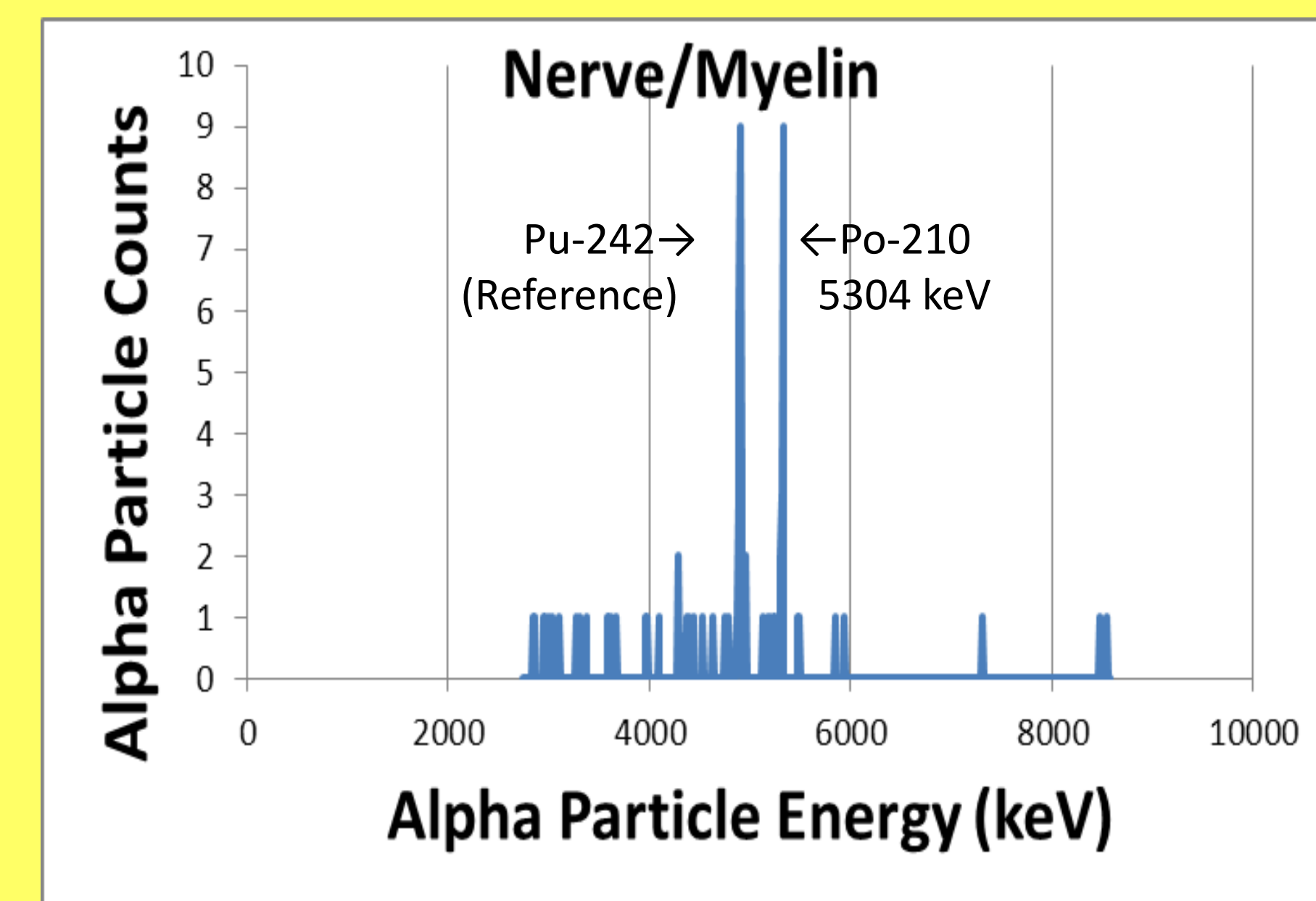


Brain structure distribution of ^{210}Po (□) and Bi-210 (■) in the proteins and lipids of the gray and white brain matter in an AD victim.



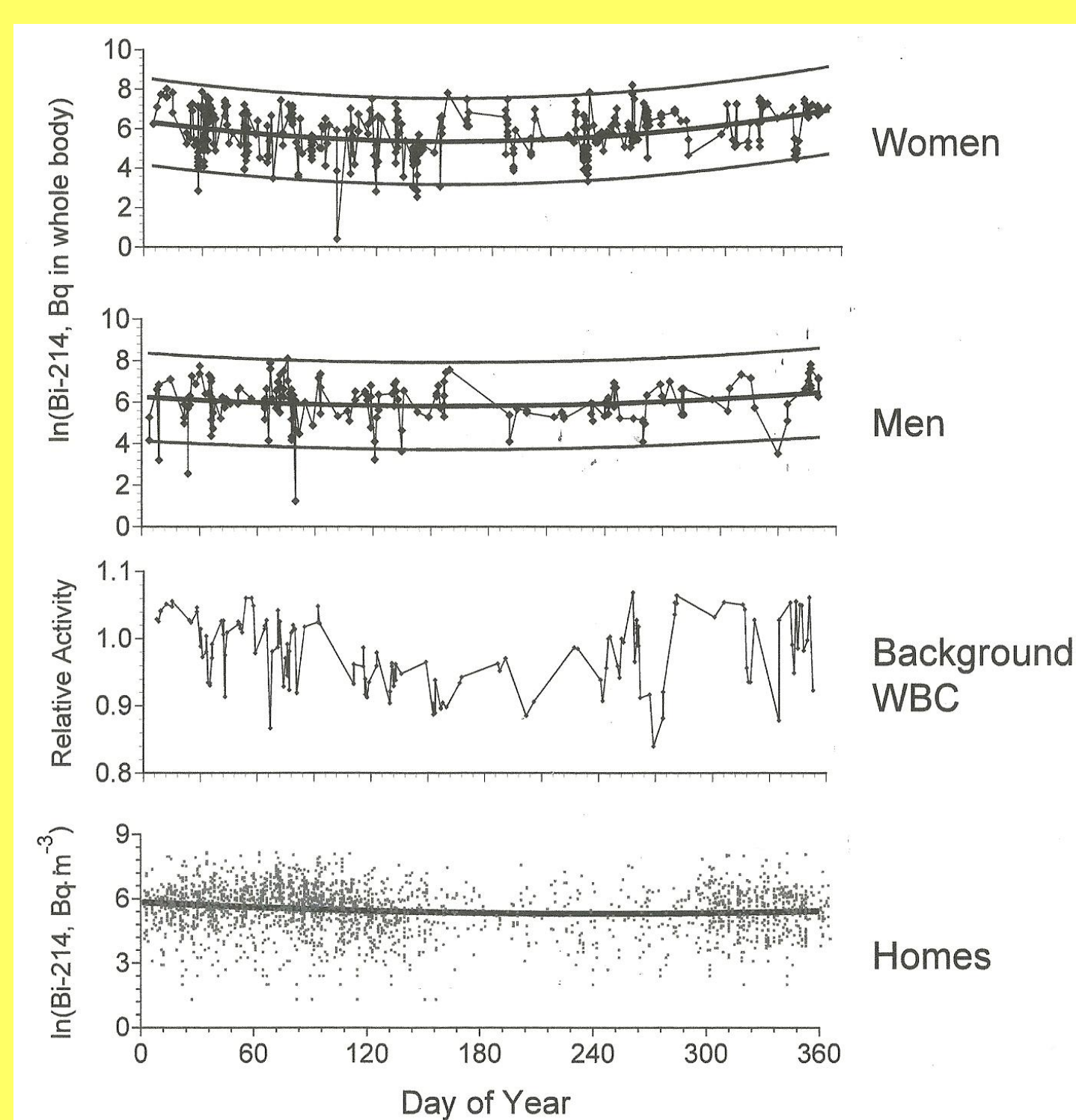
Po-210 Activity (Bq/g) in Female Mammary Cancer Tissue					
Control	Case #2	Case #5	Case #7	Case #8	Case #10
138	180	1,300	83	250	670

Breast cancer tissue ^{210}Po

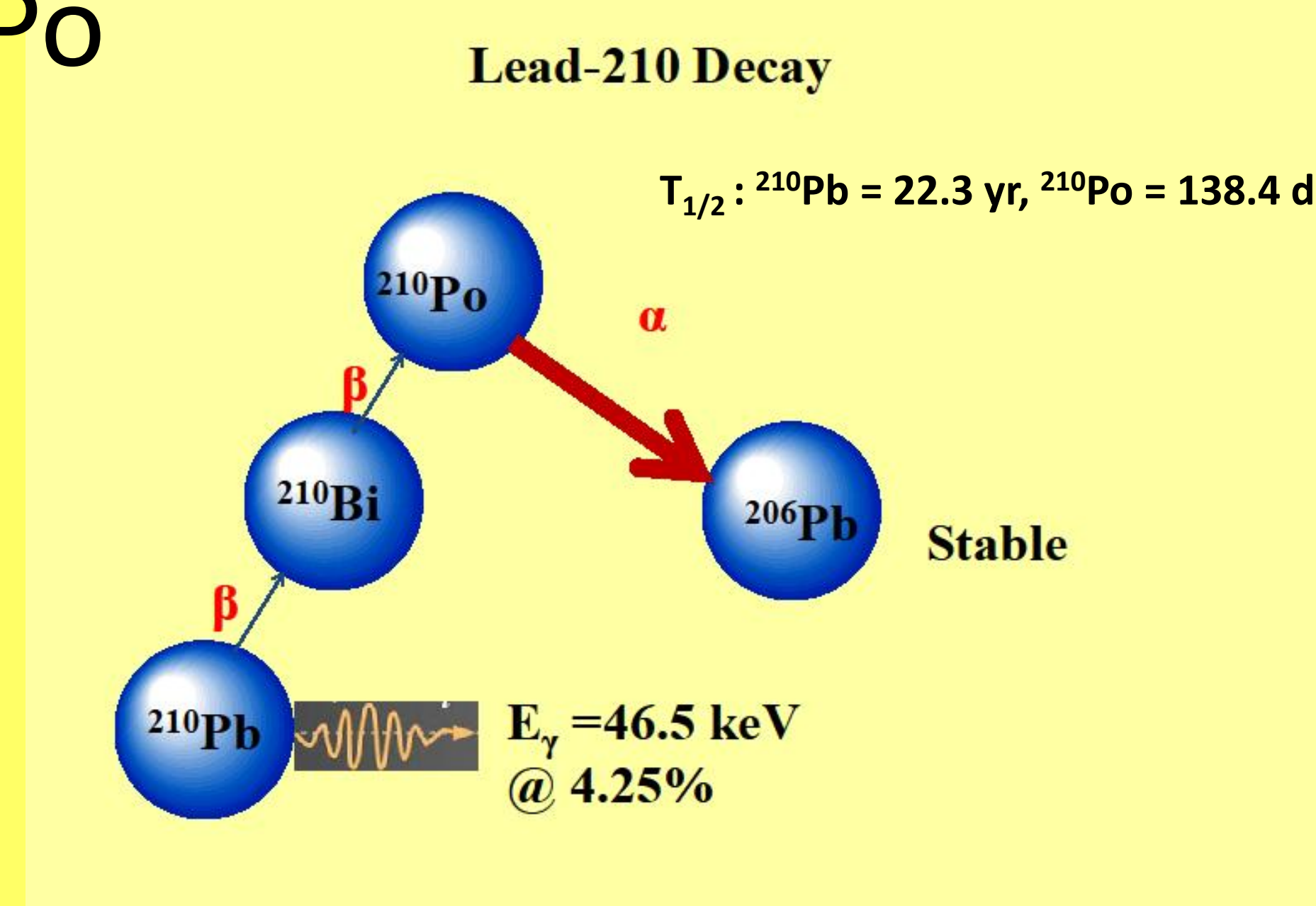


Nerve/myelin α -particle spectrum

Brain tissue ^{210}Bi & ^{210}Po



^{222}Rn & ^{214}Bi Seasonality



Lead-210 Decay:

The danger of the ^{210}Po alpha particle is enormous since it can kill over one hundred cells in any direction it goes. Furthermore, the recoiling nucleus may in turn be especially damaging to genetic material, since the positive ions ($^{206}\text{Pb}^+$) are chemically attracted to the net negative charge of DNA, causing the recoiling atomic nucleus to be in close proximity to the DNA with release of damaging free radicals.

We postulate U progeny are incorporated into/on combustion products (possibly nanoparticles) that are breathed in and become distributed throughout the body, including the central nervous system. The source of lead-210 and polonium-210 has not been determined.