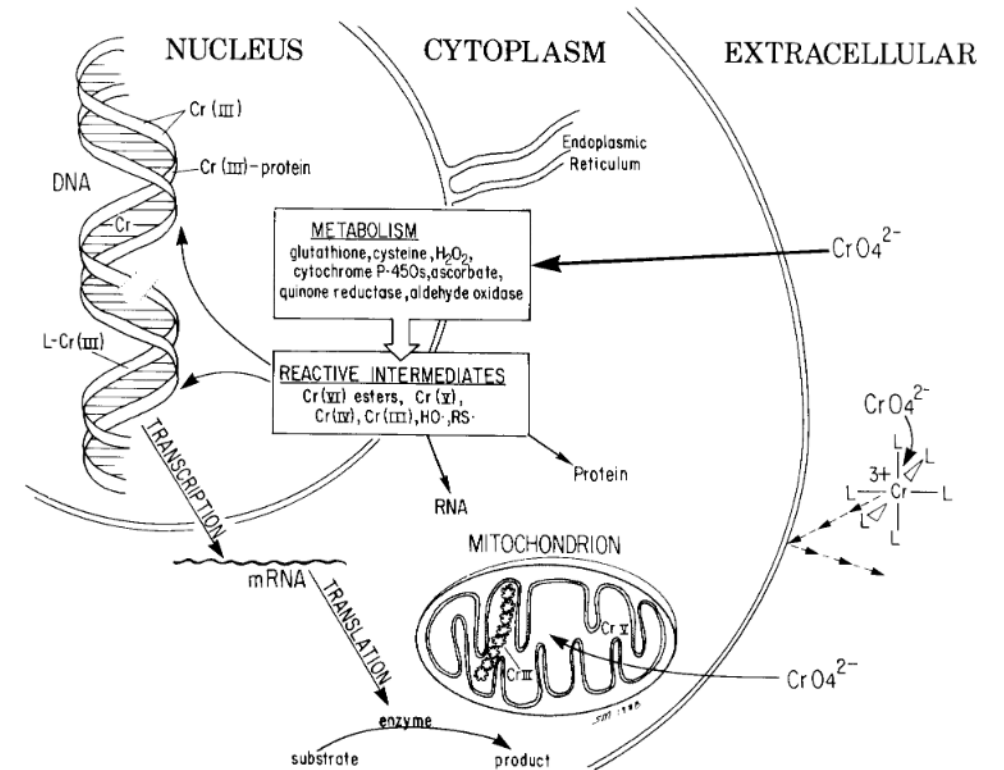


Karen Wetterhahn

- Cr(IV) enters cells through diffusion. Once it enters cells, enzymes and other cellular functions reduce Cr(IV) to Cr(III). When Cr(III) is reduced, it damages cells by crosslinking DNA and proteins. This damage leads to cancer.
- Dr. Wetterhahn got her PhD from Columbia university. She worked with dimethylmercury and chromium in a lab at Dartmouth college. Dr. Wetterhahn died from dimethylmercury unknowingly going through latex gloves.

- (1) Standeven, A. M.; Wetterhahn, K. E. Chromium(VI) Toxicity: Uptake, Reduction, and DNA Damage. *Journal of the American College of Toxicology* **1989**, 8 (7), 1275–1283. <https://doi.org/10.3109/10915818909009118>.



Fictional Story

- Karen Wetterhahn won the noble prize for discovering the effects of Cr(IV) on cells. With the noble prize money, she was able to buy better gloves and was able to handle dimethylmercury without any risks of it penetrating through her gloves. She continued to publish research on chromium and dimethylmercury until she retired.