

Cannabis Phytoremediation

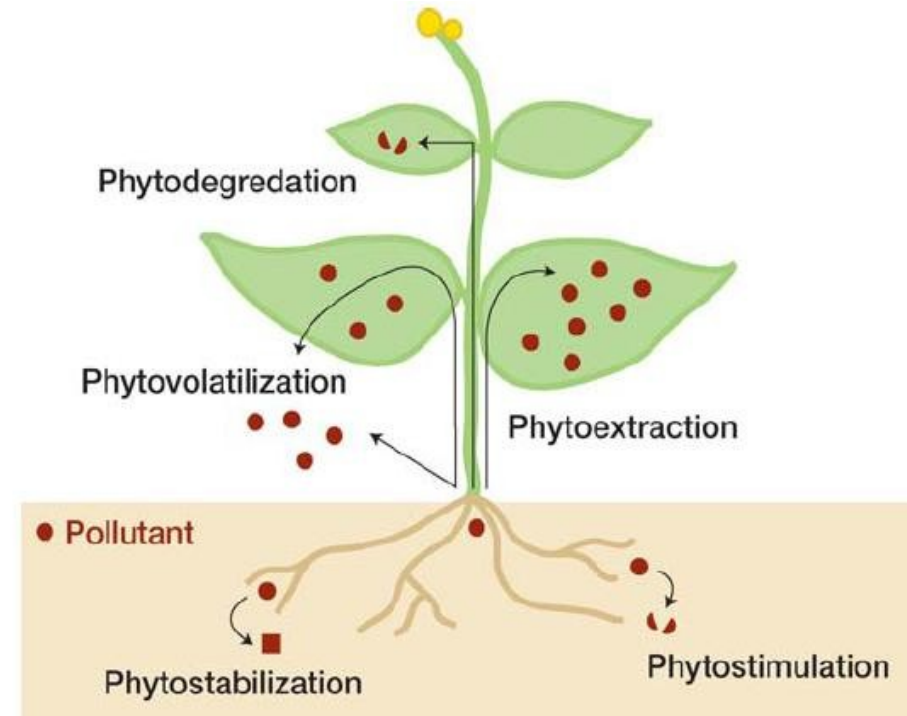
- Cannabis sativa L. was used in the clean-up of metal laden soils surrounding the Chernobyl disaster site.
- Tolerant plant for heavy metals such as Cadmium, Nickel, Cesium, and Lead



Phytoremediation: How it works

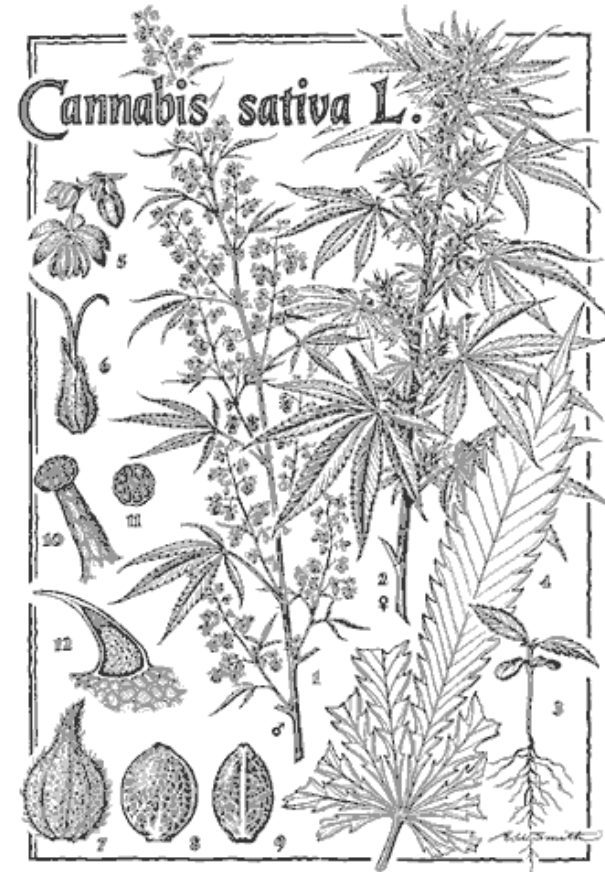
Phytoremediation can be broken down into 5 methods:

- Phytoextraction
- Rhizofiltration
- Phytostabalization
- Phytodegradation
- Phytovolatilization



Why Cannabis

- Hyperaccumulator of heavy metals with deep roots
- Large biomass = more storage room
- DNA methylation-protection of DNA against contaminants which prevents structural damage
- Quick growing season
- Can be used not only on radiation zones but in pesticide ridden soils, military exercise zones, and coast lines.
- Post harvest uses



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- Scheirer, Daniel C., and Kingsley Rowland Stern. "Chapter 5, 7." *Instructor's manual/test item file to accompany Introductory plant biology: eighth edition; [by] Kingsley Stern*. Boston: McGraw-Hill, 2000