

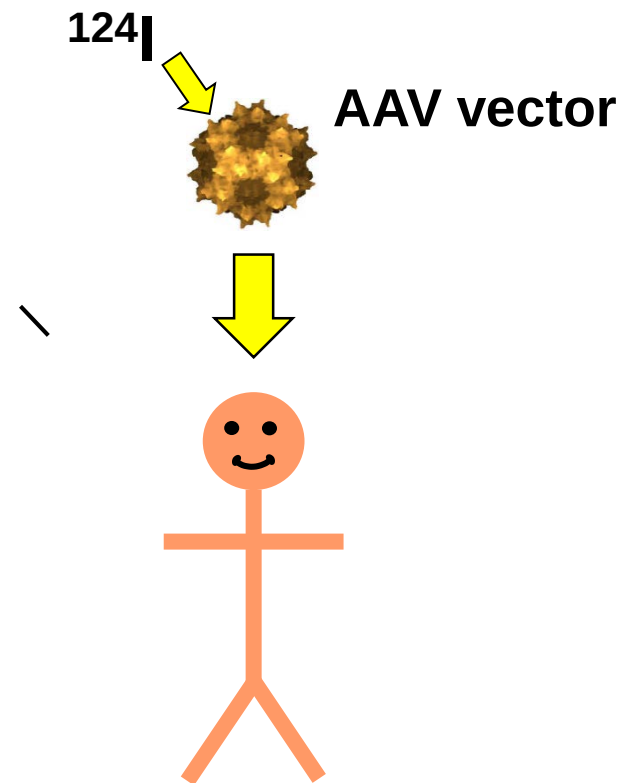
Assessment of AAV Vector Biodistribution Using PET Scanning of ^{124}I -Labeled AAV Vectors

Goal

- Non-invasive assessment of the biodistribution of AAV vectors

Strategy

- ^{124}I (cyclotron generated, half-life 4.5 days) covalent labeling of the AAV capsid
- Administration to nonhuman primates
- PET scanning



Why Not Use the Intravenous Route?

^{124}I labeled vectors administered intravenously to adult nonhuman primates

AAVrh.10



Day 2

AAV9



Day 2

Intracisternal Administration

**AAVrh.10,
intracisternal**



Day 2

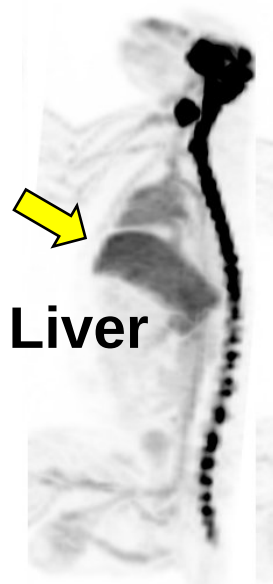
**AAV9,
intracisternal**



Day 2

Why Consider Immunosuppression?

**AAV9,
intracisternal
naïve**



Day 2

**AAV9,
intracisternal
anti-AAV9 immune**



Day 2