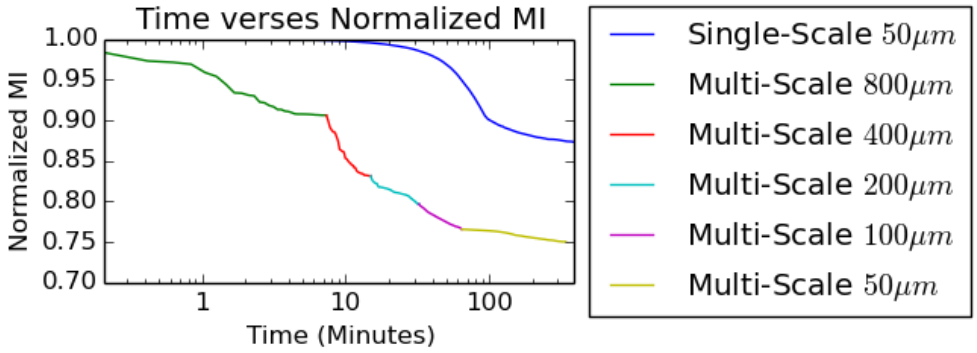
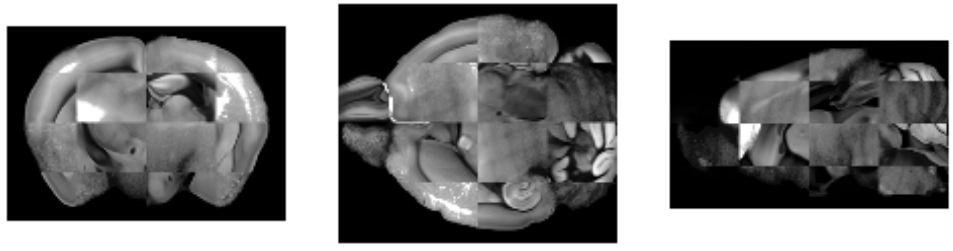
- Ran two LDDMM experiments with $\alpha = 0.02$
  - **Multi-Scale** experiment ran at $800\mu m$, $400\mu m$, $200\mu m$, $100\mu m$ and then $50\mu m$ level
  - **Single-Scale** experment ran at 50 μm level.
- Mutual Information (MI) was recorded at the end of each resolution level
- Mutual Information has been normalized to $[0, 1.0]$
  - $1.0 =$ Worst case (No registration)
  - $0 =$ Best case (Template $=$ Target)

Cocaine174

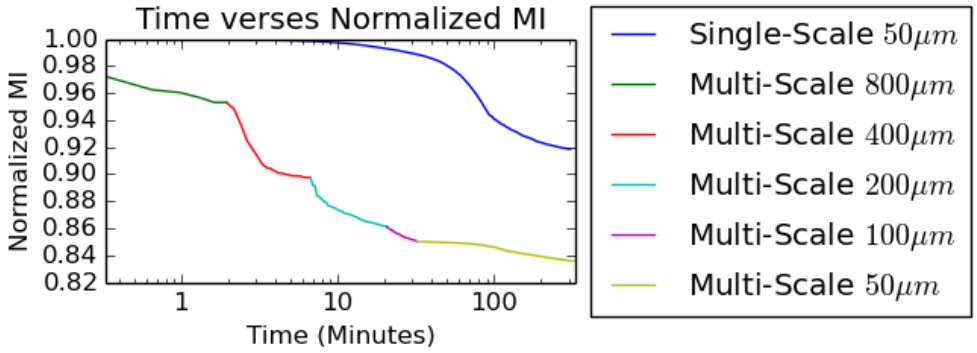


Single-Scale

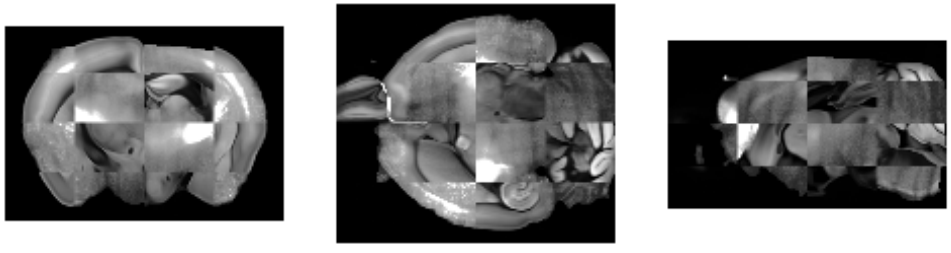


Multi-Scale

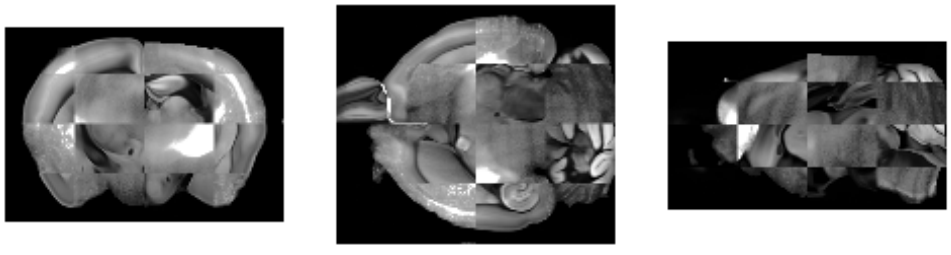
Cocaine175



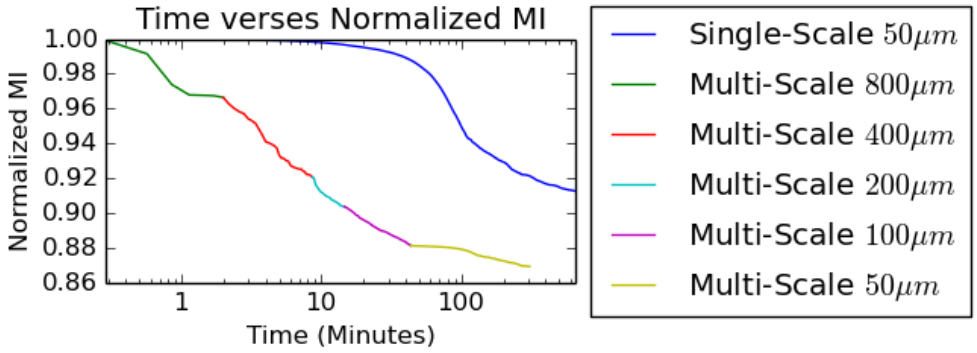
Single-Scale



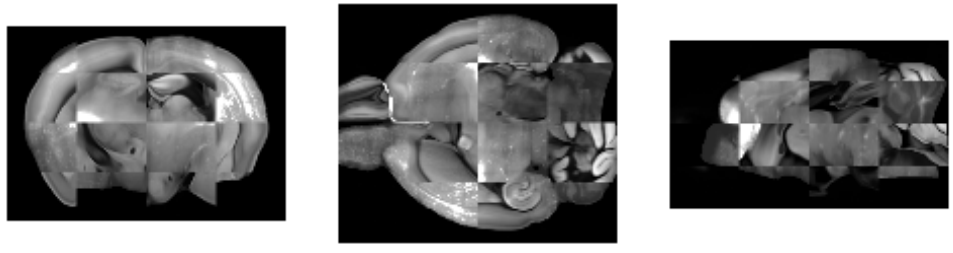
Multi-Scale



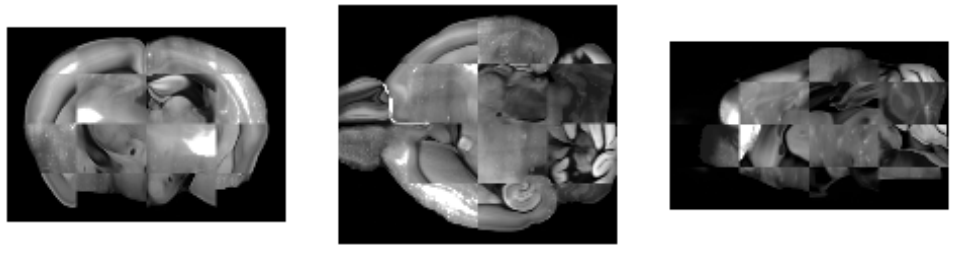
Cocaine178



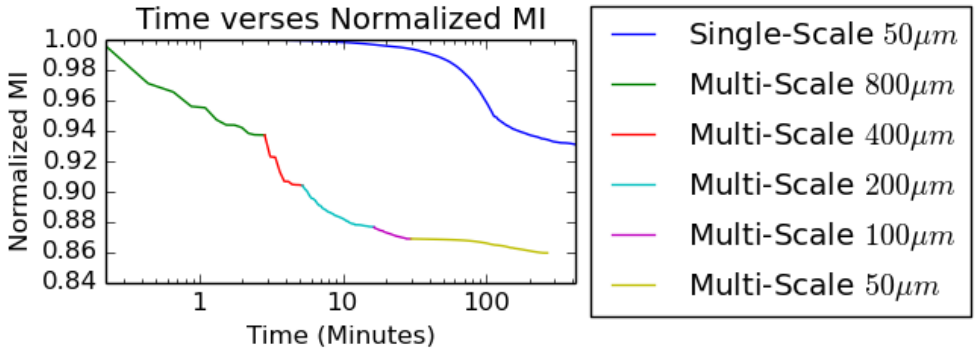
Single-Scale



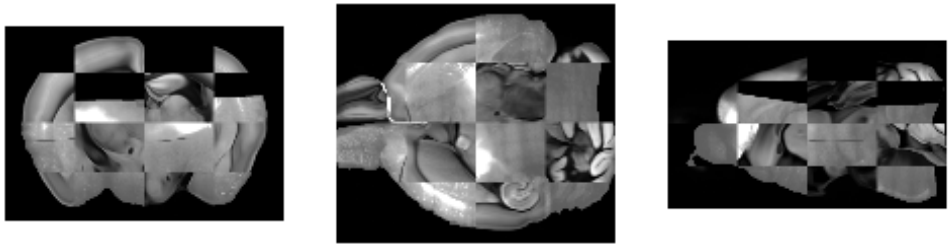
Multi-Scale



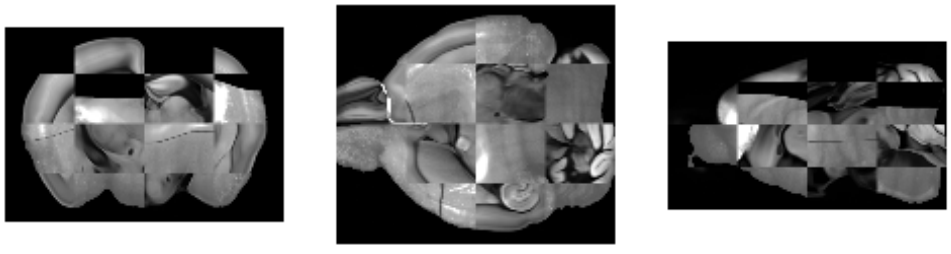
Control182



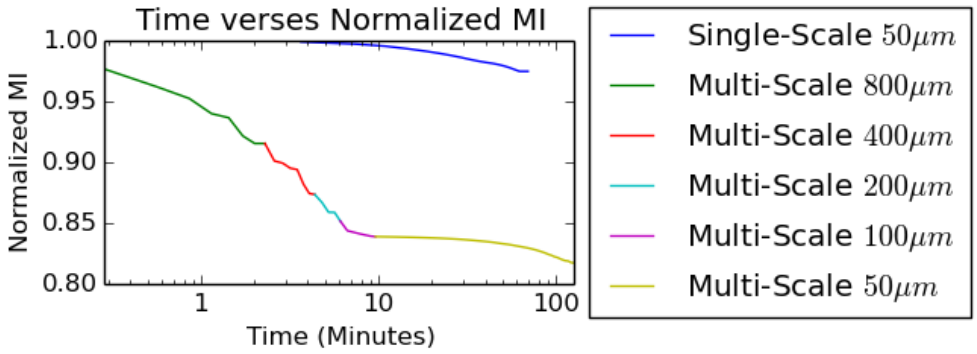
Single-Scale



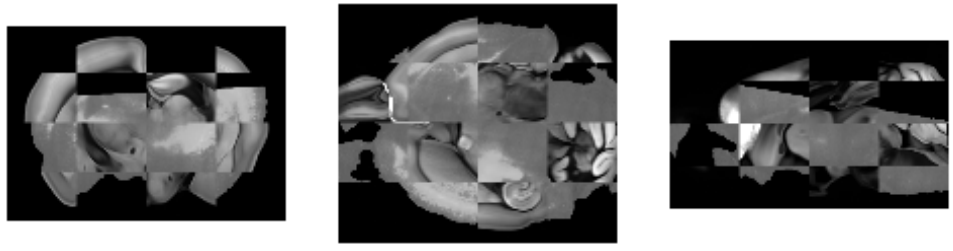
Multi-Scale



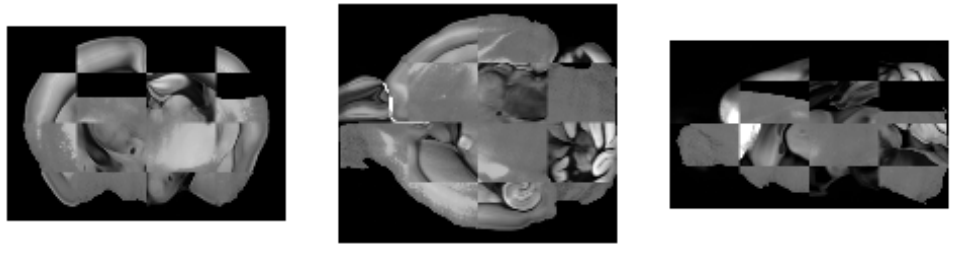
Control189



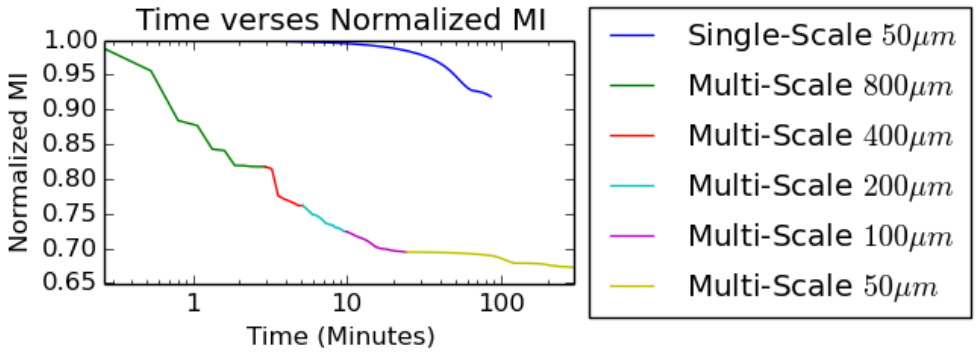
Single-Scale



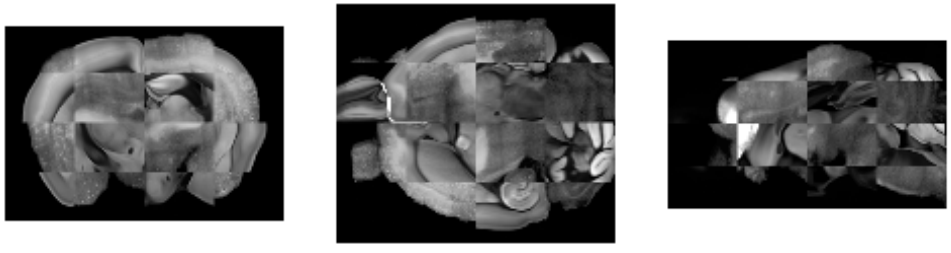
Multi-Scale



Control258



Single-Scale



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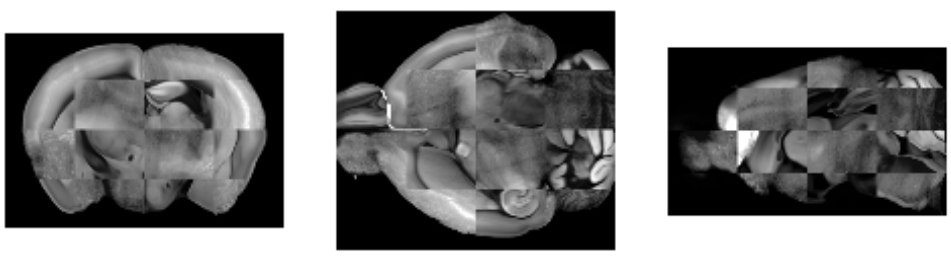
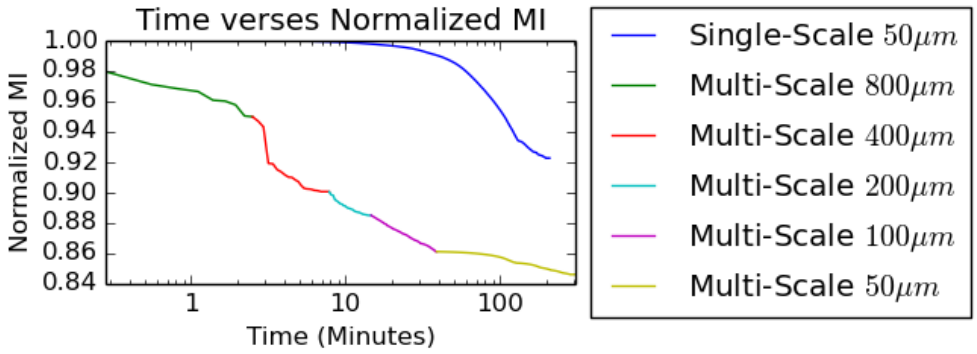
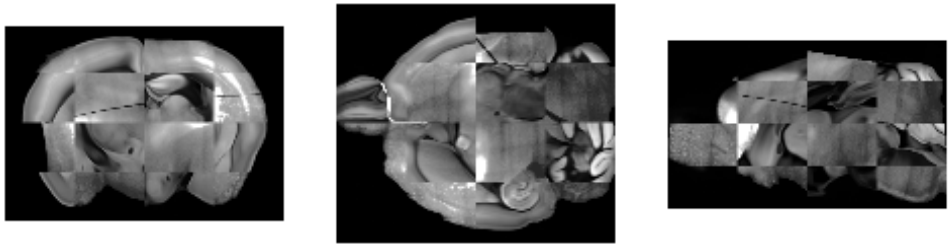


Fear187



Single-Scale



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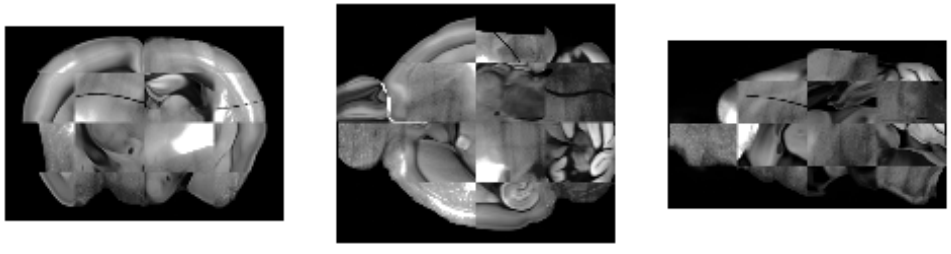

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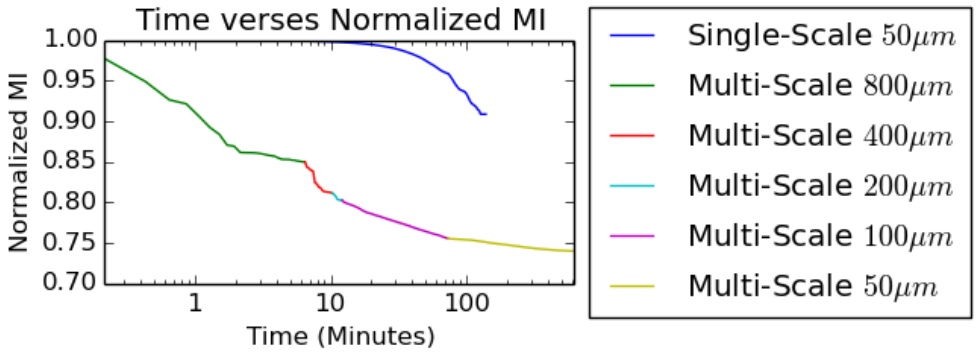
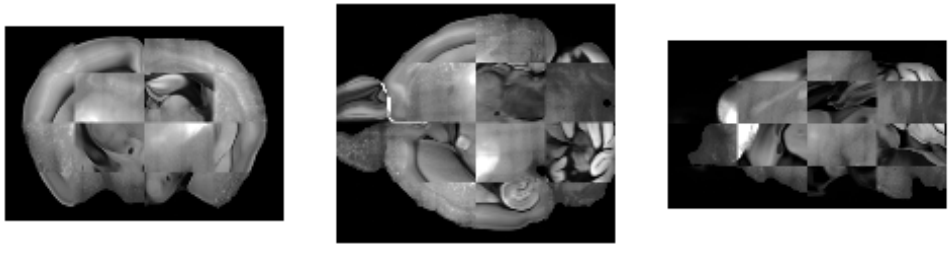
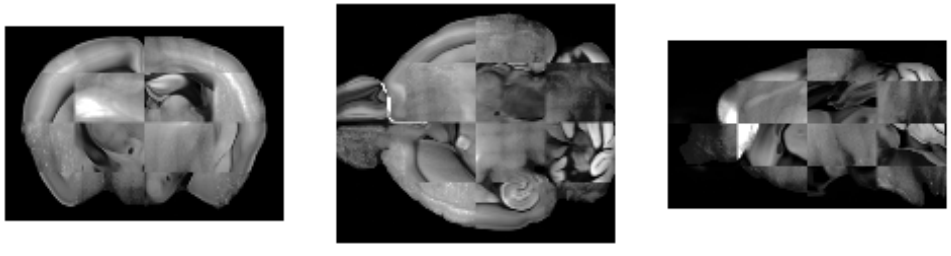


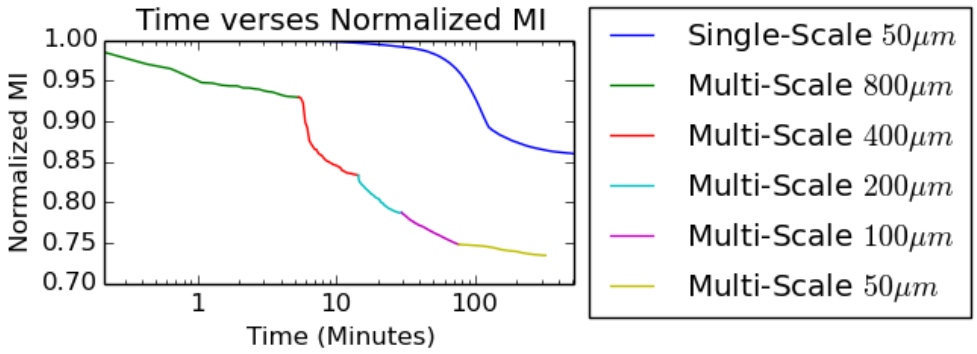
Single-Scale



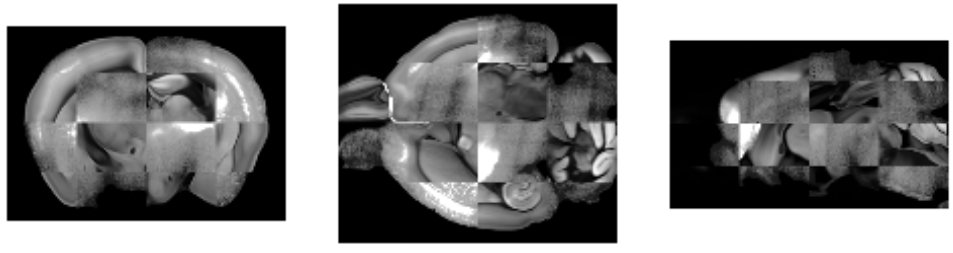
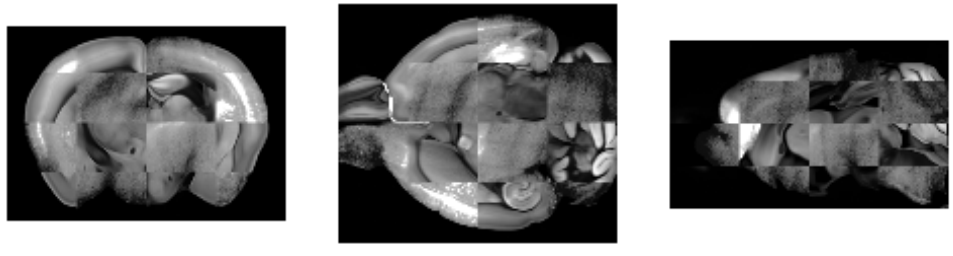
Multi-Scale



Fear199



Single-Scale



Multi-Scale