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Toward a computational framework for cognitive biology: Unifying approaches from cognitive neuroscience and comparative cognition

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## Highlights

- Cognitive science needs quantitative models bridging between neuroscience & cognition.
- Computational models should explain both similarities and differences between species.
- Most aspects of neural function are broadly shared across species.
- Single neurons are complex computational devices, with a tree-like form.
- “Dendrophilia” – our proclivity for tree structures – is central to human cognition.

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