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**Matthew Hedden\*** (mhedden@math.msu.edu), East Lansing, MI 48823, and **Liam Watson**. *On the geography and botany of Floer homology.*

I'll survey some of what is known about the realization (geography) and faithfulness (botany) questions for Floer homology. The first asks: given a group, which knots or 3-manifolds have this group as their Floer invariants? The second asks: if a group is realized as the Floer homology of some knot or manifold, how many other knots or manifolds are there with the same invariants? (Received August 13, 2012)