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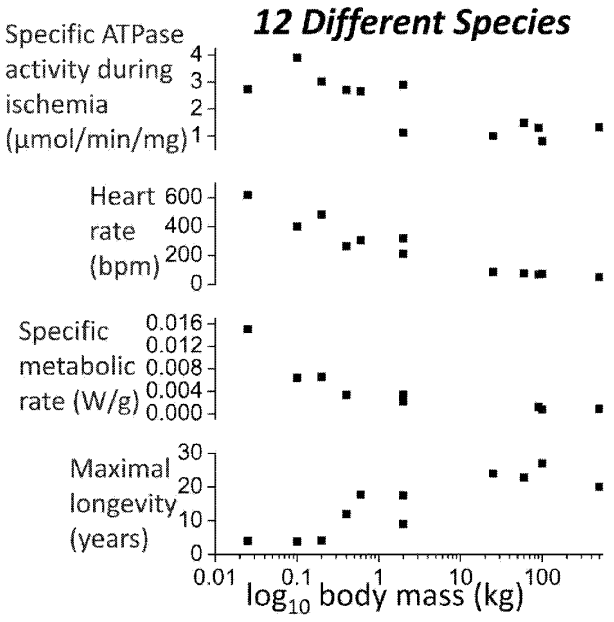
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(54) **Title:** INHIBITORS OF ATP SYNTHASE - COSMETIC AND THERAPEUTIC USES

FIGURE 4



(57) **Abstract:** With supporting experimental data, this disclosure teaches that IF1 protein activity is a molecular determinant of lifespan, therein explaining why different species have different maximal lifespans, and it teaches a IF1 protein/fragment (or sequence variant thereof), or a fusion protein thereof, optionally a fusion protein comprising a Cell Penetrating Peptide (CPP) sequence, as an agent to slow/delay/reduce aging in a subject, optionally as a component of a cosmetic, optionally to treat an age-correlated disease/disorder. Moreover it teaches other inhibitors of F1F0 ATP hydrolysis, including small molecules, of a number of different scaffolds, for this purpose. Furthermore, with supporting experimental data, it teaches that compounds that slow the ATP-hydrolysing mode of ATP synthase are useful for treating various diseases and disorders, including cancer, particularly cancers that utilise the Warburg effect.

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