

the Ariadne clew, "A mass of living protoplasm is simply a molecular machine of great complexity, the total results of the working of which, or its vital phenomena, depend, on the one hand, on its construction, and, on the other, upon the energy supplied to it: and to speak of 'vitality' as any thing but the name of a series of operations is as if one should talk of the horology of a clock." [Sensation.] You are shocked at this proposition, and therefore I have not spoken in vain. We will consider next week this astounding *non sequitur*. If Hermann Lotze, the first philosopher of Germany, were on this platform to-day, he, in the name of the axiom that every change must have a sufficient cause, would thus and thus [tearing the paper] tear into shreds the materialistic or mechanical theory of the origin of living tissues and of the soul. [Applause.]