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Molecular machines are ubiquitous throughout biology, with muscle movement just one of their almost limitless functions.

Principal researcher Mr Leigh, Forbes Professor of Organic Chemistry at Edinburgh University, said: "Although man's understanding of how to build and control molecular machines is still at an early stage, nanoscale science and engineering could have a life-enhancing impact on human society comparable in extent to that of electricity, the steam engine, the transistor and the internet.

"Nature uses molecular machines in virtually every biological process and, when we learn how to build and control such structures, we will surely find that they have the potential to revolutionise molecular-based technologies, from health care to 'smart' materials."



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