**The Science of Transhumanism: Are we nearly there?**

**Abstract:** Transhumanism looks to utilise science and technology to move humans beyond the limitations of their natural form. Recent scientific advances have, for the first time, presented plausible genetic interventions for the directed evolution of humans. In separate developments, electromechanical innovations, including miniaturisation of components and improvements in bio-compatible materials, have seen breakthroughs in brain-machine interfaces (BMIs) that potentiate a cybernetic dimension, in which mechanical devices would be under the direct control of the mind. This article offers insight into the most important of these recent advances, with particular emphasis on genome editing and therapeutic uses of BMIs in which the same technology might be employed for enhancement.

**Keywords:** Augmentation, Brain-Machine Interface, Crispr, Cyborg, Genome Editing

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