2019 年 4 月 26 日 基因编辑究竟是上帝之手,还是潘多拉魔盒? He perils of drug abuse The promise and perils of synthetic biology n巨大的超过 累 险性险场 For the past four billion years or so the only way for life on Earth to produce a sequence of DNA (a gene) was by copying a sequence (it Most conflicts arise /skræmbl/ & scrambled eggs from ignorance. already had to hand. Sometimes the gene would be damaged or scrambled, 乳的效的,现场的 冲突都 the copying imperfect or undertaken repeatedly) From that raw material 一到集员到来, 各材料(批准交叉的集图) arise Parose the glories of natural selection. But beneath it all, gene begat gene. beach Problems have arisen. in the more Problems have arisen. in the more with the problem. /biget/v导致成为...的父亲生下sb He described the events of that day in sequence. Sequence 更强调事情的名词表, eg. 他将心后顺车描述了那么的情况 度和洪始从和史容为恢复 Series 对于允允川及李乳没有那么严格的要求,a series of accidents 一进半的事故但事故发生的川及李乳公那么 That is no longer true. Now genes can be written from scratch and edited repeatedly, like text in a word processor. Immune cells can be told 文字处理器/kovks/ to follow doctors' orders; stem cells better coaxed to turn into new tissues; fairtalaiz/ 大切的 如 Y 来 的 决场 地方 生物的组 fertilised eggs programmed to grow into creatures quite unlike their parents. Bees fertilise v.快多格,使多多使物 De the flowers by The scale of the potential changes seems hard to imagine. To harness the bringing pollen. v.控制;利用…的动力 ** Try lot the promise and minimise the peril, it pays to learn the lessons of the past. 做城林何图的处 eg. His friends coaxed him into talking about his eg. He built his own company from scratch own problems.在网友的动论和诱导下,他说出到 他的起家建习自己的公司. eg Harness the sur's rays as a source of energy 利用不阳也作为能量的来源 指的とくなり The earliest biological transformation-/da, mestikei [n/ n.3n/也,3n]美 what was hitherto the biggest change in how humans lived their lives. This adv.这个处止。Astar allowed new densities of settlement and new forms of social organisation:



the market, the city, the state.

Synthetic biology will have a similar cascading effect, transforming humans' relationships with each other and, potentially, their own biological nature. The ability to reprogram the embryo is, rightly, the site of most of today's ethical concerns. How humans may choose to change themselves biologically is hard to say; that some choices will be controversial is not for the say.

It will challenge the human capacity for wisdom and foresight. It might

defeat it. But carefully nurtured, it might also help expand it.

设 Synthetic Biology is

for-何朔 sight 圣叙