

I] Responsible Screening Practices---

According to ~~T~~the SynBio Report, ~~asserts that many though not all~~ commercial gene synthesis firms screen sequences before ~~actually synthesizing~~ DNA synthesis. ~~This~~ Such screening involves ~~the comparison of a~~ sequence ~~to~~ ~~with~~ known “dangerous” sequences, ~~i.e.,~~ sequences ~~which that~~ confer pathogenicity/pathogenicity, or ~~which could increase enhance~~ the ~~stabilities stability~~ and persistences of the engineered organism in the environment. Routine ~~S~~screening is ~~routinely carried out accomplished by~~ means ~~using~~ of commercially available softwares ~~such as like the Craic Blackwatch software~~. ~~However,~~ ~~this~~The system is ~~not not however~~ foolproof, and ~~updates again and again must always be made to the~~ softwares ~~must be continually updated to so that include~~ recently ~~uncovered identified~~ “dangerous” sequences ~~are included~~ in a screening parameters.

Comment [A1]: In American English, place a comma after the Latin abbreviations *i.e.* and *e.g.*

Comment [A2]: The text alongside has been revised to convey the intended information more concisely.

Such ~~s~~Screening practices ~~of this type~~ have ~~evolves evolved~~ independently ~~of~~ regulatory intervention, and ~~an~~ ~~they somehow represent~~ industry standards ~~they represent somehow~~. The ~~next next step~~ logically ~~are,~~ ~~step is~~ to enforce and evolve ~~these such~~ standards through ~~meaning of~~ appropriate regulation. This can be ~~done achieved~~ on ~~bi two~~ levels:

- ~~The b~~Biosafety legislation ~~of in~~ various international ~~nations jurisdictions~~ could be ~~corrected amended~~ to require gene synthesis firms and research ~~organisations organizations~~ operating within their territories ~~of jurisdiction to carry out conduct~~ screening for dangerous sequences, ~~to the in accordance~~ ~~with the~~ international industry standard (called the Best-Practice Procedures in the SynBio Report). An independent ~~regulate regulatory~~ body ~~may could be authorised authorized by legislation~~ to determine the ~~very large key~~ aspects of the screening programme, ~~thus allowing which would allow~~ the standard to grow ~~big~~ as more information becomes available. ~~This~~ Such a regulatory body ~~should would require~~ ~~need to be~~ confer with research, ~~ers,~~ universities, and all other ~~interested parties stakeholders~~ before a novel standard is ~~evolved developed~~ and ~~being~~ imposed on companies. ~~Consequently,~~ ~~t~~The ~~regulate~~ ~~regulatory~~ body ~~can thus could~~ be empowered to generate a “watching list” of potentially dangerous sequences, which can ~~then~~ be incorporated into standard screening software.

Comment [A3]: In American English, *z* is used in words such as *organization* or *characterization*.

Comment [A4]: In academic writing, information is presented with accuracy and conciseness. Formal language is a hallmark of academic English. One way to ensure conciseness in expression is converting phrasal verbs to formal words. For example, *carried out* can be replaced with *performed/conducted* or *looked into* can be replaced with *investigated/examined*.

- The Cartagena Protocol on Biosafety, a protocol of the Convention on Biological Diversity, may serve ~~serve~~ as the best template ~~to~~ ~~regulating~~ ~~regulat~~ synthetic biology ~~on~~ ~~at~~ the international level.

SAMPLE