

I] Responsible Screening Practices---

According to ~~T~~the SynBio Report, ~~asserts that~~ many ~~al~~though not all commercial gene synthesis firms screen sequences before ~~actually~~-synthesizing DNA. ~~This~~-Such screening involves~~ing~~ comparing a sequence ~~to with~~ known ~~“-dangerous”~~ sequences ~~s~~ i.e. ~~sequences which that~~ confer ~~pathogennicity~~pathogenicity; or ~~that which~~ could ~~increase~~enhance the ~~stabilities~~stability and persistence~~s~~ of the engineered organism in the environment. Screening is routinely ~~carried out~~performed ~~by means of using~~ commercially available softwares ~~such as like~~ the Craic ~~-Blackwatch~~software. ~~However, t~~he system is ~~not~~ ~~not however~~ foolproof~~;~~ and updates ~~again and~~ again ~~must be always~~continually ~~be~~made to the softwares to include recently ~~uncovered~~identified ~~“-dangerous”~~ sequences in ~~a~~ screening parameters.

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

**Comment [A2]:** 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*.

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

- ~~The~~ ~~bi~~biosafety legislation ~~of in~~ various international nations 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 ~~conform 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 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~~he ~~regulate~~regulatory body can ~~thus~~be empowered to generate a ~~“-watching list”~~ of potentially dangerous sequences, which can then be incorporated into standard screening software.
- The Cartagena Protocol on Biosafety, a protocol of the Convention on Biological Diversity, may serve ~~serve~~as the best temp~~-late~~ ~~to~~for the regulation of synthetic biology ~~on at~~ the international level.

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

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