

I] Responsible Screening Practices

According to the SynBio Report, ~~asserts that~~ many although 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 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~~ the 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~~ the ~~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 template ~~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*.

All material in this document is the intellectual property of Crimson Interactive Pvt. Ltd. The use of information and content in this document in whole or in part is forbidden unless express permission has been given in writing by Crimson Interactive Pvt. Ltd.

www.enago.com | www.enago.jp | www.enago.com.tr | www.enago.com.br | www.enago.de | www.enago.tw | www.enago.cn | www.enago.co.kr | www.enago.ru

SAMPLE