







IPU Regional Seminar on Engaging Parliaments of the Pacific Region in the implementation of SCR 1540

Regional Cooperation and awarenessraising to promote the Biological Weapons Convention

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Why is awareness-raising important for... disarmament | international weapon regimes | the **Biological Weapons Convention?**









The world is overarmed and peace is underfunded

OpEd by United Nations Secretary-General Ban Ki-Moon 27 August 2012 | <u>Eurasia Review</u>





For More Information on Military Expenditures

The Stockholm International Peace Research Institute (SIPRI)

The United Nations Report on Military Spending

Disarmament - A Basic Guide (see chapter 2 on Global Military Expenditures)

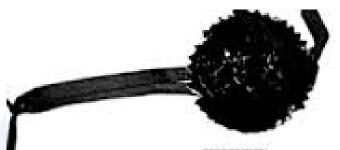








How is this relevant to the Biological Weapons Convention?



CONVENTION

ON THE PROBBITION OF THE DEVELOPMENT, PRODUCTION AND STOCKPILING OF BACTERIOLOGICAL (BIOLOGICAL) AND TOKIN WEAPONS AND ON THEIR DESTRUCTION

The States Parties to this Committee.

Determined to not with a view to arbitroing effective progress summeds proceed and complete disarrament, including the problettion and electracion of all types of warpons of man detroction, and menimed that the problettion of the development, production and stockpiling of chemical and bacteriological (hiological) weapons and their elimination, through affective measures, with facilitate the arbitrosmost of general and complete disarraments of process and complete disarraments under arbitrosmost makes and constructions.

Recognising the important significance of the Protocol for the Probabilities of the Use in War of Aughtralizing, Protocots or Other Gazas, and of Besteeloingiesi Methods of Warfam, signed as General on 17 June 1923, and conscious also of the contribution which the said Protocol has already made, and continues to make, in mitigating the horrors of war,

Realisting their subseness to the juliciples and objectives of that









Infectious diseases DO NOT respect borders (and do not require passports)

INFECTIOUS DISEASES AN OVERVIEW



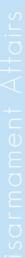








New technologies and science developments relate to the Biological Weapons Convention and they can lead to both: positive use and potential misuse





For example... DNA

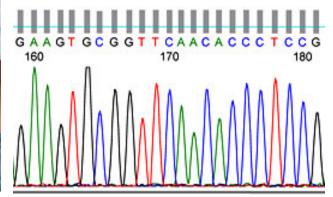
What is DNA?













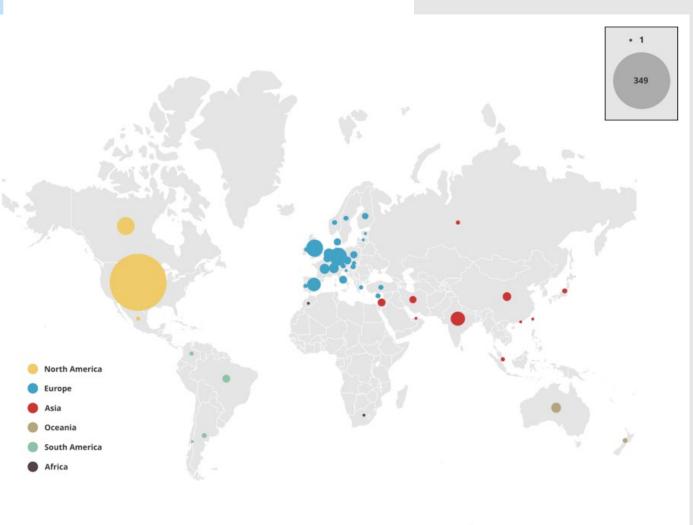
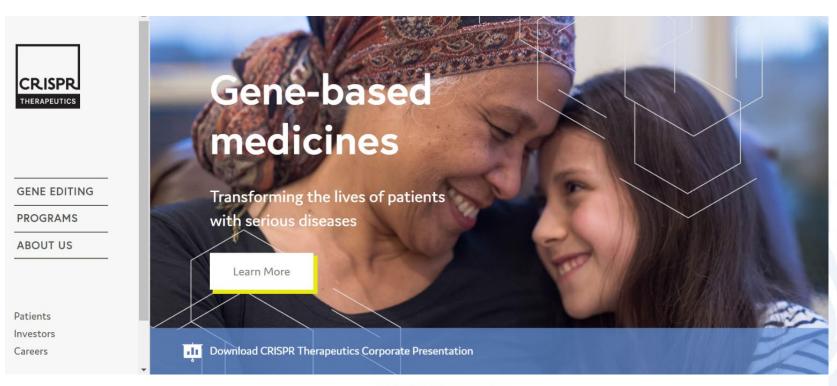


Figure 1: World map of genomic companies and research institutes (year 2018).

By 2022, the genomics business is expected to be worth: 24 billion USD **Health and** environmental research have become main targets **New targets:** Start ups, small companies and the general public. Why? Low **prices** for DNA sequencing: technology and instruments



1. Companies that offer Gene Therapy (editing)



CRISPR Therapeutics

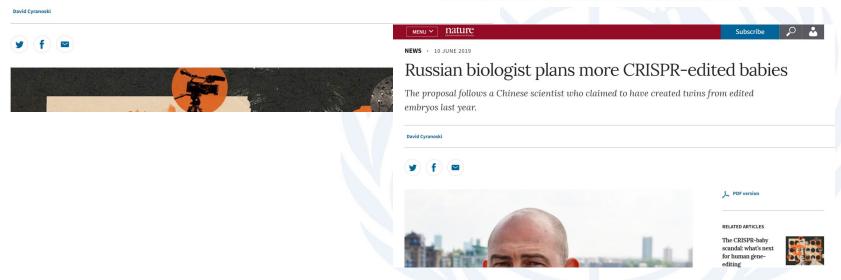
www.crisprtx.com/our-programs/our-therapeutic-approach.php ✓ ▼
We are focused on the treatment of somatic (non-germline) cells, analogous to the approach taken by more traditional and established gene therapy methods.



1. (not only) companies that offer Gene Therapy (editing)



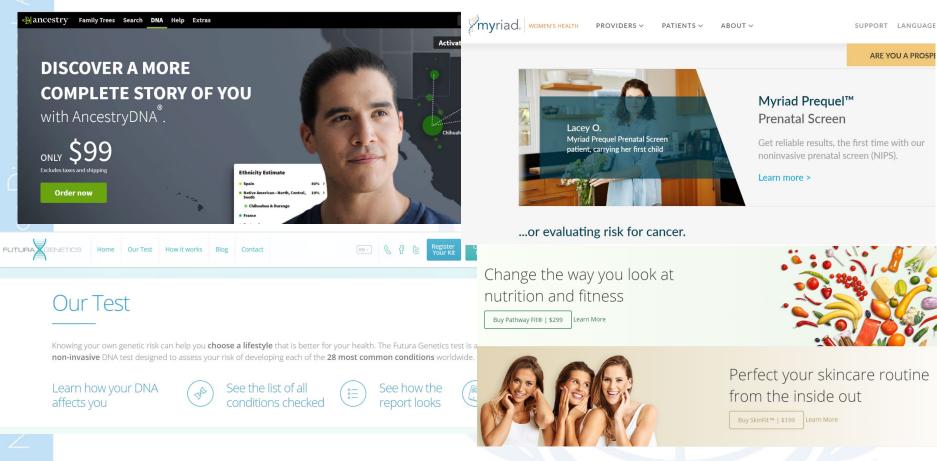
He Jiankui presented a slide at a Hong Kong, China, genome-editing summit that showed DNA sequences from the edited CCR5 genes in the twin girls. NATIONAL ACADEMIES/FLICKR (CC BY-NC-SA 2.0)



Embryo 1 (Lulu)



2. Companies that offer direct consumer genetic testing





3. Companies that sell D0-It-Yourself Biology

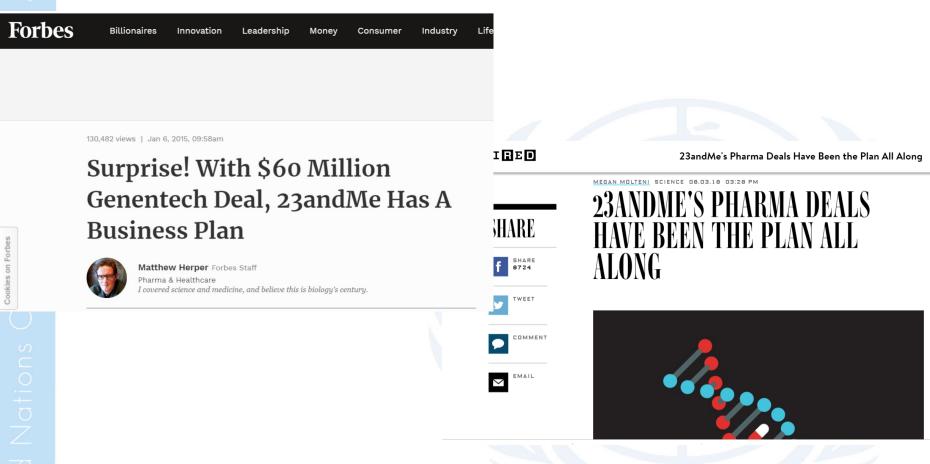


At Amino Labs, our goal is to make teaching genetic engineering accessible, fun and affordable.





4. Companies that buy/sell genetic data





5. Companies doing Synthetic Biology

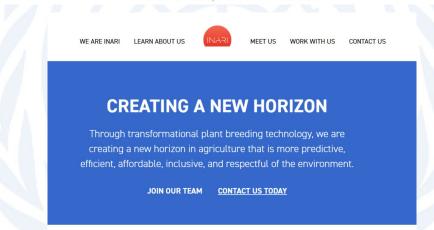
- ☐ Synthetic biology applies engineering, design, and computer science principles to biology, usually at the DNA level.
- companies raised 3.8 billion USD.
 Governments invested 50 million in them.

In 2018, 98



A path to better medicines

With our novel DNA base pair, we are designing and building protein therapeutics to create an entirely new generation of tailored medicines to improve how we treat disease.











Do you think that any of these technologies can be used as a channel to create a bioweapon, even in states with no intent to do



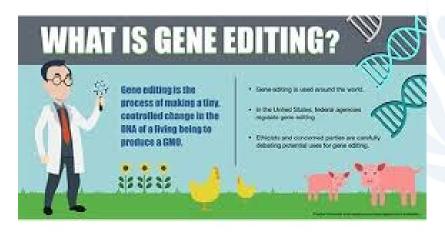


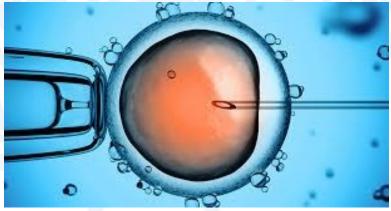




Main Takeaways

Advances in science and technology have moved at an unprecedented pace in the last decade. Developments that were unthinkable just years ago [such as gene editing and biotechnology advances] are currently underway and could have a very significant impact on the BWC and the global community













How is this relevant to most United Nations Member States?













































Disarmament and the Sustainable Development Goals











How does the UN raise awareness and promote regional cooperation on the BWC?



EU Council Decision 2019/97 -At a glance-

- 1. Promoting universal adherence to the BWC
- 2. Developing national capacity to implement BWC
- 3. Fostering biosecurity networks in the Global South
- 4. Supporting the Ninth BWC Review Conference
- 5. Preparedness to prevent and respond to a biothreat
- 6. Developing awareness-raising and engagement tools



Universalisation

Objective

Promoting universal adherence to the BWC by encouraging States not party to better understand the benefits of joining the BWC

Activities

Follow-up outreach will continue to support universalization activities conducted under EU Council Decision 2016/51

- ✓ Four in-country universalization activities over the course of 2020-2021 (for the Pacific, Africa and Haiti)
- √ Two regional workshops for BWC States not party (for the Pacific and Africa)



Regional Universalisation Workshop for the Pacific

Nadi, Fiji, 27-28 July 2017





Universalisation Workshop for IGAD

Djibouti, Djibouti, 3-4 October 2018





AU-UNODA Universalisation Workshop

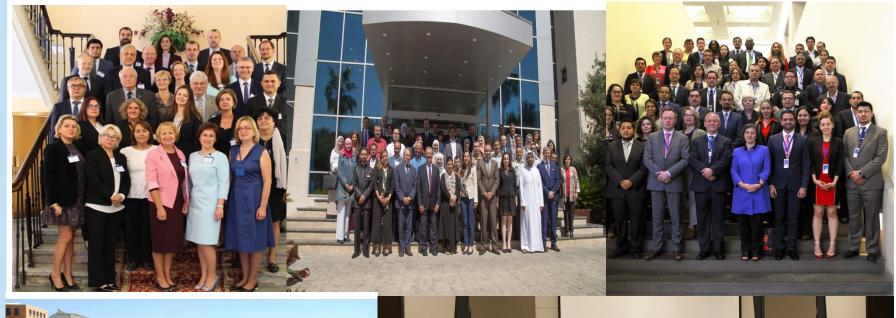
Addis Ababa, Ethiopia, 11-12 December 2018





Science and Technology Workshops on the Biological Weapons Convention

2017-2018







The Art of Multilateral Diplomacy

What the UN/diplomats/experts say





The Art of Multilateral Diplomacy

What decision-makers/officials hear





Building the bridge: communicating international treaties for decision-making











Main conclusions

Continued education and outreach = imperative

[including awareness-raising at the community level and in local languages on topics such as dual-use research, biosafety and biosecurity]









Main conclusions

South-South cooperation is key = more transferable + relatable experiences









Main conclusions

Preparedness is the best and most effective way to prevent biohazards, to handle the outbreak of infectious disases, and the emergence of epidemics



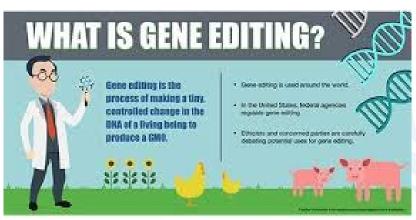


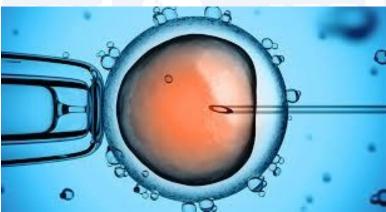




Key Takeaway

Biosecurity is a shared [collective] responsibility: at the international, regional and national level!











For more information...

www.unog.ch/bwc

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