



Knowledge Security

Erasmus+ HO dag

4 december 2025

Intern gebruik







Session outline

 Introduction on knowledge security by Jonas Lammertink, National Contact Point for Knowledge Security

- Panel discussion:
 - Jonas Lammertink, Advisor International Innovation, National Contact Point for Knowledge Security
 - Joy Konstantopoulos, Programme manager knowledge security, Erasmus University Rotterdam
 - Sabine Amft, Strategic advisor international partnerships, The Hague University of Applied Sciences
 - Febe Piccinin, President of the Erasmus Student Network the Netherlands



Intern gebruik









Starting points knowledge security

- Country neutral
- Open where possible, closed where necessary



What is knowledge security?

1. Preventing unwanted transfer of sensitive knowledge

2. Preventing unethical collection or application of knowledge

3. Countering foreign interference in research and education



1. Preventing unwanted transfer of sensitive knowledge

When is knowledge sensitive and its transfer unwanted?

- > When knowlegde could undermine our nationale security if it ends up in wrong hands
 - > E.g. military and dual-use knowledge, or knowledge about critical infrastructure



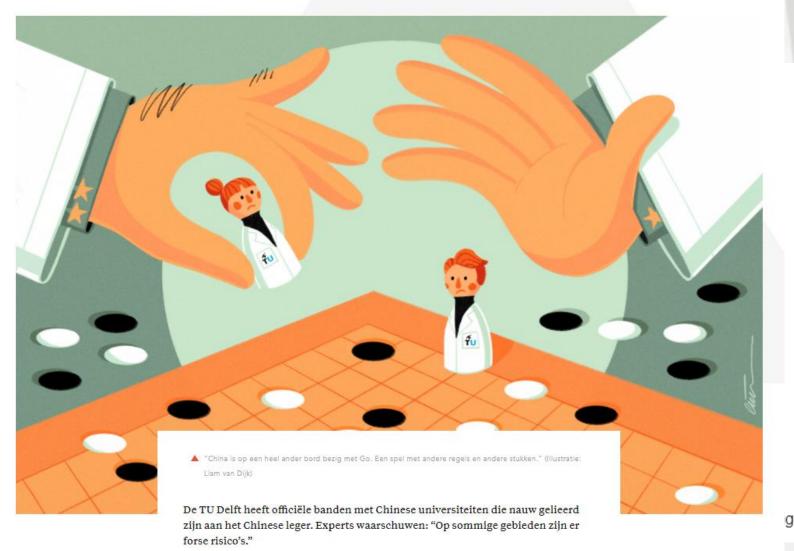


Hoe de TU Delft onbedoeld het Chinese leger een handje helpt

NOS Nic Aangep

Vert

Het mil verbod griepvi een Eu is terec aanvra



en studie hebben aandrijven van en.

ben aangekocht er gde vergunningen.



2. Preventing unethical collection or application of knowledge

When is knowledge collected or applied unethically?

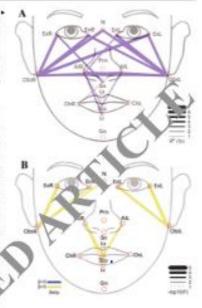
> When human rights are not resepected

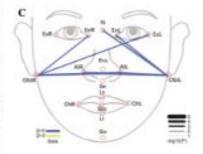
#urius genetics 2019 135981-989

Fig. 2. The genetic effects on facul morphology in 6.1 Binnium individuals, a face may depending the percentage of facial phonogon control of Principles and Principles and Foundation (Principles of Principles (Principles of Principles of Principles

groups and four of them (ns2628379, ns3827760, ns755927) and ns1198708) showed an invaried allole frequency between Europeans and East Assais, emphasizing population between Europeans are key feature underlying the guestic architecture of human more reorphology have demonstrated that climate changes have significantly contributed to the orobition of the human face (Wires et al. 2018, Zaidi et al. 2017). The absence and the large allele frequency differences in our study is in line with the previous findings and supports the hypothesis that climate adaptation and animal selection have sloped the human face during the bissury of evolution.

The most significant finding was EDAR to 3827760. EDAR encodes a cell-surface receptor important for the development of actodormal tissues, including skin. n/3827760 is a missense variant (VF76A) that affects protein activity (Busk et al. 2008; Mex et al. 2008), and the derived G affele ign cured with several actodormal-derived traits such an protrasion (Adhikari et al. 2016), increased hair anaights (Ton et al. 2013) and disckness (Pujmoto et al. 2014). Puji more et al. 2008to, teeth single and double measure loveling (Kimura et al. 2009; Park et al. 2015), increased earlobe attachment, decreased carlebe size, decounted cappromission, and demossed on belia rolling (Althours et al. 2015, Shaffer et al. 2017. Previous popularion g. co. adies repeatedly suggested than EPAR has berged a strong positive selec-tion in East Asia populario. A 2 Maii et al. 2016. Gross-mary et al. 2016. Kanthero. Tal. 2015. Saben et al. 2007. In our Eurasian supply the EEF/SIE rcSS27760 G allele was significantly associated with increases in eight facial landmark. distances and chorsed approximated effect on eye-orehance. distances of the long is consistent with an Asian specific and all compression of realistation. A provious facial shape 6 (ASS) Latin Americans reports that is 3827760 coplains of chia protrusson variance (Adhikari et al. 2016). In this study of Eurosians, we did not quantify this progression. but m3827760 explained a considerably larger proportion 12.86%) of the phenotypic variance for a different facial phenotype, i.e., the eye-otobusen distance. Because the Gulleleis nearly absent (~0.01) in Europeans and Africans (~0.01), highly frequent in our Eurosian study population (+0.35), and abundant in flast Assans (+0 KT), we expect the effect of





EDAR on facial variation is even more presented in East Asian populations.

Ru5781117 is close to the LTPLALI (Lyaophouphoirpase Like I) gene, which is a protein coding gene. Gene





WETENSCHAP

Omstreden studies Erasmus MConderzoeker met DNA Oeigoeren teruggetrokken

Twee wetenschappelijke tijdschriften hebben omstreden artikelen waar een Erasmus MC-onderzoeker bij betrokken was onlangs teruggetrokken.





3. Countering foreign interference in research are education

- Intimidation / monitoring
- Interfering in the academic debate
- (Self-)censorship







NOS Nieuws • Maandag, 01:41



'Chinese studenten in buitenland worden in de gaten gehouden door China'

NOS Nieuws • Maandag 11 juli 2022, 18:00 • Aangepast maandag 11 juli 2022, 19:01



Mensenrechtencentrum VU Amsterdam wordt opgedoekt na kritisch rapport



How do we protect knowledge security?

Legislation	Support by the government	Self-regulation
Export control: EU dual-use & military lists, Sanctions	National Knowledge Security Guidelines	Initiatives by umbrella organizations
Anti-espionage legislation	National Contact Point for Knowledge Security	Internal policies
Wet Screening Kennisveiligheid		Knowledge Security Coordinators



1 FRONT-OFFICE

RVO (Netherlands Enterprise Agency)
Single point of access. Provides
information and advice. Easy
questions can be answered
immediately.



2 BACK-OFFICE

All relevant government departments
Complex questions. RVO writes the
advice and all relevant ministries are
connected to this service to provide
additional information and advice.



3 AWARENESS

Events and website

Events about knowledge security aimed at the knowledge sector. Website with basic information and contact form. E-learnings and training courses. Toolkit for knowledge security officers.





Advices

- Non-binding advice
- No personal information
- Always a combination of risk factors

