

$\pm 500\ 000$



bruxelles
environnement
leefmilieu
brussel
.brussels 



± 90 000



€





Progress of the RE-Place project

M. Van Mulders, M. Everaert, V. Rogiers, B. Mertens

Monday 27th of March, 2023

Study Day Animal Welfare Leefmilieu Brussels

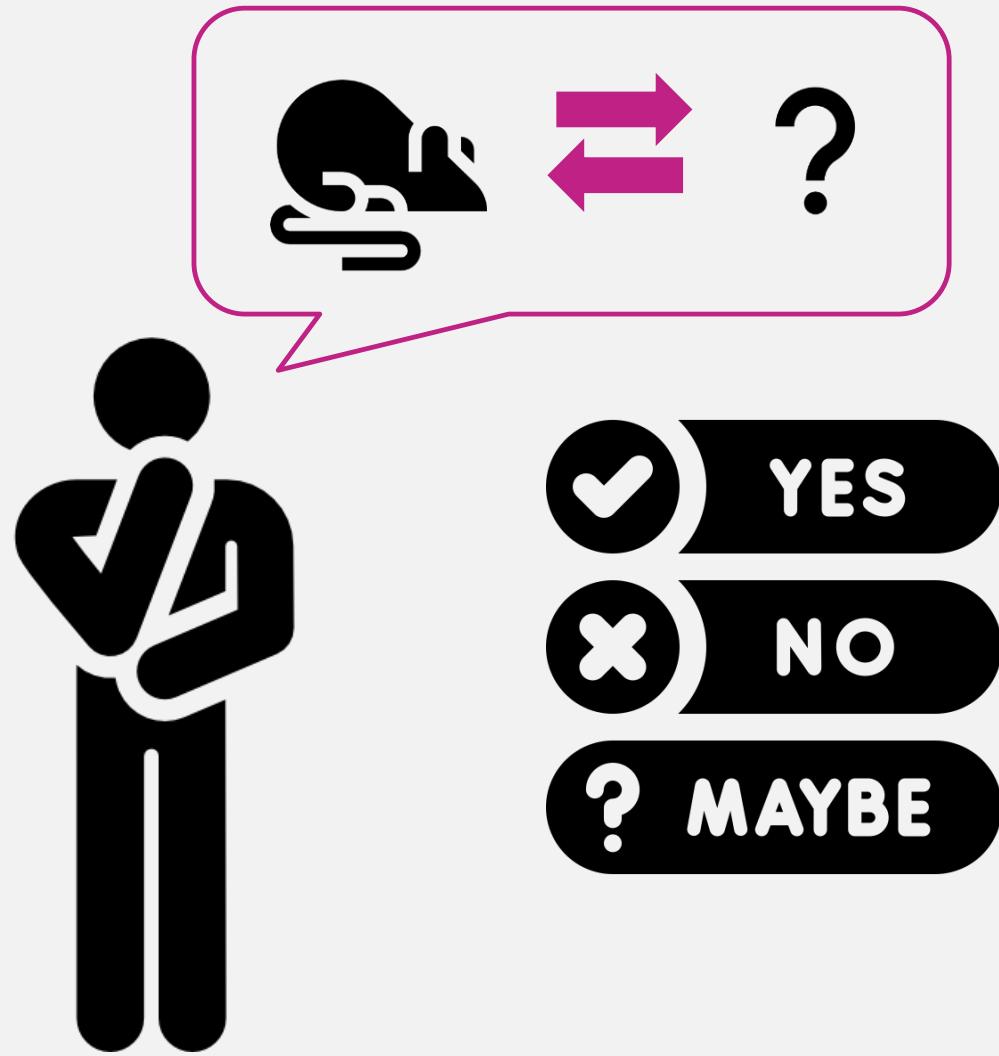
Brussels, Belgium



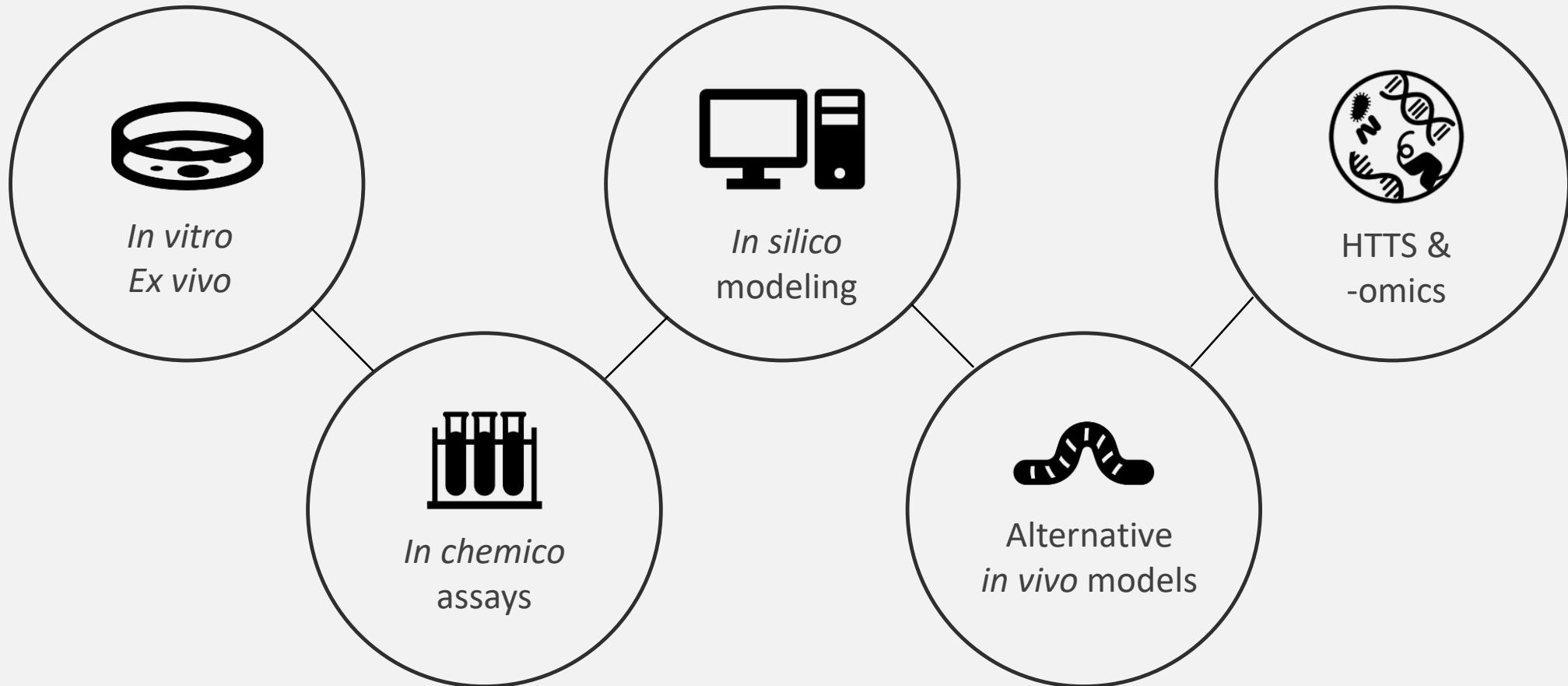
The background of the slide shows a close-up, slightly blurred view of laboratory glassware. It includes several petri dishes with different media, some test tubes, and a clear plastic syringe with a plunger, resting on a dark surface. The lighting creates soft highlights and shadows on the curved surfaces of the glassware, giving it a professional and scientific feel.

Launch of the RE-Place project

Can we replace animal testing?



New Approach Methodologies (NAMs)



+ Many other innovative technologies!

New Approach Methodologies (NAMs)

*“Innovative technologies in biomedical research
and regulatory testing that
avoid the direct use of live animals”*

*In chemico
assays*

*Alternative
in vivo models*

+ Many other innovative technologies!

Challenges related to the use of NAMs



Development and use of NAMs is continuously evolving,
Leading to a lack of standardization and validation



Limited to no regulatory framework available



Lack of trust & training in (data obtained via) new technologies

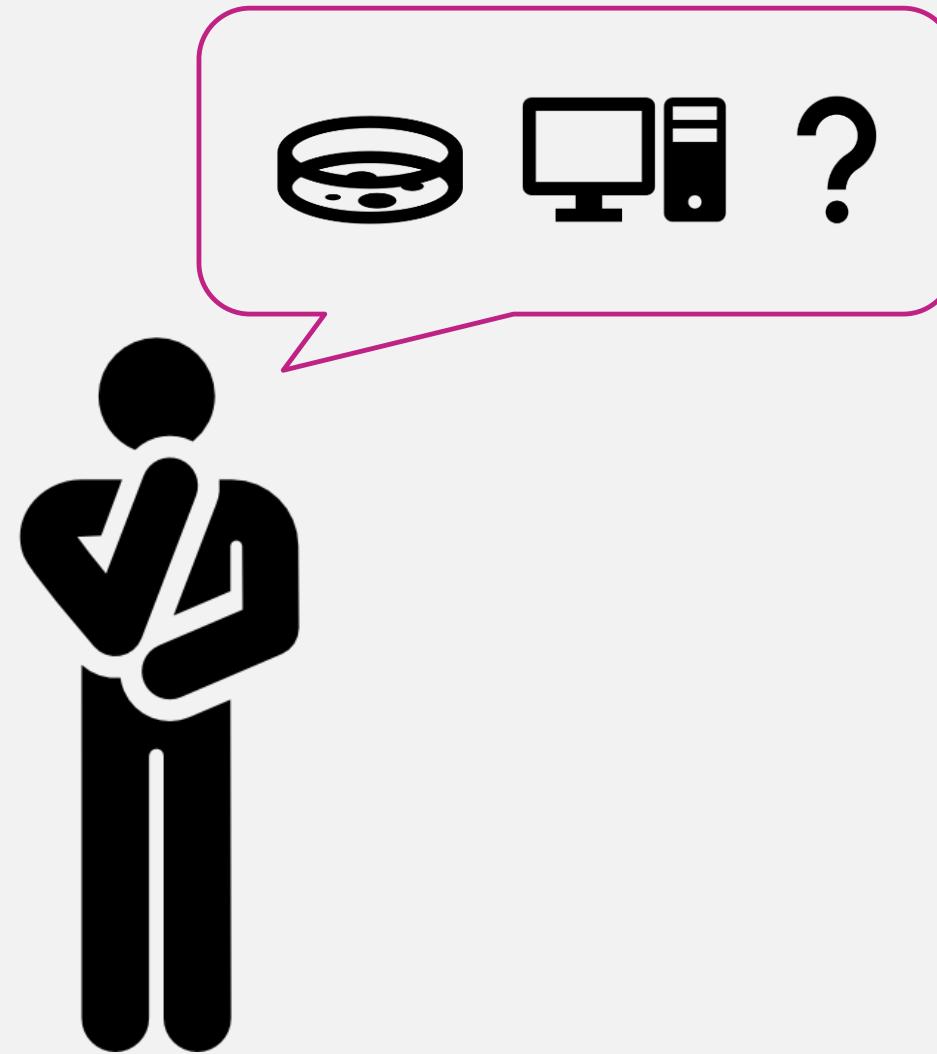


Difficult to find relevant, reliable and up-to-date information

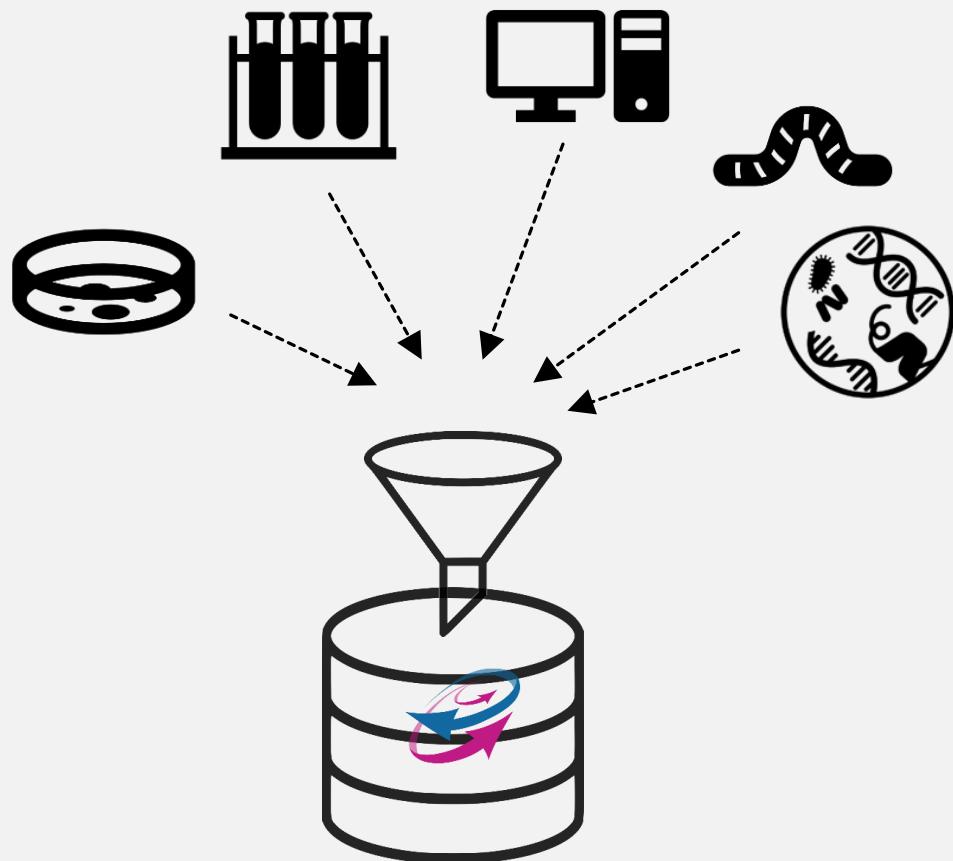


Need to centralize all available knowledge on alternatives

How far are we today?



Launch of the RE-Place project in Belgium



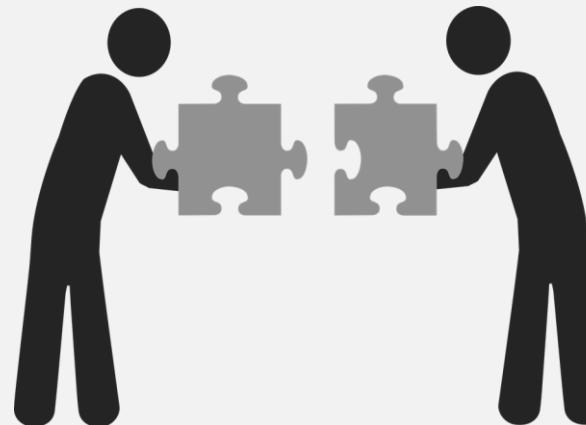
Collect the EXISTING EXPERTISE on
conventional alternative methods and NAMs
in Belgium in ONE CENTRAL DATABASE

All methods in which one has EXPERIENCE

- ✓ Developed and/or used
- ✓ One single step or a whole (research) strategy

Financing of the RE-Place project

JOINT PROJECT Departments of Animal Welfare



Vlaamse Overheid
Departement Omgeving (Weyts)



Leefmilieu Brussel
Kabinet Clerfayt, Formerly Debaets



Coordination of RE-Place project

➤ Sciensano

- Risk and Health Impact Assessment
- Dr. Birgit Mertens
- Mieke Van Mulders



➤ Vrije Universiteit Brussel

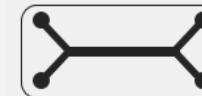
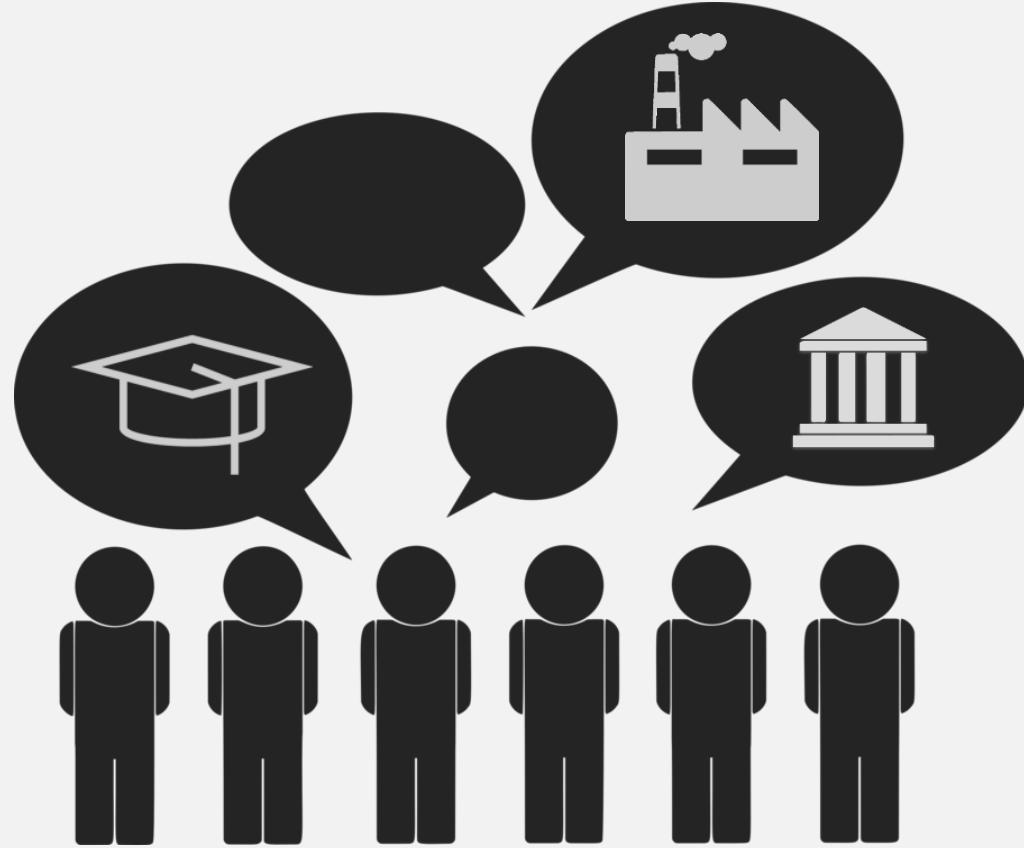
- *In Vitro* Toxicology and Dermato-cosmetology
- Prof. Vera Rogiers
- Maude Everaert



VRIJE
UNIVERSITEIT
BRUSSEL



RE-Place Steering Committee



Expertise in the field of NAMs



History of the RE-Place project



2017

2018

2019

2020

2021

2022

Launch of the RE-Place project

**Wetenschappelijk medewerker - Platform alternatieve methoden
dierproeven (m/v)**

WETENSCHAPPELIJK INSTITUUT VOLKSGEZONDHEID - Brussels



DEPARTEMENT
OMGEVING



VRIJE
UNIVERSITEIT
BRUSSEL

2017

2018

2019

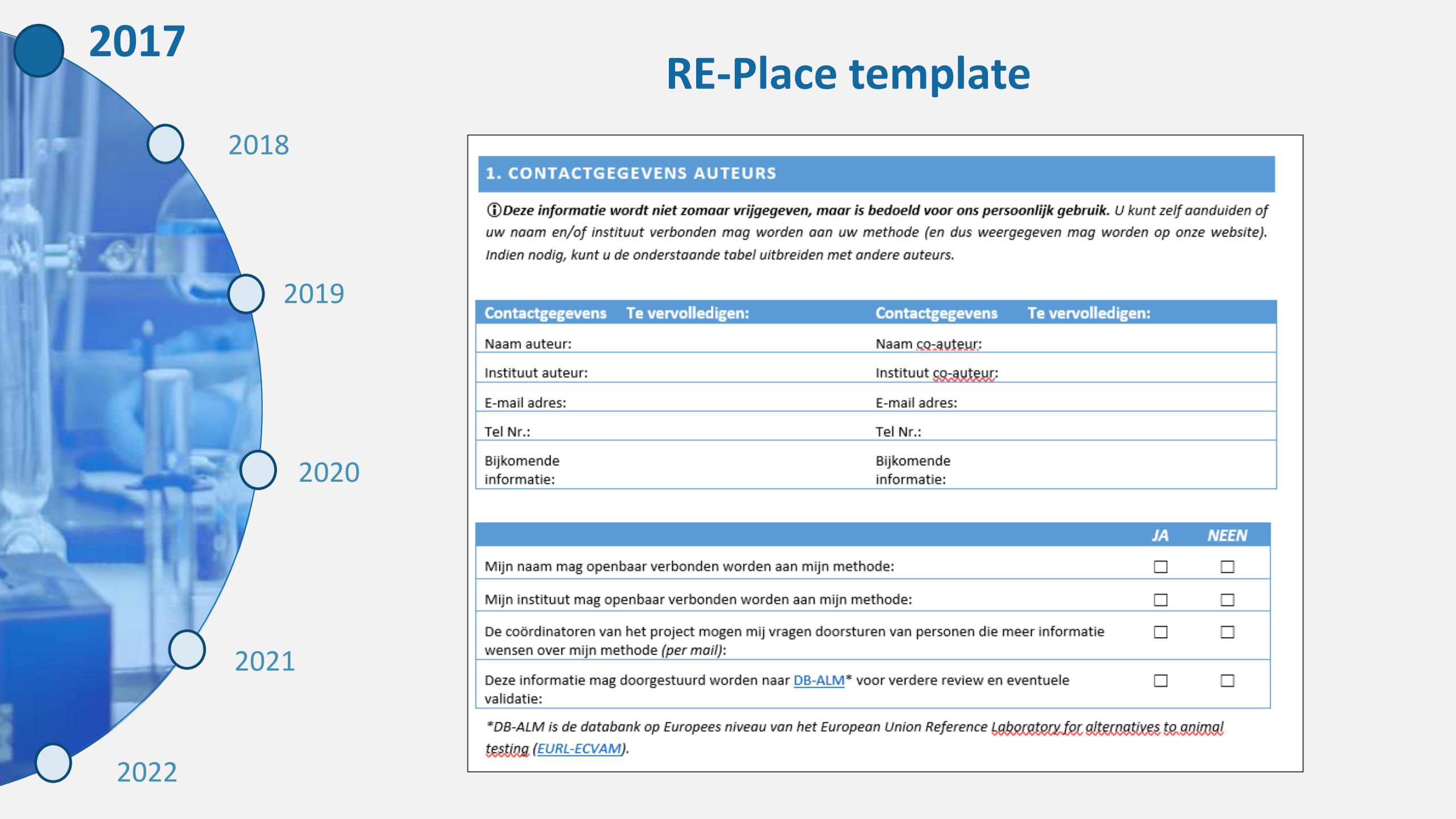
2020

2021

2022

Kick-off Symposium



A circular background image showing laboratory glassware like flasks and beakers in a blue-tinted, slightly blurred effect.

2017

2018

2019

2020

2021

2022

RE-Place template

1. CONTACTGEGEVENS AUTEURS

① Deze informatie wordt niet zomaar vrijgegeven, maar is bedoeld voor ons persoonlijk gebruik. U kunt zelf aanduiden of uw naam en/of instituut verbonden mag worden aan uw methode (en dus weergegeven mag worden op onze website). Indien nodig, kunt u de onderstaande tabel uitbreiden met andere auteurs.

Contactgegevens	Te vervolledigen:	Contactgegevens	Te vervolledigen:
Naam auteur:		Naam co-auteur:	
Instituut auteur:		Instituut co-auteur:	
E-mail adres:		E-mail adres:	
Tel Nr.:		Tel Nr.:	
Bijkomende informatie:		Bijkomende informatie:	

	JA	NEEN
Mijn naam mag openbaar verbonden worden aan mijn methode:	<input type="checkbox"/>	<input type="checkbox"/>
Mijn instituut mag openbaar verbonden worden aan mijn methode:	<input type="checkbox"/>	<input type="checkbox"/>
De coördinatoren van het project mogen mij vragen doorsturen van personen die meer informatie wensen over mijn methode (<i>per mail</i>):	<input type="checkbox"/>	<input type="checkbox"/>
Deze informatie mag doorgestuurd worden naar <u>DB-ALM</u> * voor verdere review en eventuele validatie:	<input type="checkbox"/>	<input type="checkbox"/>

*DB-ALM is de databank op Europees niveau van het European Union Reference Laboratory for alternatives to animal testing ([EURL-ECVAM](#)).



2017

2018

2019

2020

2021

2022

Collaboration with Brussels Environment



Nancy Liodo Missigba



2017

2018

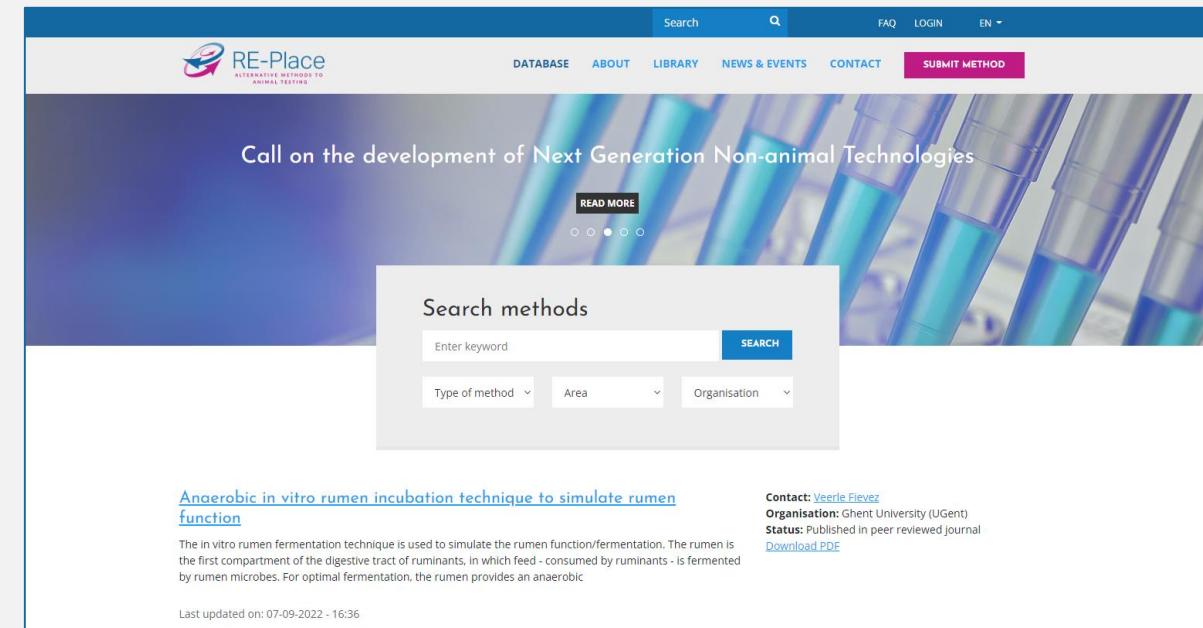
2019

2020

2021

2022

- Pilot Study with the template
- Development of the online tool
- Integration in the website





2017

2018

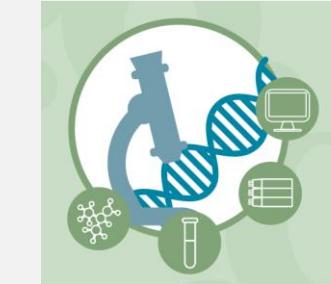
2019

2020

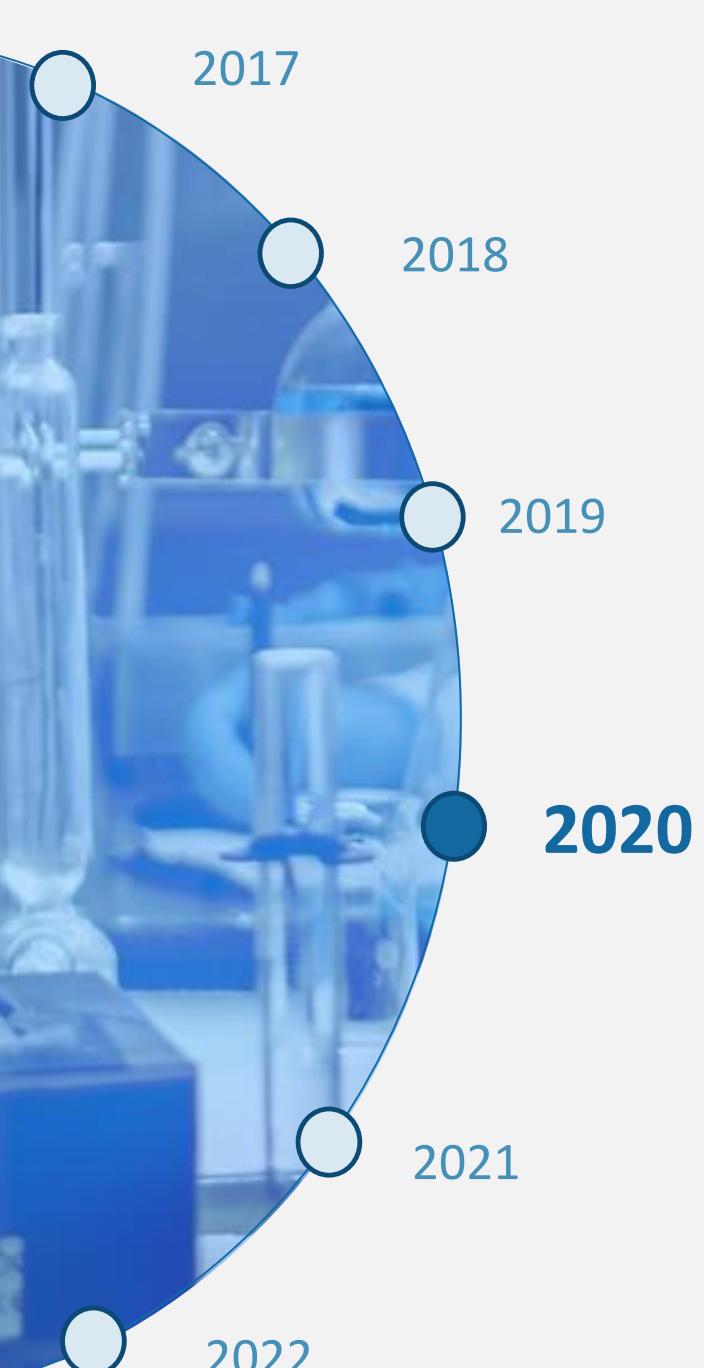
2021

2022

Promoting the project & collecting expertise



IC-3Rs
INNOVATION CENTRE
3R ALTERNATIVES



2017

2018

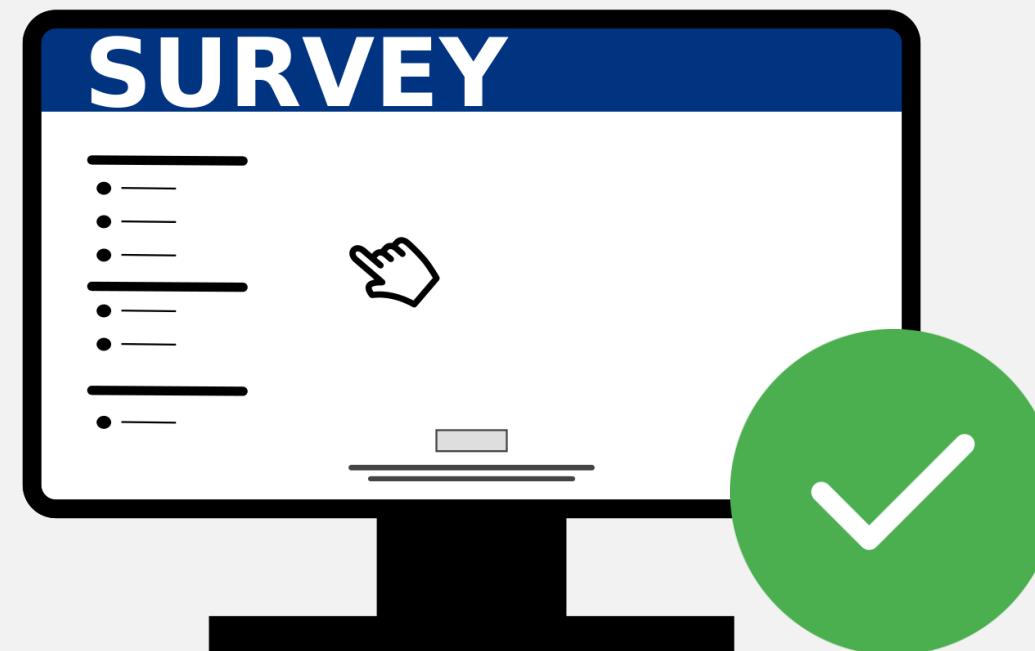
2019

2020

2021

2022

Survey on the use of the RE-Place platform





2017

2018

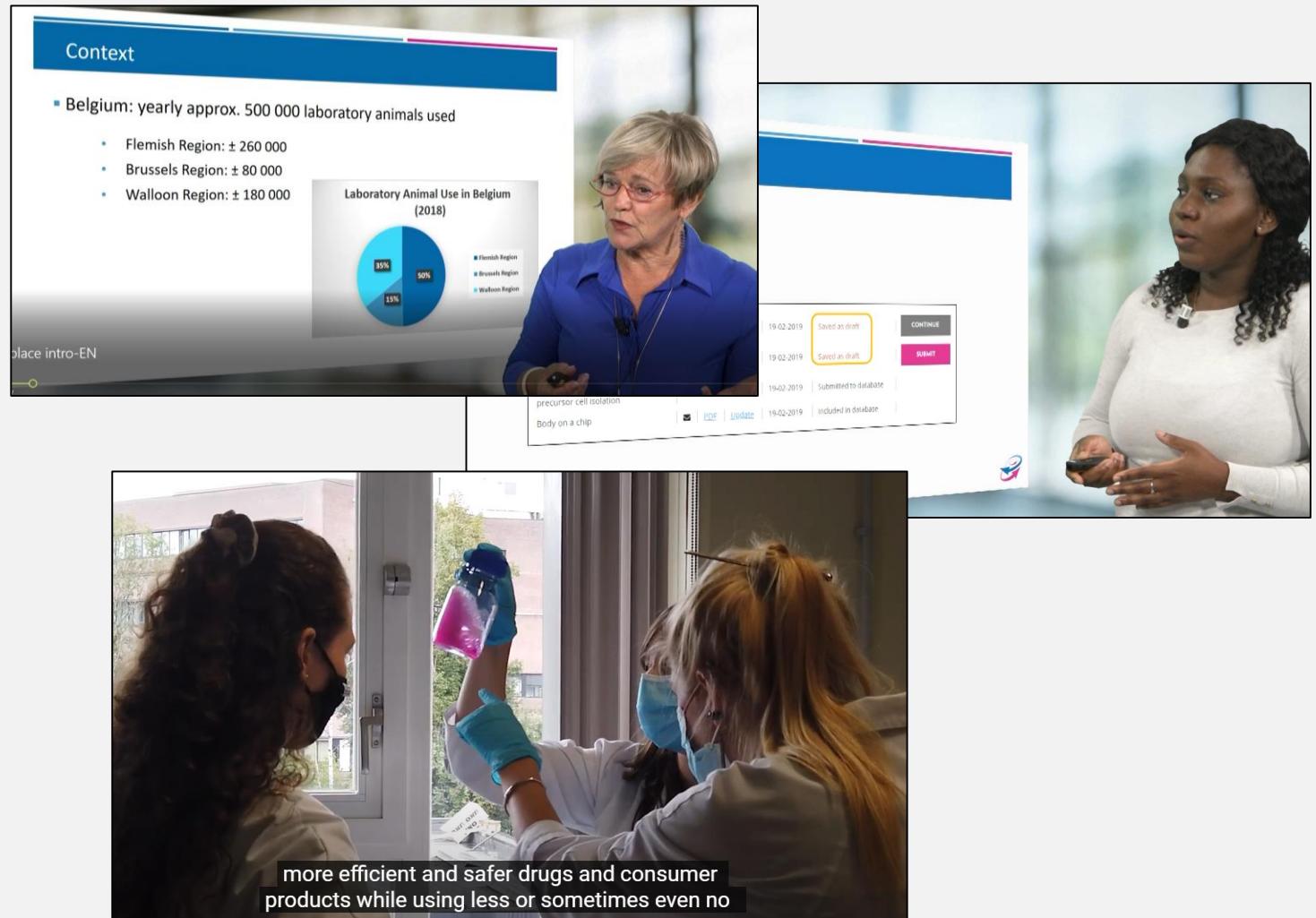
2019

2020

2021

2022

Develop new promotional material



Context

- Belgium: yearly approx. 500 000 laboratory animals used
 - Flemish Region: ± 260 000
 - Brussels Region: ± 80 000
 - Walloon Region: ± 180 000

Laboratory Animal Use in Belgium (2018)

Region	Percentage
Flemish Region	35%
Brussels Region	50%
Walloon Region	15%

place intro-EN

19-02-2019 | Saved as draft | CONTINUE
19-02-2019 | Saved as draft | SUBMIT

19-02-2019 | Submitted to database |
19-02-2019 | Included in database |

precursor cell isolation
Body on a chip

more efficient and safer drugs and consumer products while using less or sometimes even no

2017

2018

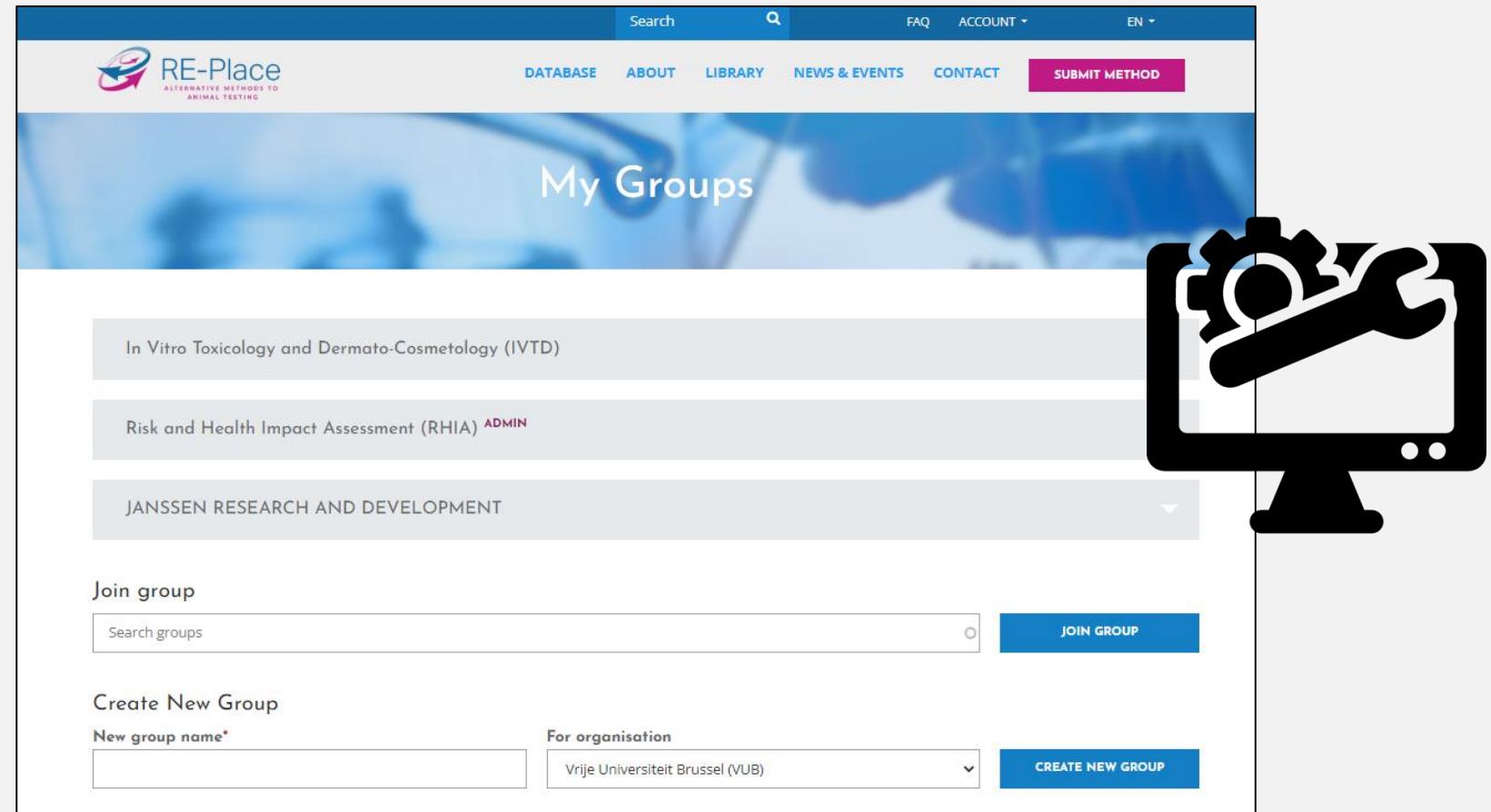
2019

2020

2021

2022

Launch of new features



RE-Place
ALTERNATIVE METHODS TO ANIMAL TESTING

Search 🔍 FAQ ACCOUNT EN

DATABASE ABOUT LIBRARY NEWS & EVENTS CONTACT SUBMIT METHOD

My Groups

In Vitro Toxicology and Dermato-Cosmetology (IVTD)

Risk and Health Impact Assessment (RHIA) ADMIN

JANSSEN RESEARCH AND DEVELOPMENT

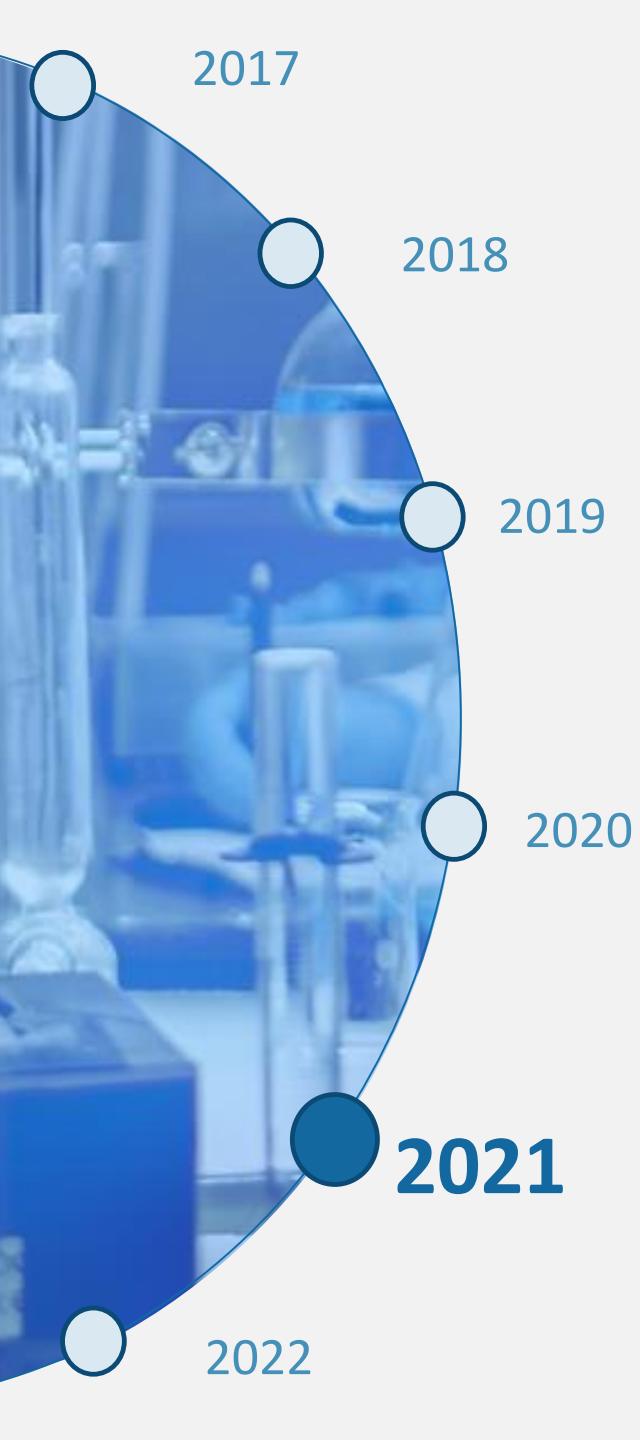
Join group

Search groups JOIN GROUP

Create New Group

New group name*

For organisation Vrije Universiteit Brussel (VUB) CREATE NEW GROUP



2017

2018

2019

2020

2021

2022

Press release Letter of the minister



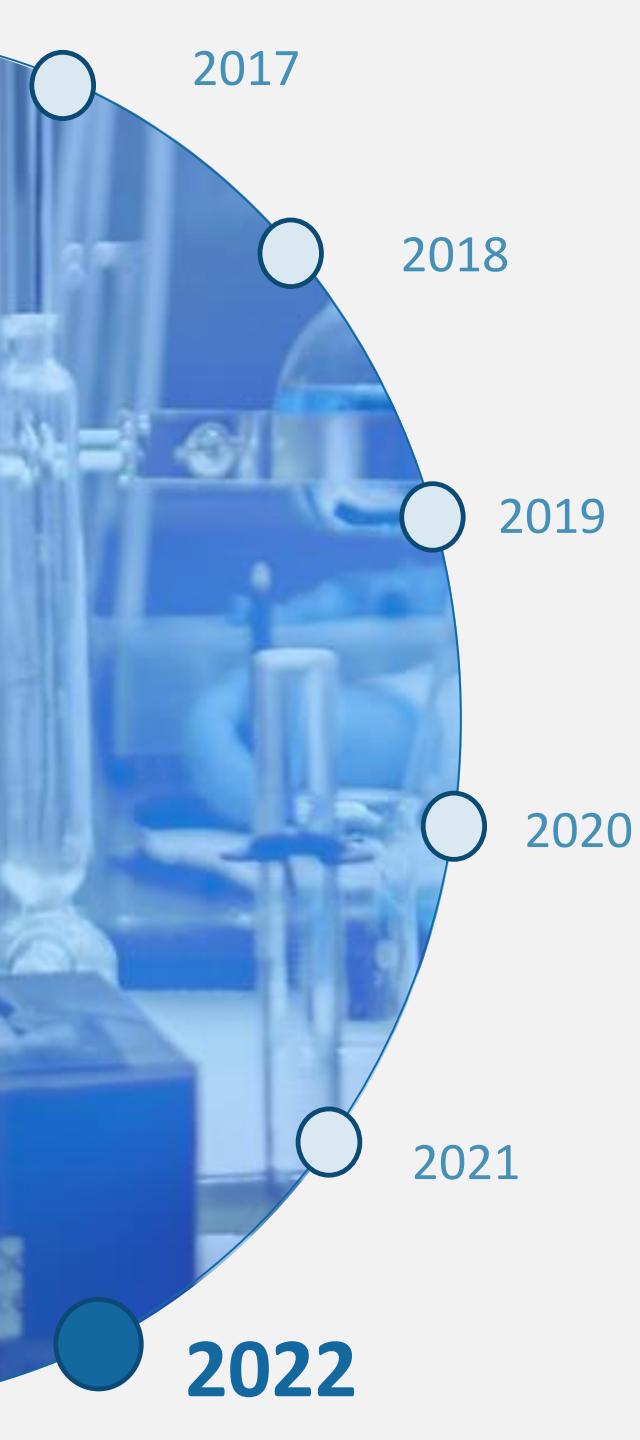
Het RE-Place project focust op het bevorderen van alternatieve methoden die dierproeven kunnen helpen vervangen

Brussel, 16 januari 2022
versie van het RE-Place
methoden voor dierge
mogelijk is met derge

170 méthodes alternatives à l'expérimentation animale déjà répertoriées par RE-Place

Actualité - Dimanche 16 janvier 2022





2017

2018

2019

2020

2021

2022

New scientific collaborator for the Brussels region



Maude Everaert



2017

2018

2019

2020

2021

2022

Expanding the scientific impact

RE-Place: A Unique Project Collecting
Expertise on New Approach Methodologies

 Frontiers in Pharmacology
Published on 22 Jun 2022

> 50 meetings



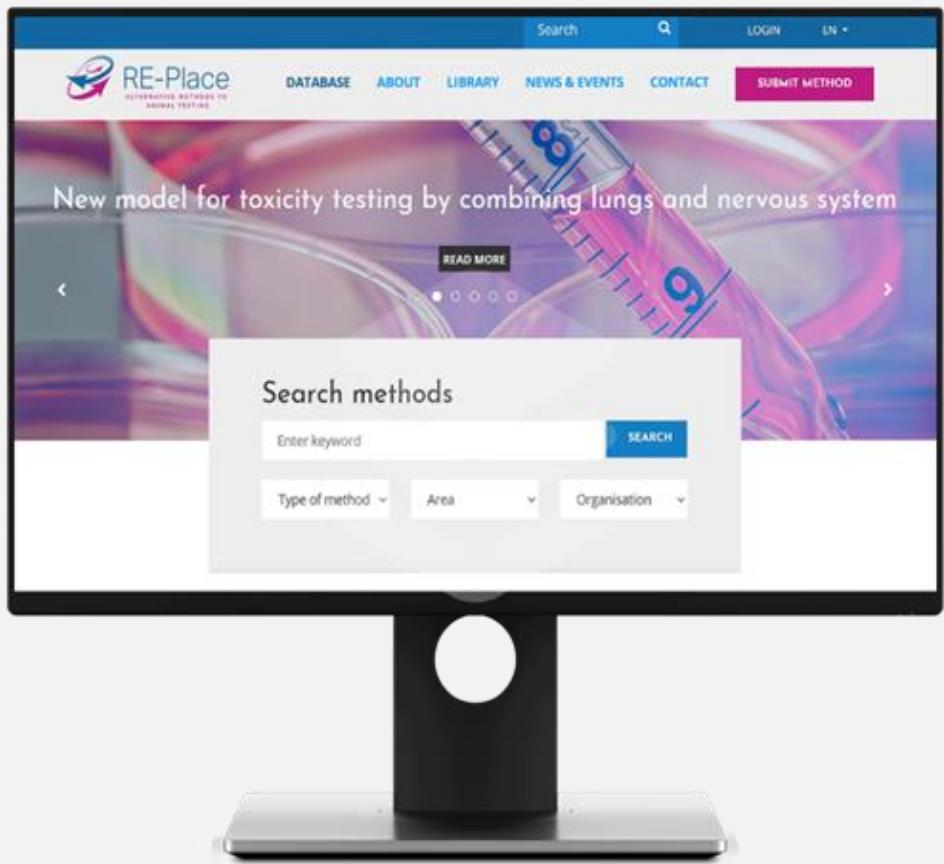
3 international presentations



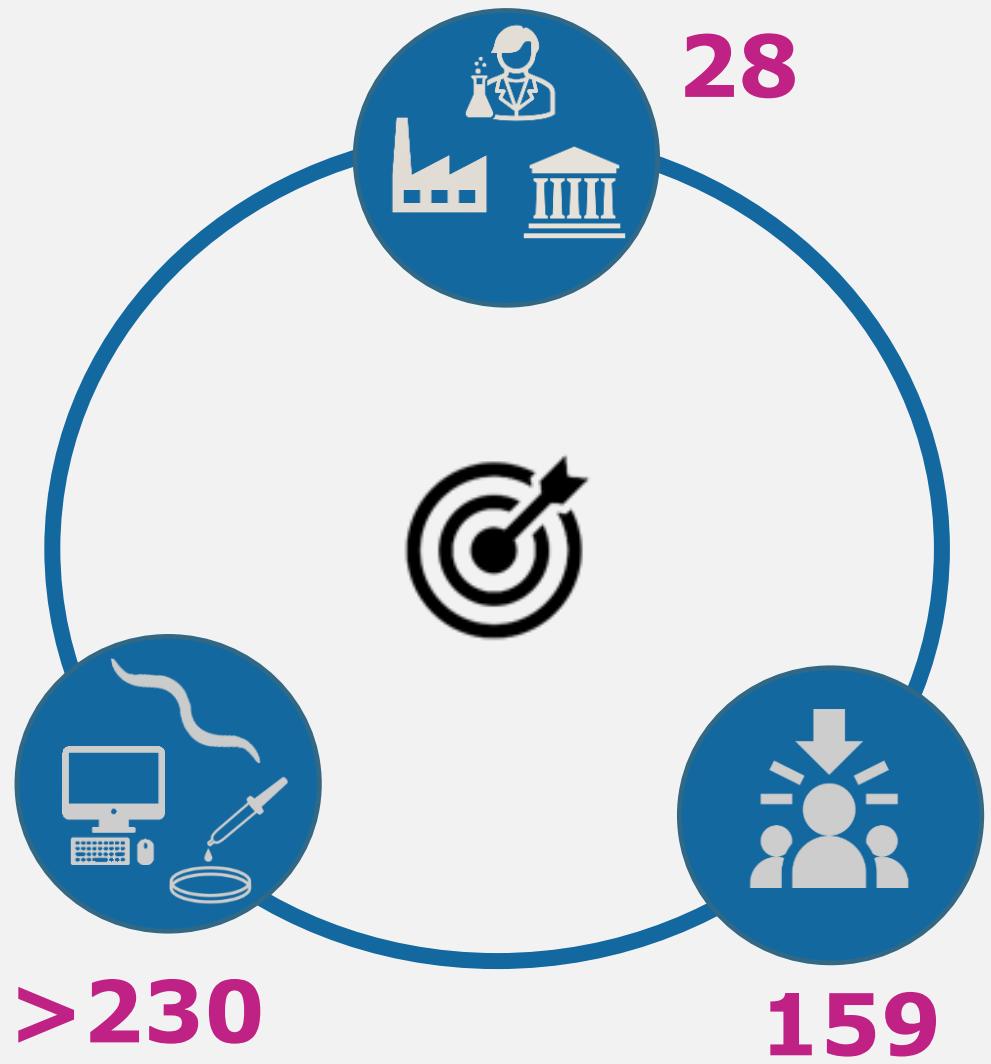
Current status

The background of the slide is a photograph of laboratory glassware. It includes several petri dishes with different media, some test tubes, and a large graduated glass dropper containing a clear liquid. The lighting is dramatic, with strong highlights and shadows, giving the glassware a three-dimensional appearance.

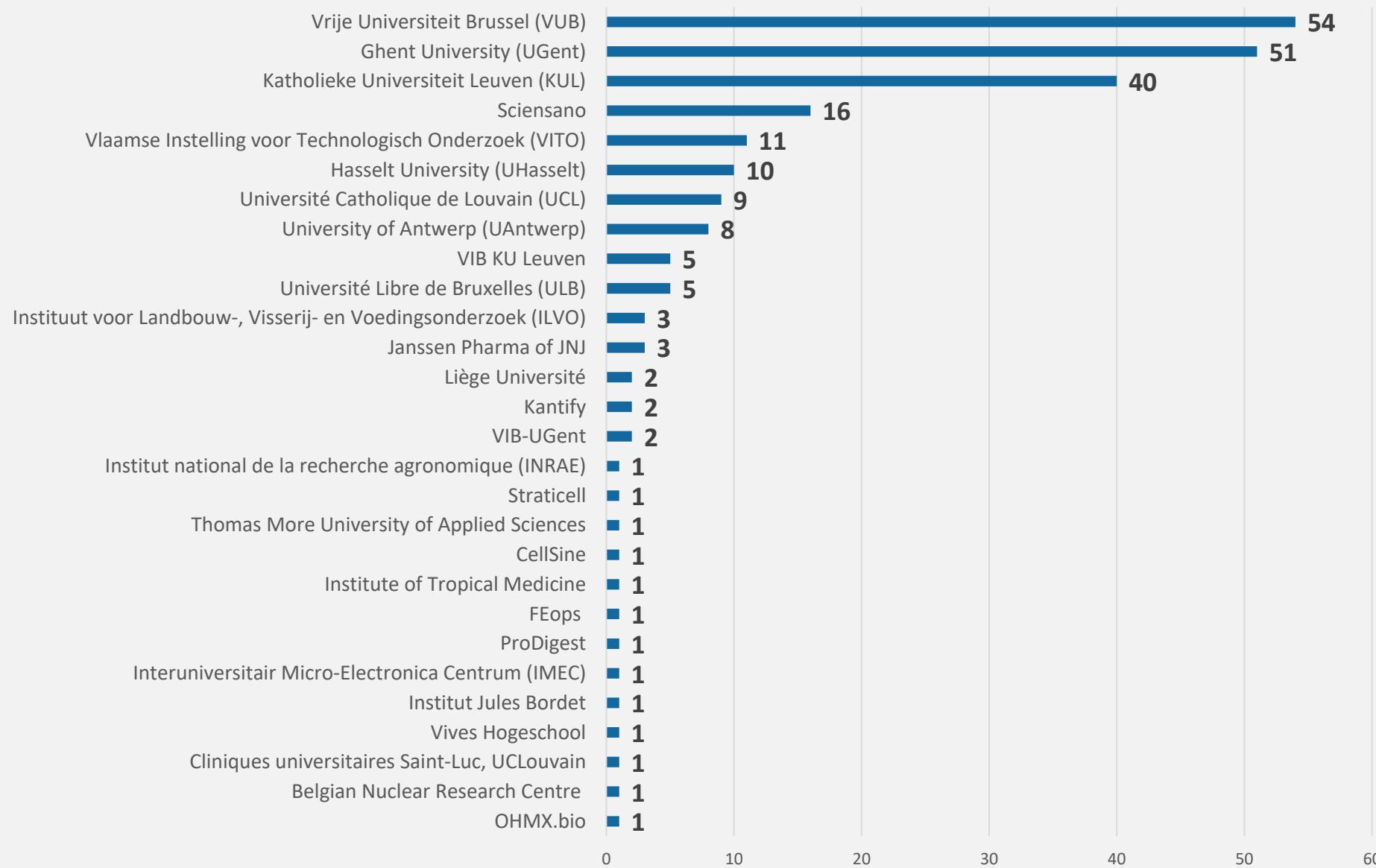
Current status of the RE-Place database



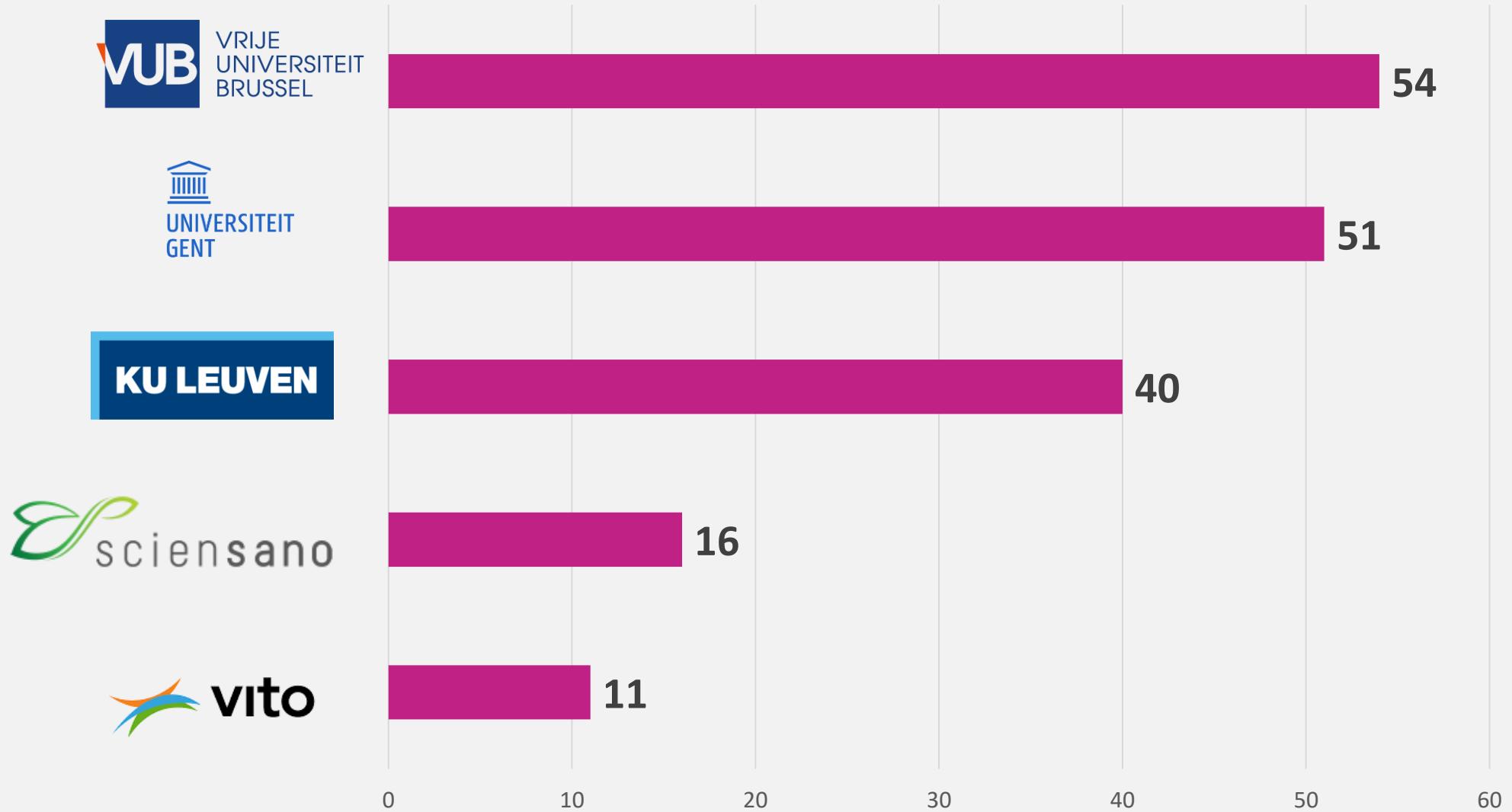
www.RE-Place.be



Current status of the RE-Place database: 27 organisations



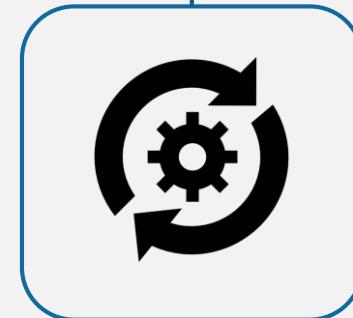
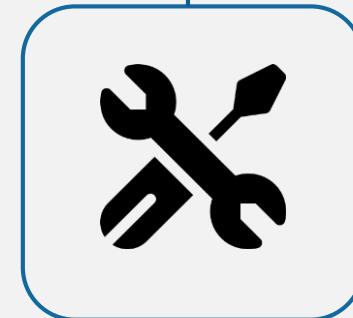
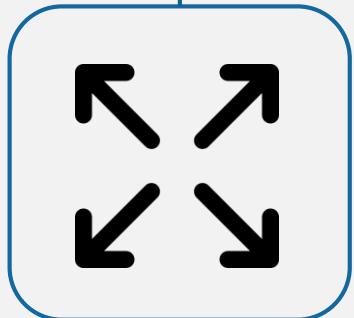
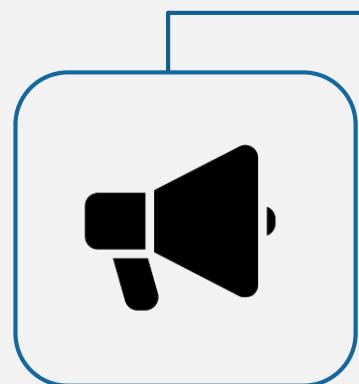
Current status of the RE-Place database: top 5 organisations





Future prospects

Continue our activities



Promote existing knowledge

The screenshot shows the RE-Place website interface. At the top, there's a navigation bar with links for DATABASE, ABOUT, LIBRARY, NEWS & EVENTS, CONTACT, and a prominent pink 'SUBMIT METHOD' button. Below the navigation is a search bar labeled 'Search methods' with fields for 'Enter keyword', 'Type of method', 'Area', and 'Organisation'. A large image of a blood vessel is visible in the background.

Generation of monocytes-derived dendritic cells from chicken blood for in vitro studies

The purpose of the present development is to use avian MoDCs to implement a cellular platform to increase understanding of the immune responses induced by various antigens of interest (e.g. vaccine candidates) and evaluate their immunogenic potential. Considering the difficulty to work on dendritic

Last updated on: 17-05-2022 - 17:00

Activity study of possible endocrine disruption via receptors by using CALUX cell systems

The CALUX® system (Chemically Activated Luciferase eXpression) of Bio Detec (Netherlands) uses U-2 OS cells (human osteoblast) that are stably transfected PPAR γ 2 (BDS, Amsterdam) and a luciferase reporter construct under the control of the PPAR γ 2 promoter.

Last updated on: 05-05-2022 - 08:59

Events

30/06/2022
2022 VIRTUAL 3D CELL CULTURE SUMMIT
Virtual Seminar [Read more](#)

30/06/2022
ALTERNATIVES IN ANTIBODY PRODUCTION
Webinar [Read more](#)

 **RE-Place, open access database collecting NAMs**
@REPLACEdatabase [...](#)

⚠️ Thank you @DittlauKatarina from @KU_Leuven for submitting your expertise on the generation of human #motorunits with functional #neuromuscular junctions in #microfluidicdevices to the RE-Place database!

Don't hesitate to have a look at her video 🎥


jove.com
Generation of Human Motor Units with Functional Neuro...
Scientific Video Article | We describe a method to generate human motor units in commercially available microfluidic ...

2:54 PM · Jan 12, 2023 · 714 Views

Upcoming events

2023



Study days



Educational webinars

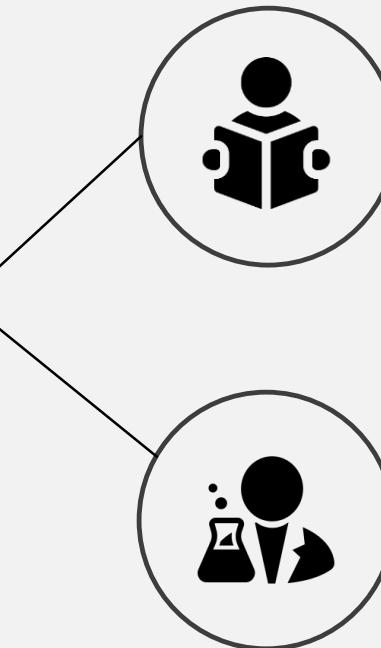
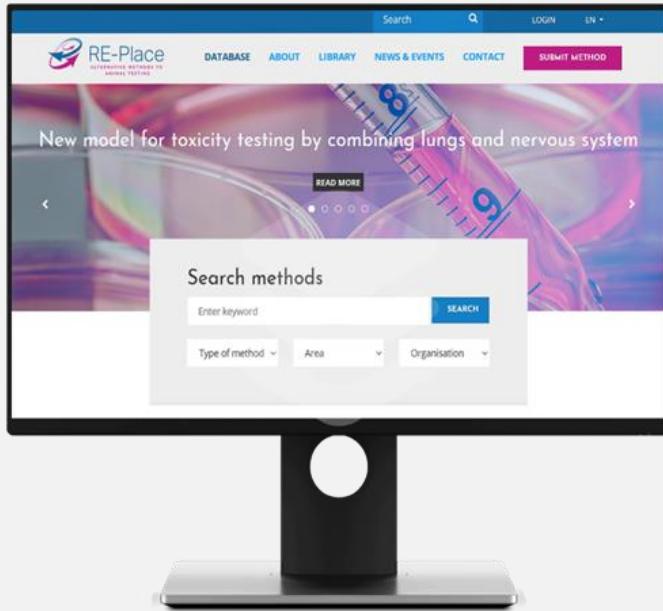


Joint symposium

Contact us via info@RE-Place.be

Register via www.RE-Place.be

RE-Place: knowledge sharing platform on NAMs



Learn more

Promote existing expertise