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## Newsletter #4 - 2021

### EDITORIAL

**By eTRANSAFE Editorial Board**

Dear friends and colleagues,

We are pleased to bring you the fourth edition of the **eTRANSAFE** Newsletter providing a glance to the latest project activities.

We are glad to report a significant progress in the past few months, as both sharing of preclinical and clinical data by the EFPIA companies, and in particular the system development activities have taken a leap forward. We are especially glad to announce the availability of the long-awaited system prototype (called ToxHub), which is now ready for end-user testing! Those eTRANSAFE members, who do not yet have access to the system may contact [isoininen@synapse-managers.com](mailto:isoininen@synapse-managers.com).

There have also been exciting advances related to several other lines of work, such as the SR-Domain tool, text mining effort and Virtual Control Groups initiative, among many others. We eagerly wait to see further development of these and other project assets and their intake for a wider use by the scientific community.

While this recent progress is very encouraging, the initial delays in data sharing and system development, together with the effects of the ongoing pandemic have made it necessary for the consortium to request a 6-month extension in the project duration, currently under consideration

The consortium is also pleased to welcome two new members aboard, as the entry of BASF and MedBioInformatics Solutions S.L was approved by the project partners this spring and will shortly be made official through amendment.

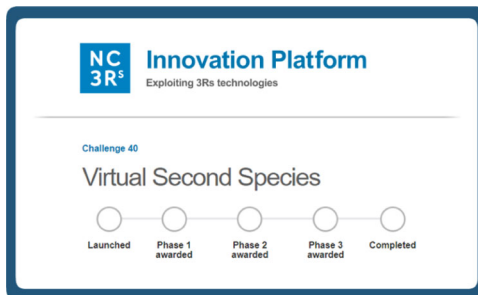
We wish you a great Autumn and that you stay connected to the eTRANSafe news!

With best wishes,

The eTRANSafe Editorial Board.

## LATEST NEWS

### eTRANSafe partners up with NC3Rs in the CRACK IT Challenge for a virtual second species



eTRANSafe is proud to participate in the recently announced NC3Rs CRACK IT Challenge scheduled to kick off in January 2021.

The aim of the Challenge is to apply advanced computational and mathematical modelling approaches to develop a suite of models that will

ultimately replace the use of the dog in six to nine-month (chronic) toxicology studies for new drug development programs.

[Read more](#)

### GMV joins the consortium as system product owner



The technology multinational has joined forces with other eTRANSafe partners, bringing its expertise to the development of the eTRANSafe biomedical data technology platform.

The incorporation of the company in the project was widely echoed by the press.

### Virtual Control Groups: one step forward into the future of animal testing in toxicology

In the fourth year of the action, the consortium has also made significant advances with the so-called Virtual Control Groups (VCGs) initiative. This approach is aimed at the replacement of control group animals used in toxicology studies, thus enabling a 3Rs (Replacement, Reduction and Refinement) strategy to allow for lesser animal testing.

A multi-disciplinary cross-industry and cross-academic team of statisticians, toxicologists and data-scientists has been established and coordinates the data collection process among the eTRANSAFE partners.



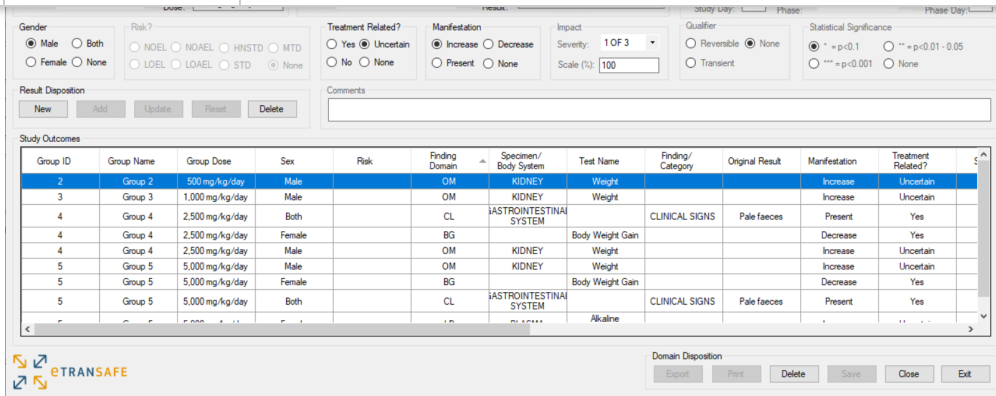
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### eTRANSAFE SME partner PDS releases the Study Report Domain Editor and Template for Capturing, Storing & Visualising Treatment-Related Effects Extracted from Study Reports

One of the recent project achievements, highlighting the eTRANSAFE SME impact, is the launch of the Study Report Domain Editor and Template by PDS.

These innovations are aimed at facilitating the capture, storage and visualization of treatment-related effects extracted from study reports and are being widely adopted by the project EFPIA partners.

The SR-Domain concept is raising broad interest also beyond eTRANSAFE and has already been shared with several external stakeholders comprising an industry-wide audience of CROs, Sponsors and Regulators.



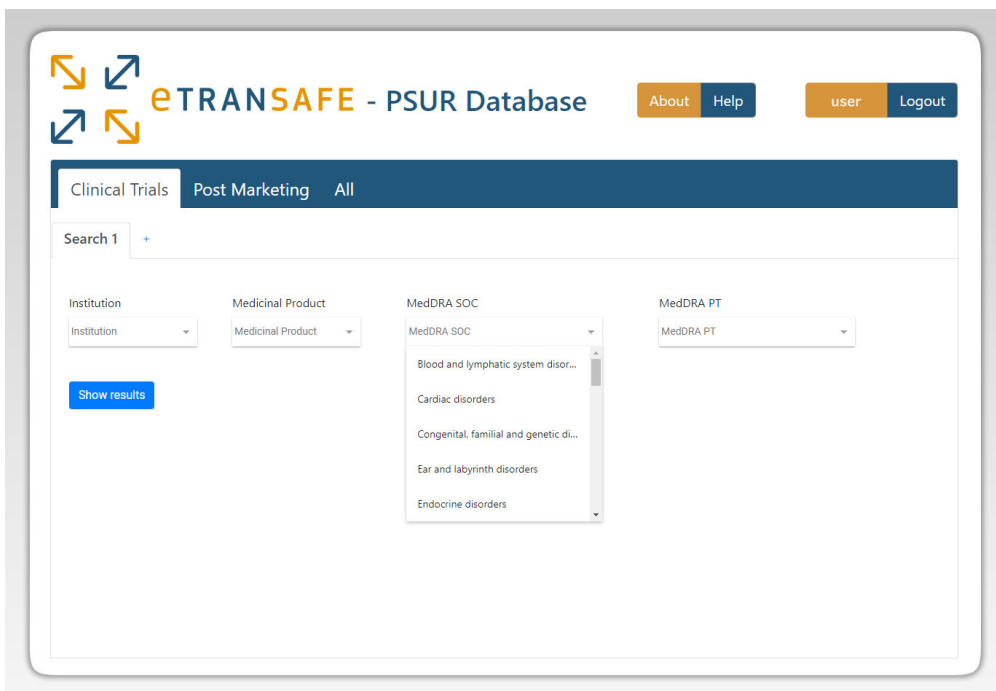
Read more

**One step closer to translation: eTRANSAFE launches the first version of the clinical database**

The first prototype of the Periodic Safety Update Reports (PSUR) Database has been developed by researchers from the Pompeu Fabra University (UPF) and Hospital del Mar Medical Research Institute (IMIM).

The database released in December 2020 counts with a web-based query function to provide diverse capabilities for exploring, filtering, and ranking the information contained in the PSUR documents.

The deployment of this tool brings the project one step closer to its goal of enhancing translational safety assessment during the drug development process.



## MEET THE TEAM

### Interview with JAVIER CORVI

Bioinformatics researcher at the Spanish National Bioinformatics Institute (INB) Coordination Node, Life Sciences Department, Barcelona Supercomputing Center (BSC). Currently doing a PhD in Biomedicine at the University of Barcelona focused on the development of modular, generic and containerized Biomedical Natural Language Processing (NLP) systems.



[Read more](#)

### Interview with PANUWAT TRAIRATPHISAN

Researcher at AbbVie, envisions eTRANSafe as the next generation of integrative data storage and analyses platform to tackle the challenges in translational predictions of drug toxicity.



[Read more](#)

## UPCOMING EVENTS

### [eTRANSafe Model Verification Workshop](#)

5 October 2021 | Virtual

### [eTRANSafe 13th Consortium Meeting](#)

18-19 October 2021 | Virtual

### [EUROTOX Congress 2021](#)

27 September – 1 October 2021 | Virtual

### [SPS Annual Meeting 2021](#)

4–8 October 2021 | Virtual

12–14 October 2021 | Virtual

### **ACT 42nd Annual Meeting**

14–17 November 2021 | Face-to-face



## PUBLICATIONS

### **The eTRANSafe Project on Translational Safety Assessment through Integrative Knowledge Management: Achievements and Perspectives.**

Pognan F., Steger-Hartmann T., Díaz C., Blomberg N., Bringezu F., Briggs K., Callegaro G., Capella-Gutierrez S., Centeno E., Corvi J., Drew P., Drewe W.C., Fernández J.M., Furlong L., Guney M., Kors J.A., Mayer M.A., Pastor M., Piñero J., Ramírez-Anguita J.M., Ronzano F., Rowell P., Saüch-Pitarch J., Valencia A., van de Water B., van der Lei J., van Mulligen E. and Sanz F. *Pharmaceuticals*. 2021. 14(3):237

### **Guidelines for FAIR sharing of preclinical safety and off-target pharmacology data.**

Briggs K., Bosc N. Camara T., Diaz C., Drew P., Drewe W.C., Kors J., van Mulligen E., Pastor M. Pognan F., Quintana J.R., Sarntivijai S., Steger-Hartmann T. *ALTEX*. 2021. 38(2):187-197

### **The DisGeNET cytoscape app: Exploring and visualizing disease genomics data.**

Piñero J, Saüch J, Sanz F, Furlong L. *Comput. Struct. Biotechnol. J*. 2021. 19:2960-2967

### **Flame: an open source framework for model development, hosting, and usage in production environments.**

Pastor M., Gómez-Tamayo JC., Sanz F. *Journal of Cheminformatics*. 2021. 13(1):31.

### **An ensemble learning approach for modeling the systems biology of drug-induced injury.**

Aguirre-Plans J, Souza T, Piñero J, Callegaro G, Kunnen SJ, Sanz F, Fernandez-Fuentes N, Furlong LI, Guney E, Oliva B. *Biol Direct*. 2021. 16(1):5

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James Rathman, Chihae Yang\*, J. Vinicius Ribeiro, Aleksandra Mostrag, Shraddha Thakkar, Weida Tong, Bryan Hobocienski, Oliver Sacher, Tomasz Magdziarz, and Bruno Bienfait. Chem. Res. Toxicol. 2021. 34(2):601-615.

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