Resource Summary Report

Generated by NIF on Apr 19, 2025

ORBITO

RRID:SCR_003876
Type: Tool

Proper Citation

ORBITO (RRID:SCR_003876)

Resource Information

URL: http://www.orbitoproject.eu/

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Description: Project that aims to increase understanding of how orally-administered drugs are taken up from the gastrointestinal tract into the body, and apply this knowledge to create new laboratory tests and computer models that will better predict the performance of these drugs in patients over a range of clinically relevant conditions. The integration of in vitro and in silico approaches will provide a biopharmaceutics toolkit, validated using clinical data, to accelerate drug development. Ultimately, the project will help to facilitate and speed up the formulation development process and significantly reduce the need for animal experiments in this area as well as for human clinical studies in the future. For patients, the main benefit will be in the form of high quality medicines where the dose required is well calculated and is released in a way that consistently provides an optimal clinical effect.

Abbreviations: ORBITO

Synonyms: orbito - Innovative Tools for Oral Biopharmaceutics, Oral biopharmaceutics tools (ORBITO)

Resource Type: consortium, organization portal, data or information resource, portal

Keywords: drug, drug development, tool development, computer model, drug absorption, oral drug, gastrointestinal tract, clinical, in vivo, in vitro, in silico, biopharmaceutics, dose, drug performance

Funding: Innovative Medicines Initiative ;
EFPIA

Resource Name: ORBITO

Resource ID: SCR_003876

Alternate IDs: nlx_158204

Record Creation Time: 20220129T080221+0000

Record Last Update: 20250420T014156+0000

Ratings and Alerts

No rating or validation information has been found for ORBITO.

No alerts have been found for ORBITO.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 7 mentions in open access literature.

Listed below are recent publications. The full list is available at NIF.

Dunn C, et al. (2019) Topography of Simulated Intestinal Equilibrium Solubility. Molecular pharmaceutics, 16(5), 1890.

Radivojev S, et al. (2019) Searching for physiologically relevant in vitro dissolution techniques for orally inhaled drugs. International journal of pharmaceutics, 556, 45.

Hens B, et al. (2018) Formulation predictive dissolution (fPD) testing to advance oral drug product development: An introduction to the US FDA funded '21st Century BA/BE' project. International journal of pharmaceutics, 548(1), 120.

Guiastrennec B, et al. (2017) In Vitro and In Vivo Modeling of Hydroxypropyl Methylcellulose (HPMC) Matrix Tablet Erosion Under Fasting and Postprandial Status. Pharmaceutical research, 34(4), 847.

Batchelor H, et al. (2016) Towards the development of a paediatric biopharmaceutics classification system: Results of a survey of experts. International journal of pharmaceutics, 511(2), 1151.

Kourentas A, et al. (2016) In vitro evaluation of the impact of gastrointestinal transfer on luminal performance of commercially available products of posaconazole and itraconazole

using BioGIT. International journal of pharmaceutics, 515(1-2), 352.

Olivares-Morales A, et al. (2014) The use of ROC analysis for the qualitative prediction of human oral bioavailability from animal data. Pharmaceutical research, 31(3), 720.