



# WELCOME TO THE OSP CC 25

From the OSP Orga Team and MT

Dr Stephan Schaller

Chair OSP MT, CEO CLS Foundation, CEO ESQlabs





# Acknowledgements

# Acknowledgements: Sponsors

- Gold



- Silver



- Bronze



# Acknowledgements: People

- Orga Team



Henrik Cordes  
Sanofi



Donato Teutonico  
Sanofi



Stephan Schaller  
CLS Foundation, ESQlabs



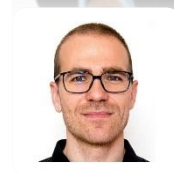
Ibrahim Ince:  
Boehringer Ingelheim



Wilbert De Witte  
ESQlabs



Lars Küpfer  
UK Aachen



André Dallmann  
Bayer



Jan Schlender  
Novartis

- Backoffice



Monique Fontana (LinkedIn, Marketing, Conference Operations)  
ESQlabs



Robert McIntosh (Website)  
ESQlabs

- Orga Team Supporters:

- Salih Banamara (Sanofi)
- Denise Feick (Sanofi)



COMPUTATIONAL LIFE SCIENCES FOUNDATION  
Advancing Computational Life Sciences through Open Collaboration





# Conference Program

## - Outlook -



# Conference Program

## - Outlook -

- 106 Participants form 40 Institutions (From 105/40 last time)
- 6 PK-Sim and MoBi Workshops
  - Basics, PBBM, DDI, Pediatrics, MoBi, and OSP-R
- 4 Scientific Sessions (Broader Scope, less talks)
  - Session 1 & 2: Clinical Applications/ Development
    - DDI, PBBM, Special Pops, Regulatory Document
  - Session 3: Research & Discovery
    - AI/ML, ADMETox, HT-PBPK, IVIVE, Safety/Early tox
  - Session 4: Submission, Lifecycle & Approval
- 1 Software Session
  - OSP Software Roadmap and Collaborative SW Development



# Housekeeping

# Housekeeping: Time

- Talks - Q&A
  - Packed Program: Stay on Time!!!
    - 20 min Talk (will be cut after 25 min), 10 min Q&A
    - All Session Chairs are expected to be strict on speaking time!
  - Microphones will be circulated for Q&A
- Breaks
  - Coffee Breaks and Lunch
  - Directly here in the Building



# Housekeeping: Social Event

Join us for an unforgettable evening at La Maison Sanofi Paris!

 Monday, September 29<sup>th</sup>, 2025



 46 Avenue de la Grande Armée, 75017 Paris [Sanofi - Google Maps](#)

 **Please make sure to bring the QR code you received with you. It will be required to access the site.** 

 \*Transportation to the DINNER venue\*

 Bus departure: 18:30 from Sanofi Vitry Main Entrance.

 \*Return Options\*

Please note that the social event will wrap up around midnight. After our dinner at La Maison Sanofi Paris, you're on your own for the return journey, but don't panic! This is your chance to experience the City of Lights by night  





# THE OSP COMMUNITY

Fostering **Engagement** and **Collaboration**  
for a thriving **Community**



# Mindset for the OSP Community Conference

- Introduction to the OSP Community
  - Helping you understand Stakeholders and Dependencies
  - → Engage with people during coffee breaks and find connections for your topics/questions
- Current Engagement of the OSP Community
  - How and where do we interact: Finding your way
  - What is the OSP Growth Trajectory
  - → Engage at Posters during coffee breaks, find collaborators and get inspired to contribute to the growth
- Our Path Forward
  - How can we sustain and build relevance for the OSP in the future of MIDD and NGRA
  - Funding the OSP Community
  - → Engage with stakeholders during coffee breaks and discuss how you could contribute or share ideas for building a sustainable future for OSP



# Vision and Mission of the OSP



# Vision and Mission of the OSP

<https://github.com/Open-Systems-Pharmacology/Roadmap>

**Robust and reliable, easy-to-use modeling & simulation tools, processes and models for pharmaceutical and other life-sciences applications qualified and accepted by a scientific community from academia, regulatory agencies and industry available and open to everyone.**

Provide a platform for joint development, review & qualification, and application of state-of-the-art tools for PBPK and Systems Pharmacology modeling and an open library of models for application as well as method & tool qualification purposes. Promote the idea of pre-competitive open collaboration for the advancement of modeling & simulation sciences in pharmaceutical and life science.

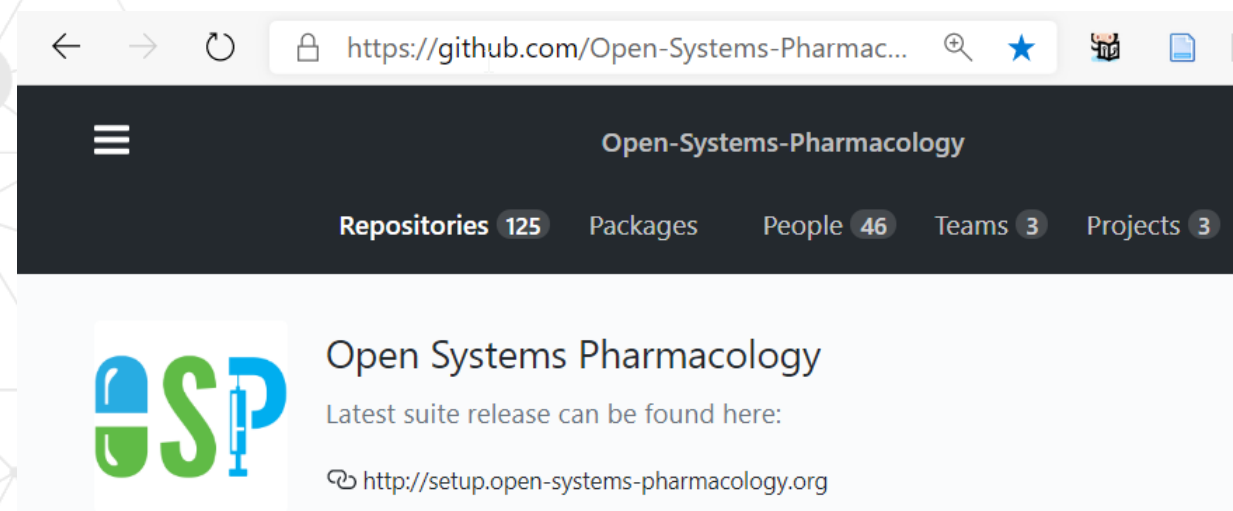
# The OSP Management Team

- **The OSP management team** manages the community and its membership.
- It is responsible for regular review, endorsement and publication of the **OSP development roadmap** (“Executed” through Focus Groups).
- *The management team provides certification of the software platform, models and other systems pharmacology content such as qualifications and trainings.*
- It **releases** certified platform versions.
- The team organizes **contributions to the scientific and regulatory community** and publishes white papers.



# The OSP Community Landscape

Stakeholders of the **Open Systems Pharmacology** community and **Management Team**



Open Source since 2017 on GitHub

## MANAGEMENT TEAM



**MICHAEL SEVESTRE**  
Design2Code Inc.



**ROLF BURGHAUS**  
Systems Pharmacology & Medicine,  
Bayer AG



**STEPHAN SCHALLER**  
CEO, esQLABS GmbH



**ALEXANDER STAAB**  
Boehringer Ingelheim Pharma GmbH  
& Co. KG



# The OSP Community Focus Groups

## Representing the “Executive Arm” of OSP Roadmap Implementation

Dedicated Focus Groups have been established to conceptualize, design and progress the individual areas, the Management Team will coordinate the interplay of focus areas and interfaces between them

Focus groups shall be the owner of the development in the respective focus area, they are expected to conceptualize and coordinate activities of the respective field.

### EXISTING

- DDI
- Special Populations
- Absorption
- Automation
- PD
- Statistical modelling
- First in Human (IVIVE)
- Omics
- Suite Release Management
- Community Engagement (PR)
- Biologics

### NEW

- Nonclinical PBPK
- PBBM
- HT PBPK
- Qualification
- Base PBPK Methodology

DDI	Quantitative DDI predictions (CYPs as well as transporters) are one of the key applications for PBPK and are a prerequisite for designing efficient clinical development programs and studies. A comprehensive library of well documented, qualified perpetrators and victims is a prerequisite for acceptance of DDI predictions from regulatory authorities.	Sebastian Frechen ( <a href="#">@sfrechen</a> )
IVIVE	<ul style="list-style-type: none"><li>• Improve and facilitate use of IVIVE in PK-Sim</li><li>• Provide guidelines on how to conduct IVIVE in PK-Sim</li><li>• Facilitate integration of in vitro data in prediction of DDI (e.g. integration of fraction metabolized)</li><li>• Extrapolation of Caco-2 permeabilities to effective permeabilities</li></ul>	Donato Teutonico ( <a href="#">@teutonicod</a> )
Special populations	The addition of new or updated virtual populations is required to expand the application scope of the software in a consistent manner across users. The overall objectives are to define a process for 1. technical generation of populations destined for the OSP Suite and, 2. evaluation of those populations. This protocol will allow populations to be added more efficiently.	Andrea Edginton ( <a href="#">@Aedginto</a> )
Statistical Modelling	Statistical Modeling is a strategic theme of the OSP MT. Statistical modeling is a key enabler for PBPK and QSP M&S. Respective capabilities are required for all application areas to quantitatively assess population variability and uncertainty in prior knowledge and posterior results.	Christian Diedrich ( <a href="#">@DiedrichC</a> )



# The OSP “Executive Body”: Focus Groups

## Composition

- Everybody from OSP community can contribute to a focus group
- At least one member from the OSP MT has to act as sponsor of a focus group (not necessarily participating in the work of the focus group)

## Purpose

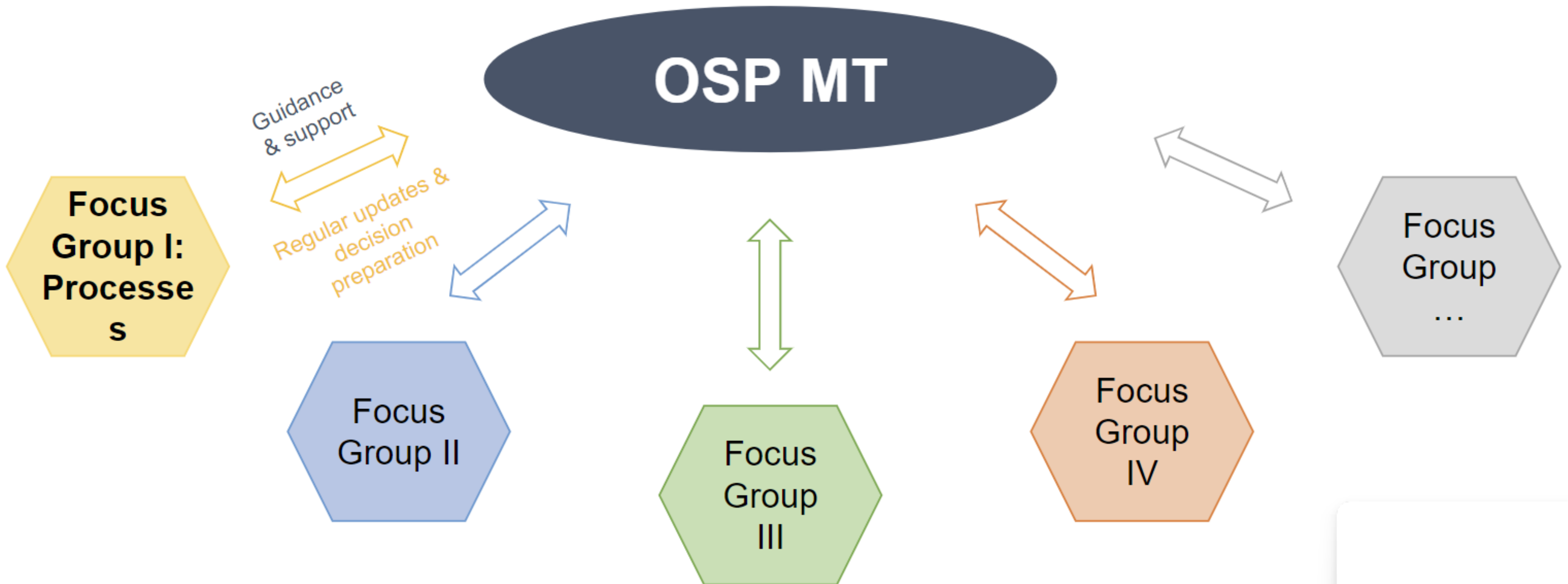
- Focus groups are the operating bodies of the OSP MT
- They act on the mandate of the OSP MT and report directly into the MT (internal topic development)
- Topics are not restricted and can range from Modell certification process to Marketing
- Through a clear project structure small teams should be empowered to elaborate clearly defined topics for further decision in OSP MT

## Requirements / Organization

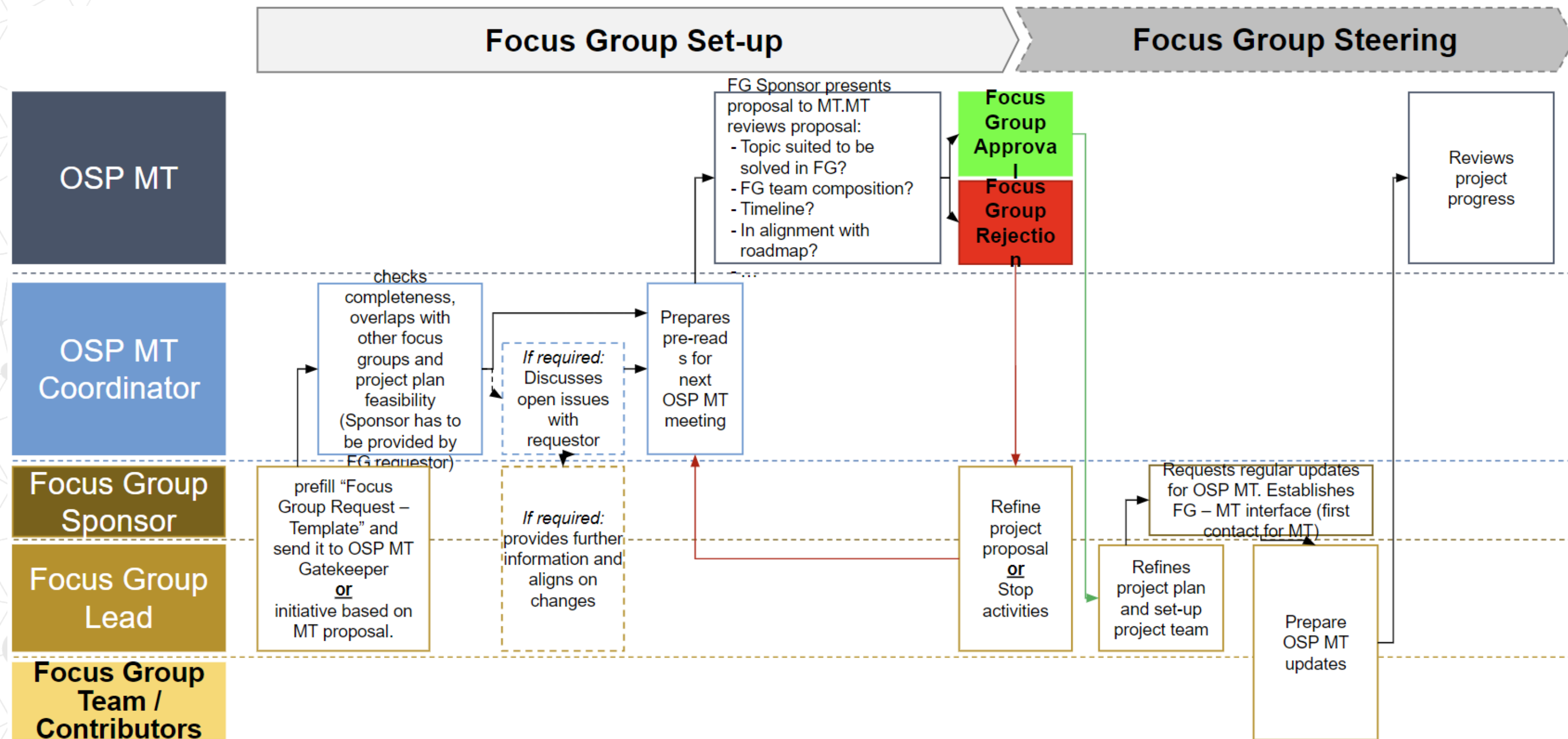
- Clear and aligned Focus Group Charter
- Self organizing units
- Close tracking of all ongoing activities through regular updates in OSP MT
- Transparent documentation (google drive) (further administrative harmonization to be discussed)



# Focus Groups: Organization

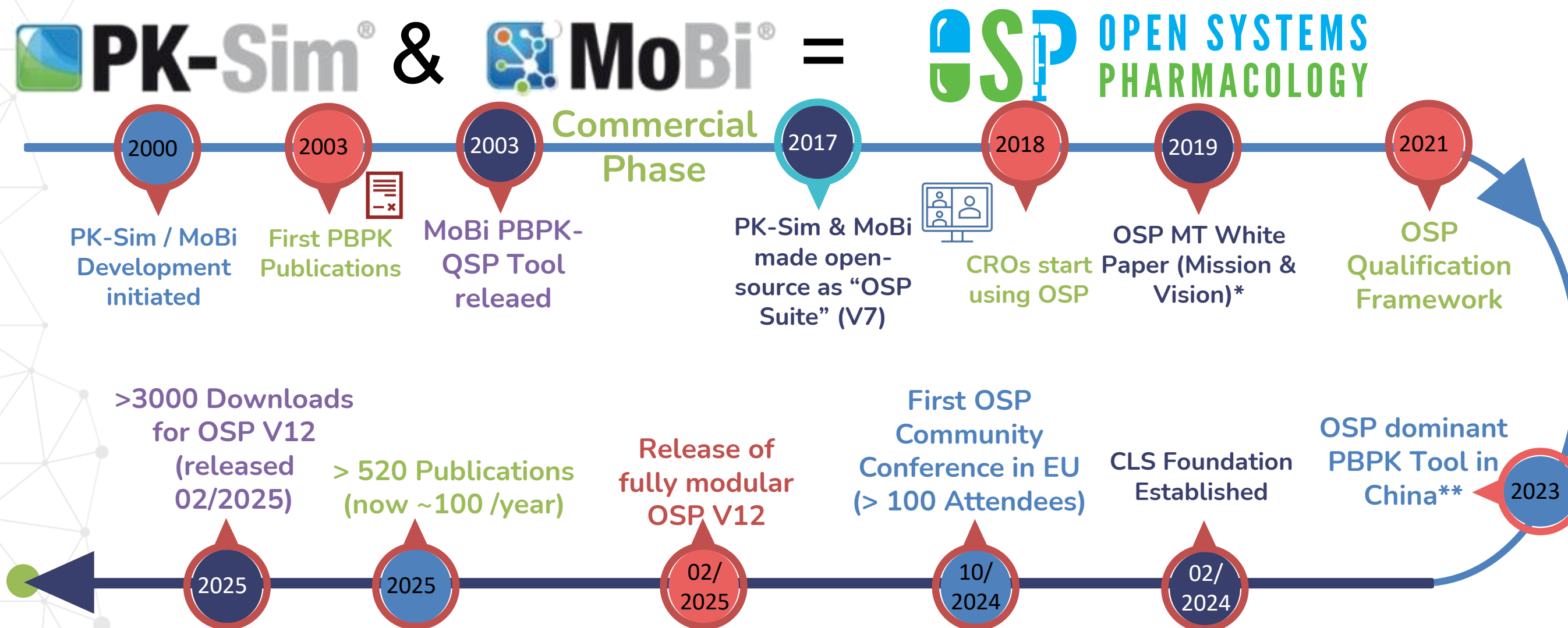


# Focus Groups: Set-up and Steering Process



# The OSP Journey so far

- An open-source Multiscale Physiologically-Based & Mechanistic Modeling platform which has been developed and refined for **20 years!**



\*<https://doi.org/10.1002/psp4.12473>




# The OSP Journey so far

## CPT: Pharmacometrics & Systems Pharmacology

Perspective |  Open Access |   

### Open Systems Pharmacology Community—An Open Access, Open Source, Open Science Approach to Modeling and Simulation in Pharmaceutical Sciences

Jörg Lippert , Rolf Burghaus, Andrea Edginton, Sebastian Frechen, Mats Karlsson, Andreas Kovar, Thorsten Lehr, Peter Milligan, Valerie Nock, Sergej Ramusovic, Matthew Riggs ... [See all authors](#) ▾

First published: 31 October 2019 | <https://doi.org/10.1002/psp4.12473> | Citations: 81

PK-Sim / MoBi  
Development  
initiated

First PBPK  
Publications

MOBI PBPK-  
QSP Tool  
released

Open  
Source  
Su

>3000 Downloads  
for OSP V12  
(released  
02/2025)

> 520 Publications  
(now ~100 /year)

Release of  
fully modular  
OSP V12

2025

2025

02/  
2025

[\\*https://doi.org/10.1002/psp4.12473](https://doi.org/10.1002/psp4.12473)

& Mechanistic Modeling  
for 20 years!



OSP OPEN SYSTEMS  
PHARMACOLOGY

2018


2019

2021

## CPT: Pharmacometrics & Systems Pharmacology

PERSPECTIVE |  Open Access |   

### Harnessing Open-Source Solutions: Insights From the First Open Systems Pharmacology (OSP) Community Conference

André Dallmann , Denise Feick, Pavel Balazki, Salih Benamara, Rolf Burghaus, Marylore Chenel, Siak-Leng Choi, Henrik Cordes, Mariana Guimarães, Abdullah Hamadeh ... [See all authors](#) ▾

First published: 03 April 2025 | <https://doi.org/10.1002/psp4.70028>

# Community Channels





# Website

[www.open-systems-pharmacology.org](http://www.open-systems-pharmacology.org)

**OSP** OPEN SYSTEMS  
PHARMACOLOGY

ESSENTIALS NEWS & RELEASE TUTORIALS PUBLICATIONS & MODELS MANAGEMENT TEAM NEWSLETTER

OPEN SYSTEMS PHARMACOLOGY

## PK-SIM® AND MOBI® FOR PBPK AND QUANTITATIVE SYSTEMS PHARMACOLOGY

Reliable, powerful and easy-to-use modeling & simulation tools for pharmaceutical and other life-sciences applications. Qualified and accepted by the scientific community including academia, regulatory agencies and industry. Available free to everyone.

LEARN MORE

# GitHub / Forum

User Community: Forum: [github.com/Open-Systems-Pharmacology/Forum](https://github.com/Open-Systems-Pharmacology/Forum)



## FORUM

Have your questions answered or provide answers to others. The Forum is a great way to stay up-to-date on the community buzz around OSP.

Open-Systems-Pharmacology / Forum

Search: Type / to search

Code Issues 1 Pull requests Discussions Actions Wiki Security Insights

**REGULATORY Submissions with OSP-Suite**  
Announcement · StephanSchaller

**OSP file formats are added to the FDA's white list of f...**  
Announcement · Yuri05

**Save the Date: OSP Community Conference...**  
Announcement · rwmcintosh

**OSP Suite Version 12 Update 1 released**  
Announcement · Yuri05

Search: is:open Sort by: Latest activity Label Filter: Open New discussion

**Categories**

- View all discussions
- Announcement
- Feature Requests & Ideas
- How-Tos
- Models
- Polls
- Questions & Problems

**Discussions**

Integrating in vitro dissolution model into PBPM when using lognormal distribution  
RobinM92 asked on Aug 12 in Questions & Problems · Answered

OSP Suite Version 12 Update 1 released  
Yuri05 started 4 days ago in Announcement

Rationale behind axes range  
GhazalMontaseri asked 5 days ago in Questions & Problems · Unanswered

Irinotecan model  
safgren asked last week in Questions & Problems · Unanswered



COMMUNITY CONFERENCE



# LinkedIn (& TWITTER / X)



Sie sehen diese Seite als Mitglied an.

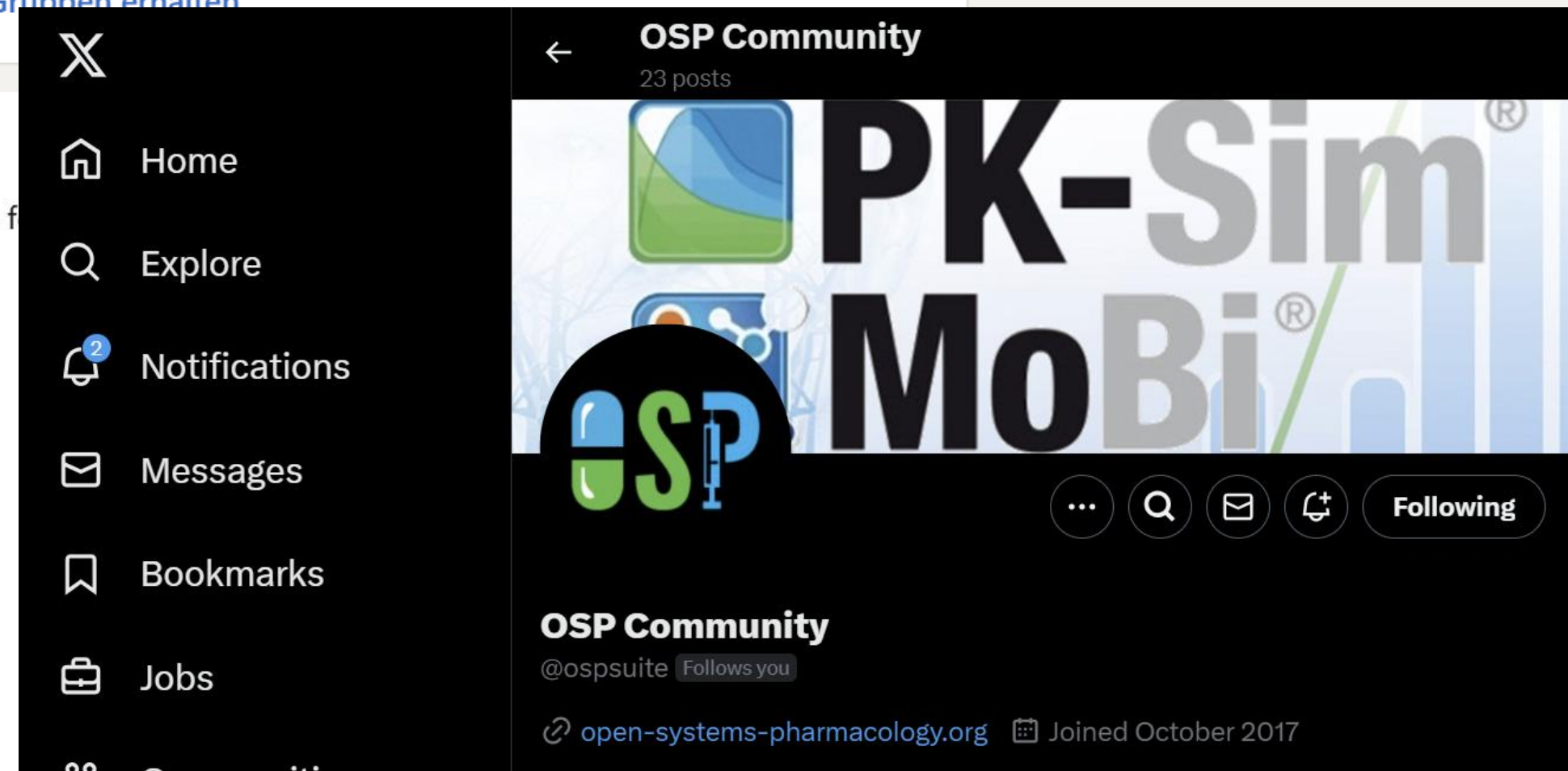


## Open Systems Pharmacology Management Team

An open community delivering powerful and qualified open-source content and M&S tools for sciences applications.

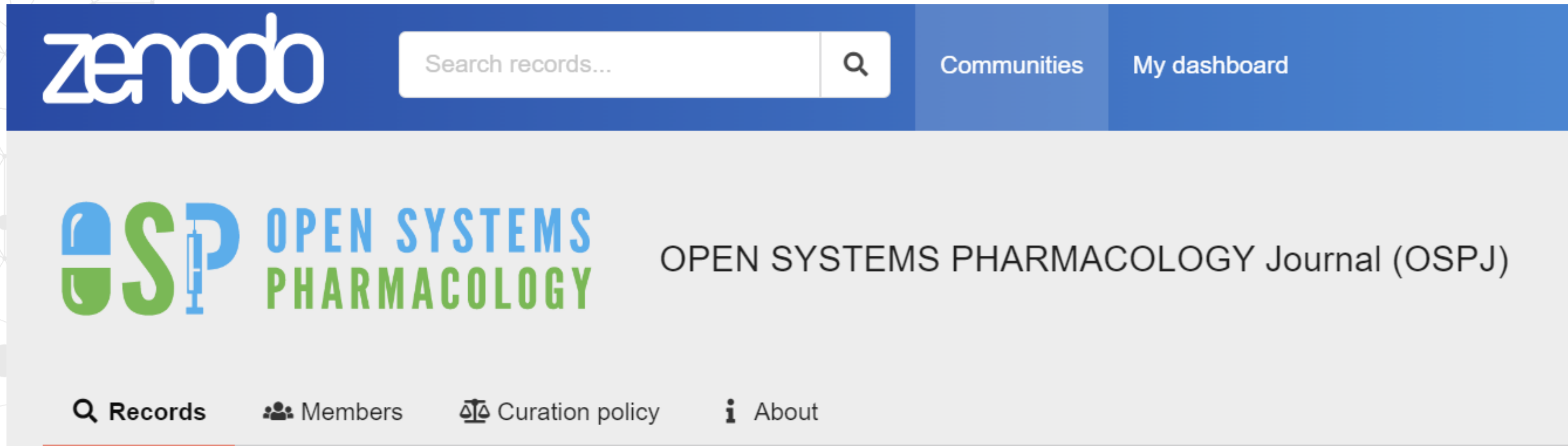
Forschungsdienstleistungen · Germany · 2 Tsd. Follower:innen · 11-50 Beschäftigte

 Rolf & 2 weitere Kontakte sind hier beschäftigt



# OSP Journal (Zenodo)

<https://zenodo.org/communities/ospj>



The screenshot shows the Zenodo website interface for the Open Systems Pharmacology Journal (OSPJ) community. The top navigation bar is blue and contains the Zenodo logo, a search bar with the placeholder text "Search records...", and two links: "Communities" and "My dashboard". Below this, the main content area has a light gray background. On the left, there is a large logo for "OPEN SYSTEMS PHARMACOLOGY" with "OSP" in large blue and green letters and "JOURNAL" in smaller green letters. To the right of the logo, the text "OPEN SYSTEMS PHARMACOLOGY Journal (OSPJ)" is displayed. At the bottom of the main content area, there is a horizontal menu with four items: "Records" (with a magnifying glass icon), "Members" (with a group of people icon), "Curation policy" (with a balance scale icon), and "About" (with an information icon). The "Records" item is currently selected, indicated by a red underline.

zenodo

Search records...

Communities

My dashboard

**OSP** OPEN SYSTEMS  
JOURNAL PHARMACOLOGY

OPEN SYSTEMS PHARMACOLOGY Journal (OSPJ)

Records Members Curation policy About

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# A Growing OSP Community



# Growth Metrics by Publications

Source 1: Global Bibliometric Analyses




Editor's Choice: Original Article



Open Access



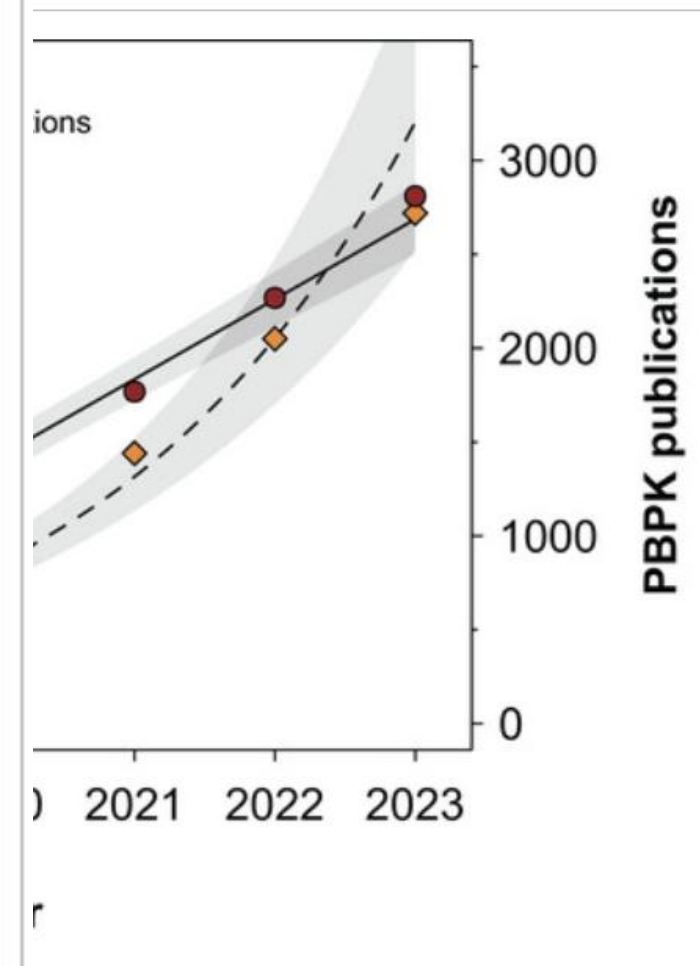
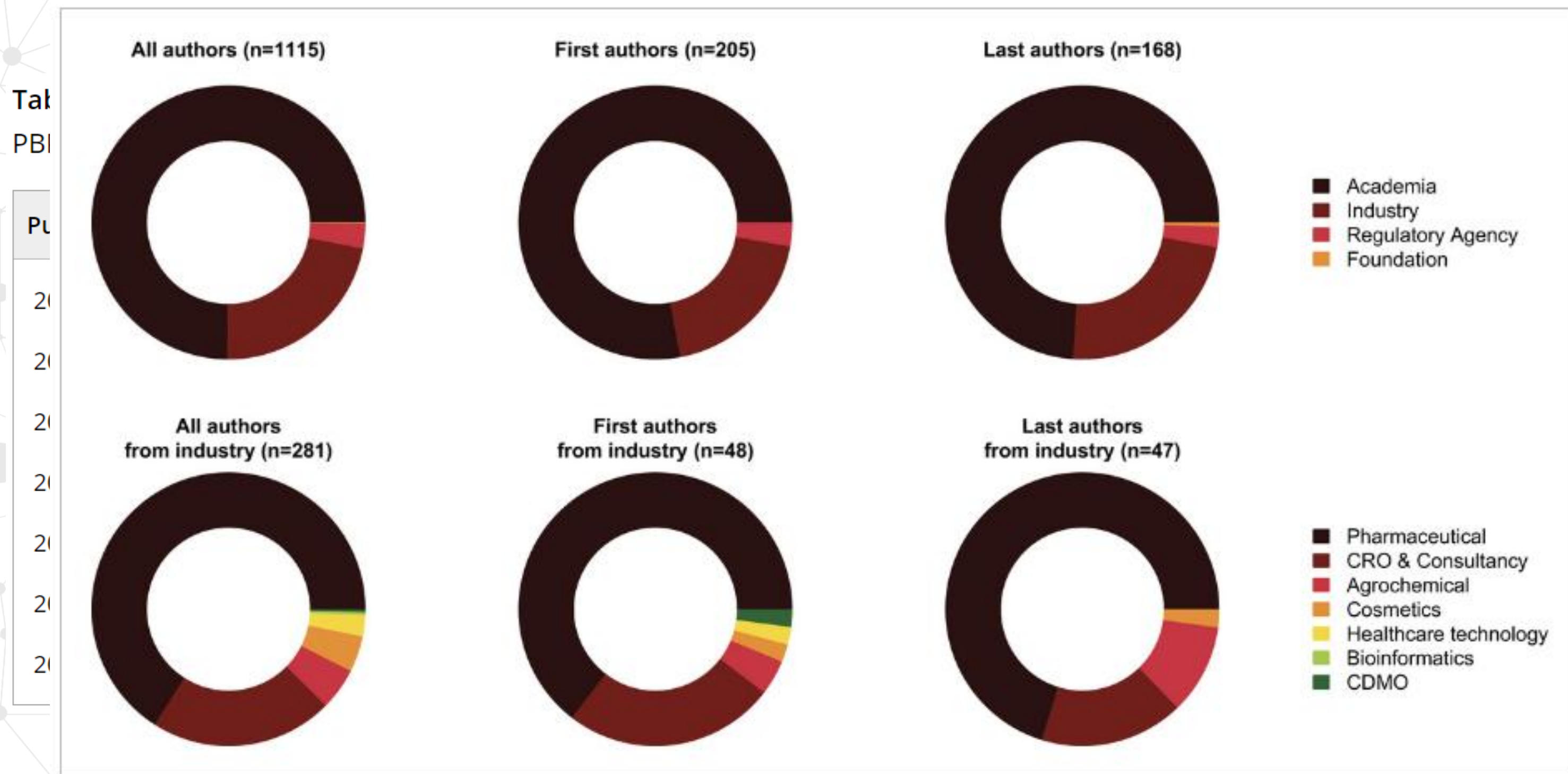
## **In-Depth Analysis of the Selection of PBPK Modeling Tools: Bibliometric and Social Network Analysis of the Open Systems Pharmacology Community**

André Dallmann PhD , Donato Teutonico PhD, Stephan Schaller PhD, Rolf Burghaus PhD,  
Sebastian Frechen MD



# Growth Metrics by Publications

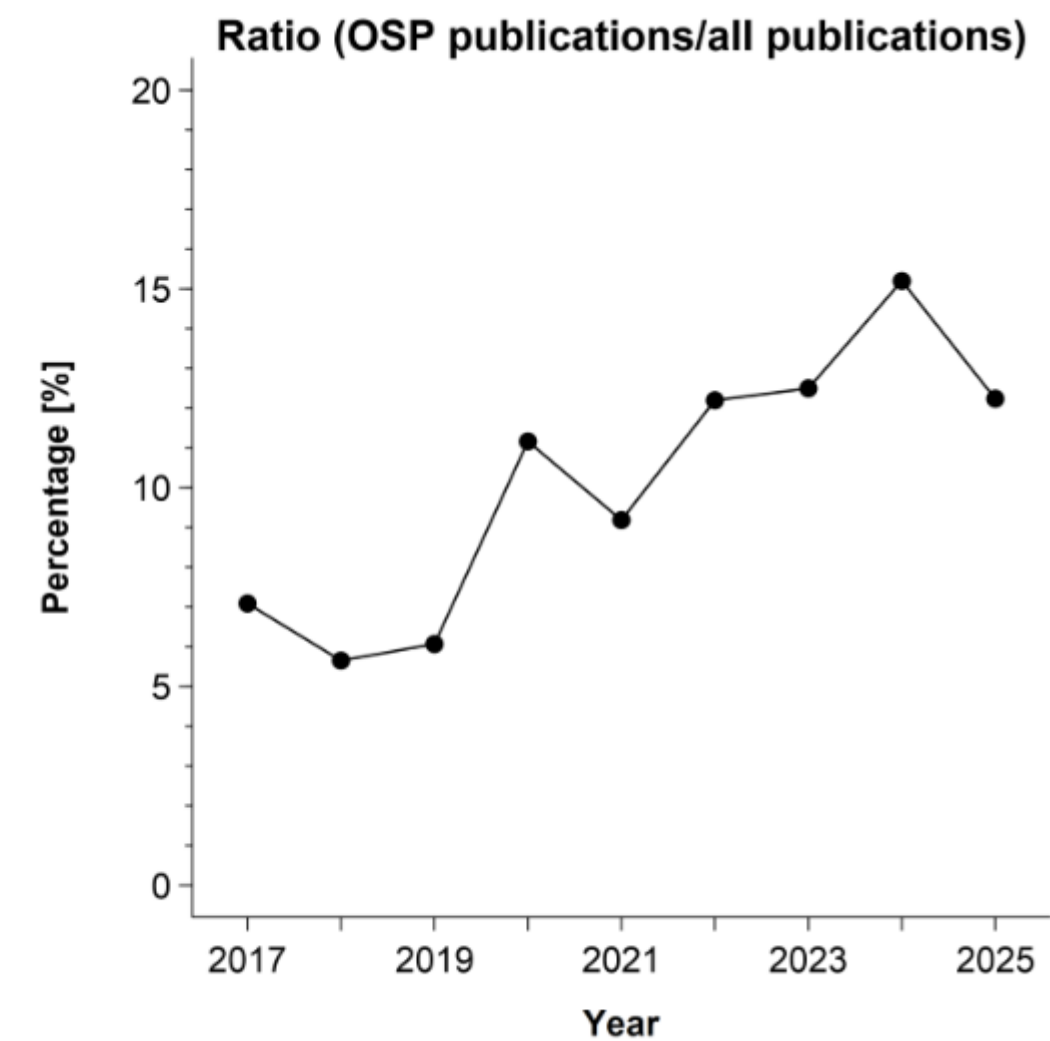
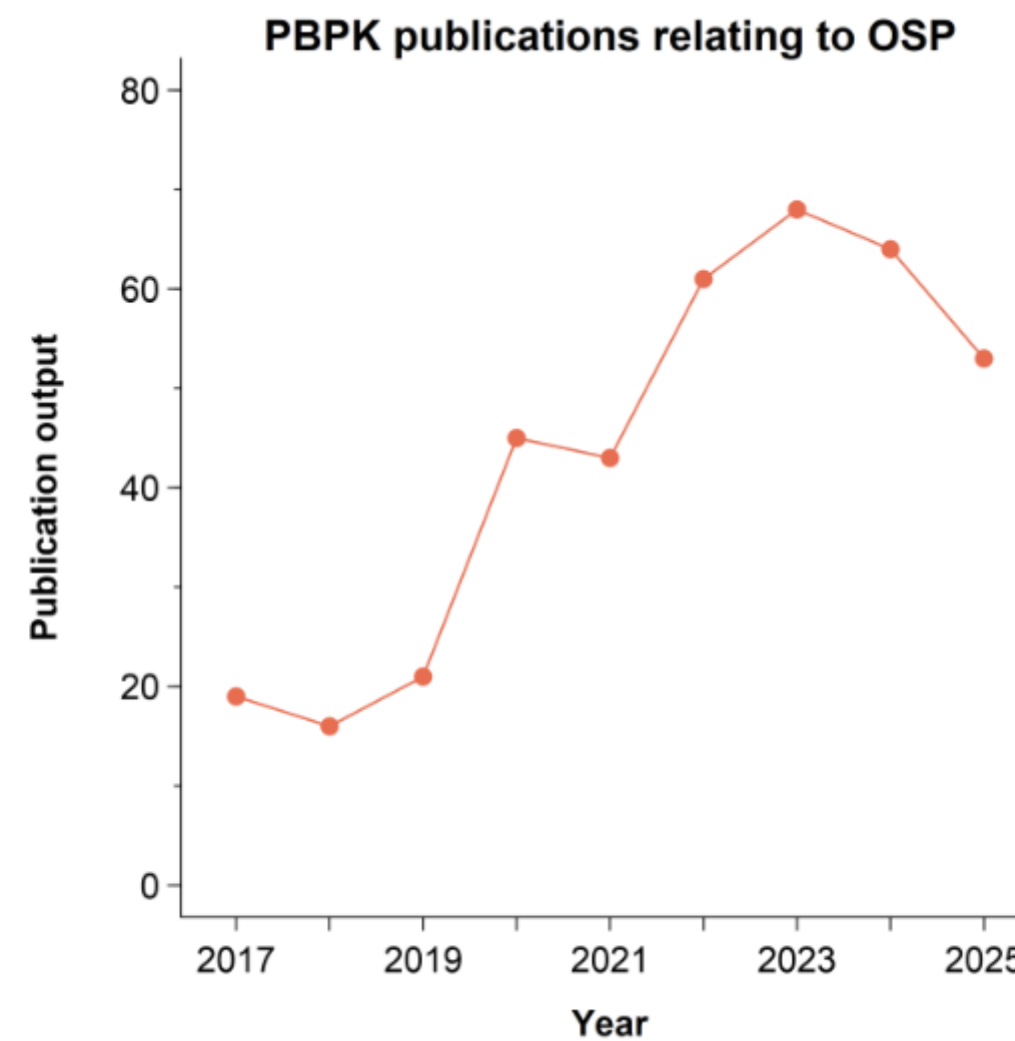
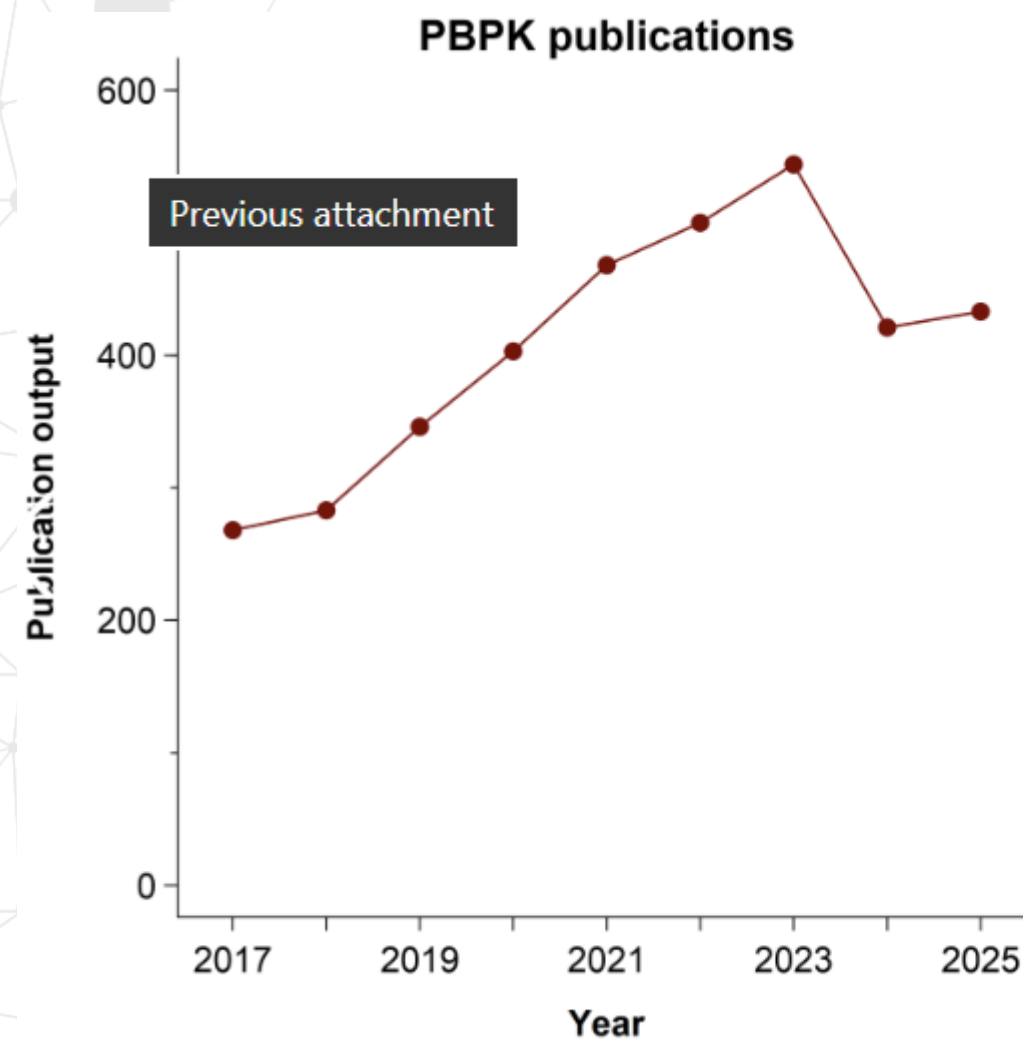
Source 1: Global Bibliometric Analyses (up to 2023)





# Growth Metrics by Publications

Source 1: Global Bibliometric Analyses (EXPANDED to 2025)



# Growth Metrics by Publications

## Source 2: China Bibliometric Analyses

REVIEW OPEN ACCESS

### PBPK Precision

Dongsheng Y  
Xiaoqiang Xi

<sup>1</sup>Department of  
National Medic  
Formulations f

Corresponde

Received: 15 C

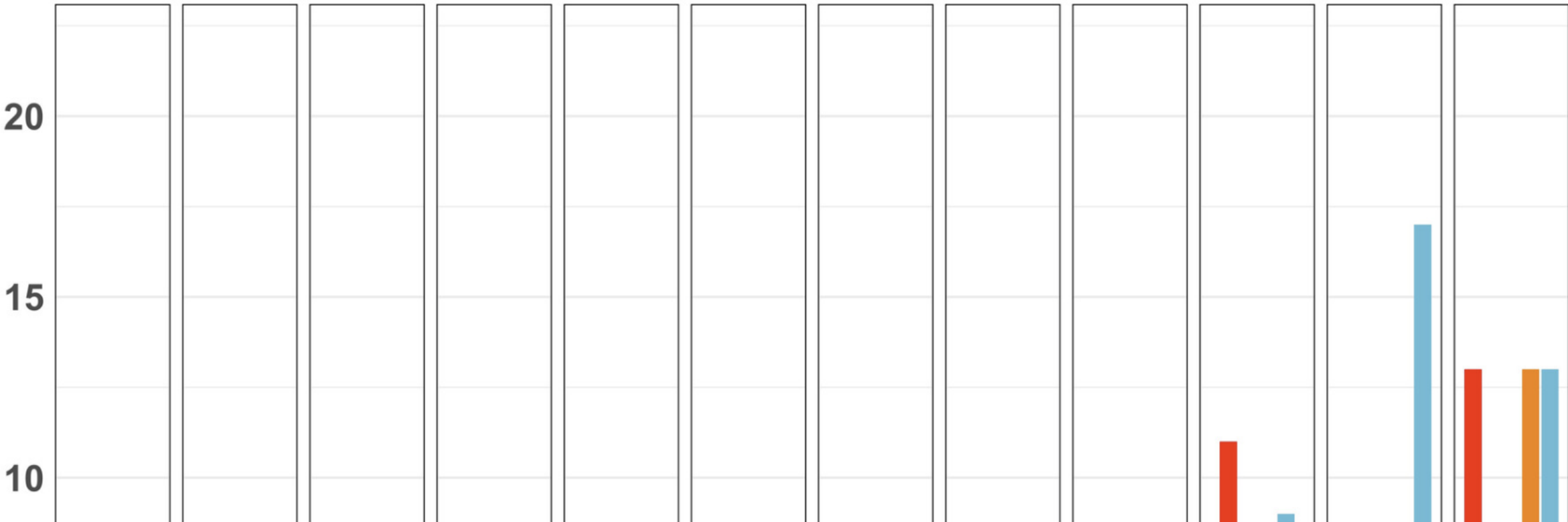
Funding: This

### ABSTRACT

Physiologically based pharmacokinetic (PBPK) modeling, a cornerstone of model-informed drug development and model-informed precision dosing, simulates drug disposition in the human body by integrating physiological, biochemical, and physicochemical parameters. While PBPK modeling has advanced globally since the 1970s, China's adoption of this technology has followed a distinctive path, characterized by accelerated growth over the past 2 decades. This review provides a comprehensive analysis of China's contributions to PBPK modeling, addressing knowledge gaps in publication trends, application domains, and platform preferences. A systematic literature search yielded 266 original PBPK research articles from PubMed up to August 08, 2024. The analysis revealed that drug disposition and drug–drug interaction studies constitute the largest proportion of PBPK analyses in China. Chinese universities and research institutions are the primary contributors to PBPK research in China. Although established commercial pharmaceutical industry, open-source platforms, and simulation software are increasingly used, GastroPlus, MATLAB, Pheonix WinNonlin, PK-Sim, and Simcyp remain the most prevalent tools for PBPK modeling in China. This review underscores the transformative impact of PBPK modeling on drug development and provides insights into future directions and challenges.

GastroPlus MATLAB Pheonix WinNonlin PK-Sim Simcyp

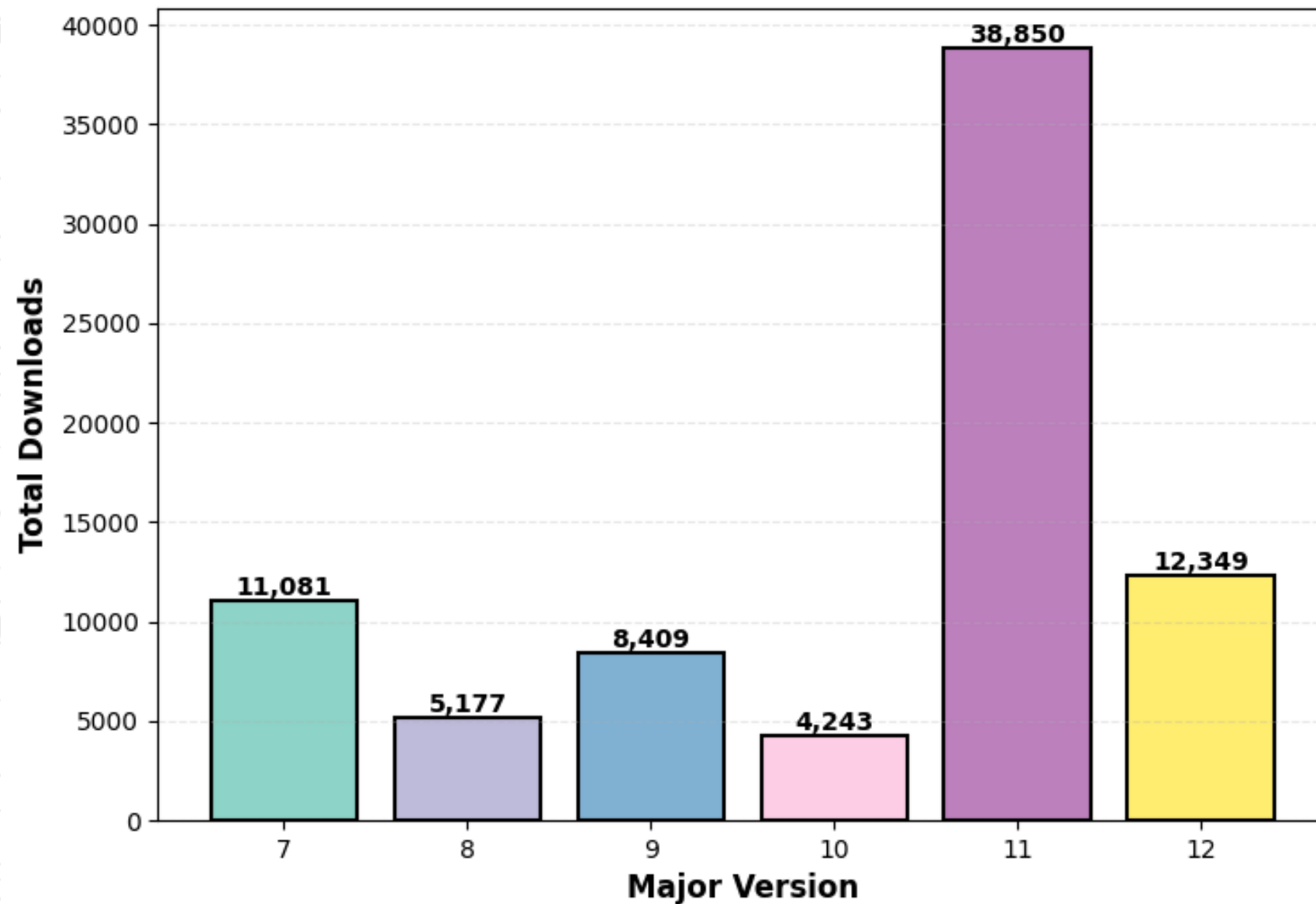
K Publications in China



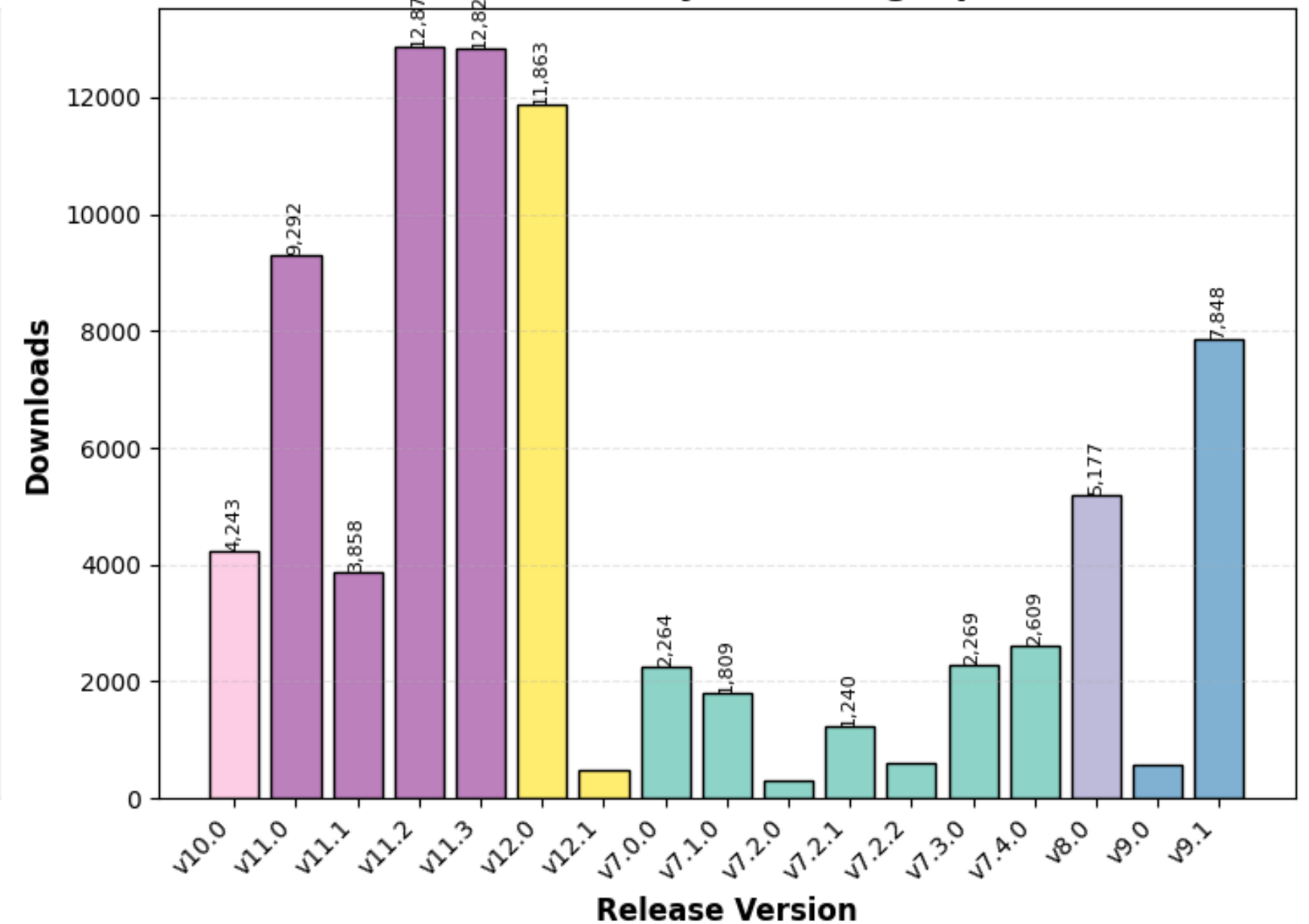
# Growth Metrics by OSP Suite Downloads

Source: GitHub

**OSP Suite Downloads by Major Version  
(Accumulated across all minor releases)**



**OSP Suite Downloads by Individual Release  
(Main .exe files only, excluding alpha/beta)**





# Growth?-Metrics by PAGE attendance ;-)

Source: PAGE OSP Booth Picture Time (we didn't coordinate well in 2025)







# OSP COMMUNITY: ONWARD

Sustaining Engagement and Collaboration  
for a continuing thriving Community



# Sustain Relevance of OSP

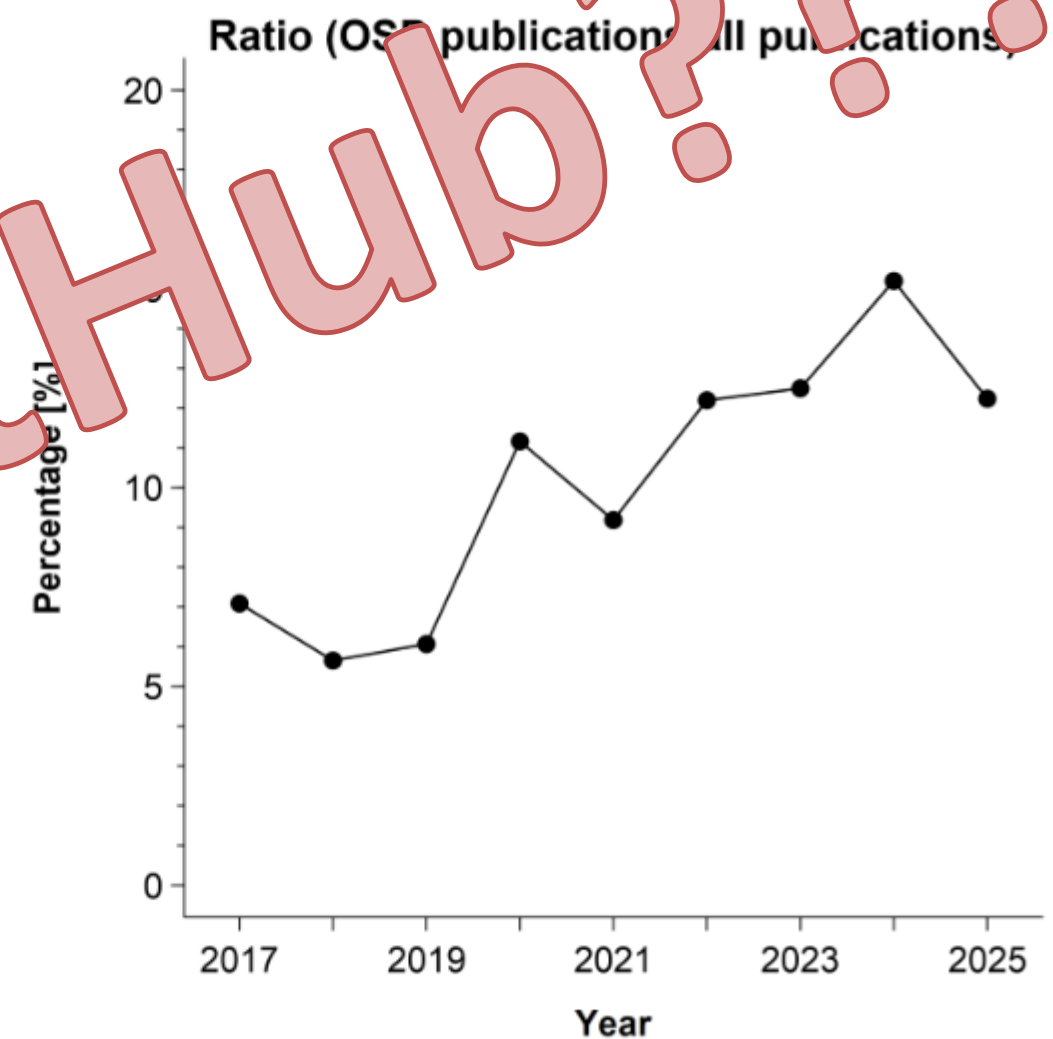
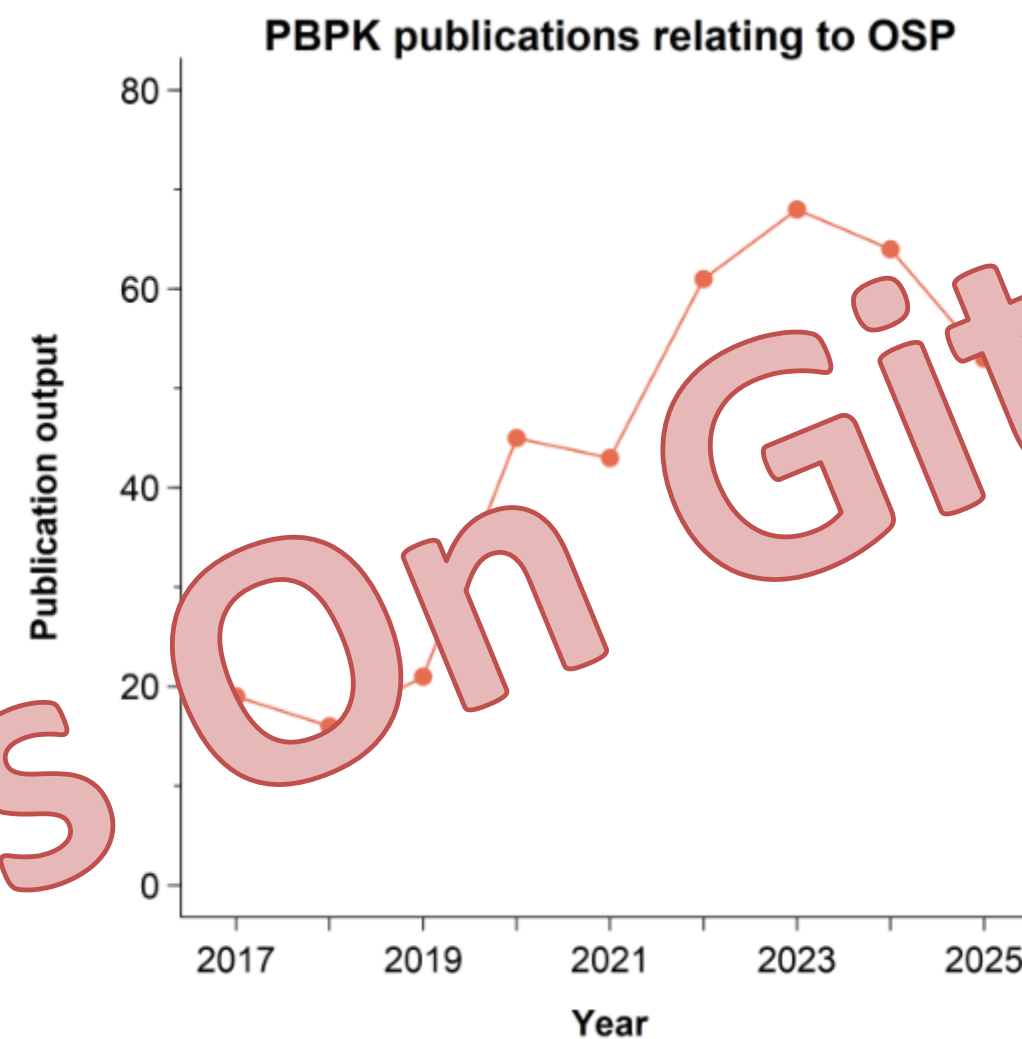
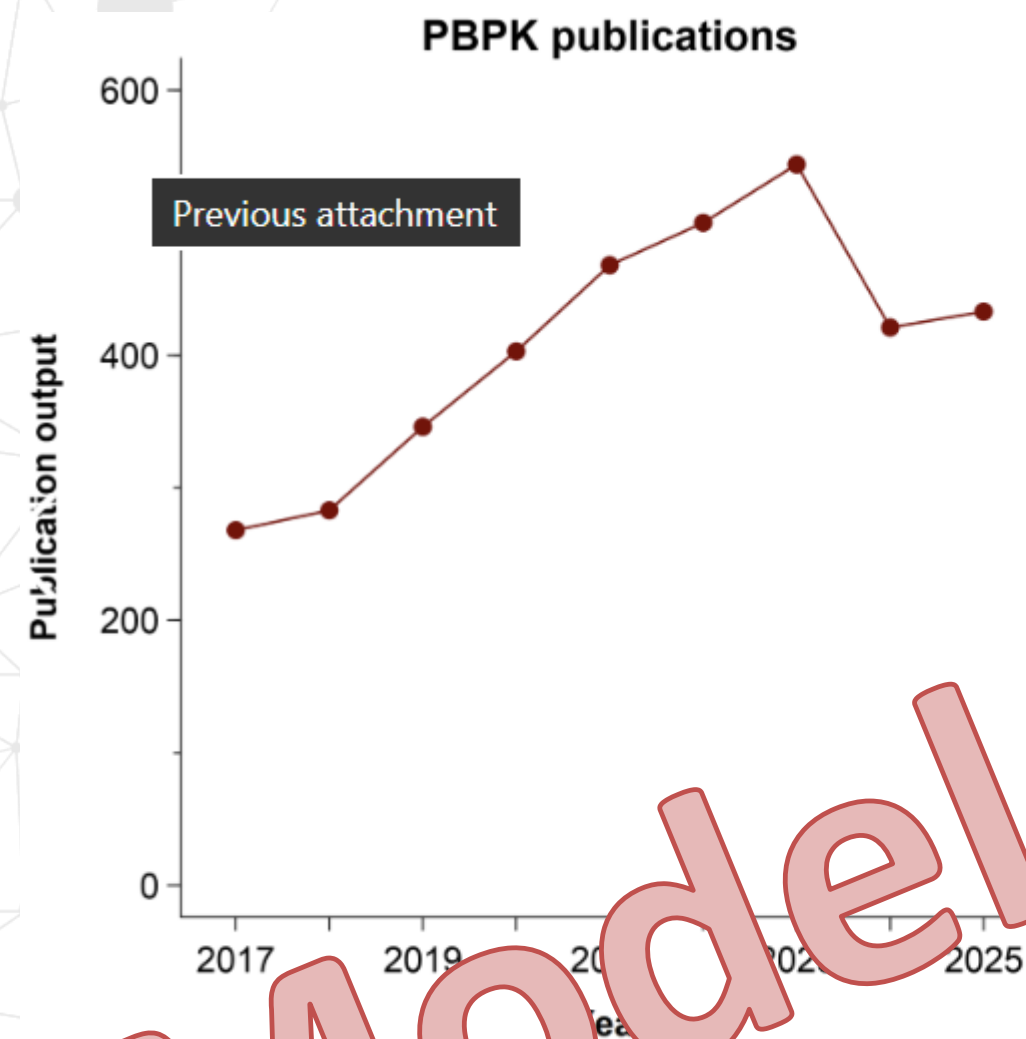




# Sustain Relevance of the OSP Suite & Community

- Models & Software Ressources...
  - ...Availability
  - ...Accessibility
  - ...Acceptance

# Model Availability?




# Model Accessibility?

## OSP Suite Version 12 Update 1 released

<a href="#">↓ Latest suite release can be found here</a>	<a href="#">Check our documentation</a>	<a href="#">? Need help? Visit the discussion forum</a>
<a href="#">ospuite-R</a>	<a href="#">Tutorials</a>	<a href="#">Journal publications</a>
<a href="#">How do I upload a model?</a>	<a href="#">OSP Roadmap</a>	<a href="#">Documentation for developers</a>

### Pinned

 **MoBi** Public

MoBi® is a software tool for multiscale physiological modeling and simulation

 C#  36  13




 **Forum** Public

Discussion forum for the Open Systems Pharmacology Project

 67  18

 **Suite** Public

Open Systems Pharmacology Suite Setup

 Rich text format  120  28

 **PK-Sim** Public

PK-Sim® is a comprehensive software tool for whole-body physiologically based pharmacokinetic modeling

 C#  129  56


 **OSP-Qualification-Reports** Public

Qualification Reports recreated with every new OSP Release

 3  8

 **OSP-PBPK-Model-Library** Public

Library of released PBPK substance models and evaluation reports

 31  24



OSP Suite Essentials

Releases & Set-up

PK-Sim

Platform-Qualifications

PBPK Model Library

MoBi

Systems Model Library

Manual

Forum

Qualification Framework

Reporting Engine

R-Toolbox

DDI Enzymes



Pediatrics



Obesity



DDI Transporters



Covid-19



Depression



# Model Acceptance

## Certification | Validation | Qualification

### Certification

- Independent peer review by  $\geq 2$  reviewers
- FORMALIZATION: Accepted by OSP MT (statement  $\rightarrow$  “OSP MT certified”)

### Qualification (only qualified content can be implemented in PKSim)

- Applicability (useful for others, predictability  $\rightarrow$  provide use cases)
- Reasonable results (might not be acceptable for high impact results (poor data availability, ...))
- [Note: Relation to PBPK best practice document(s)]

### Validation

- Technical robustness

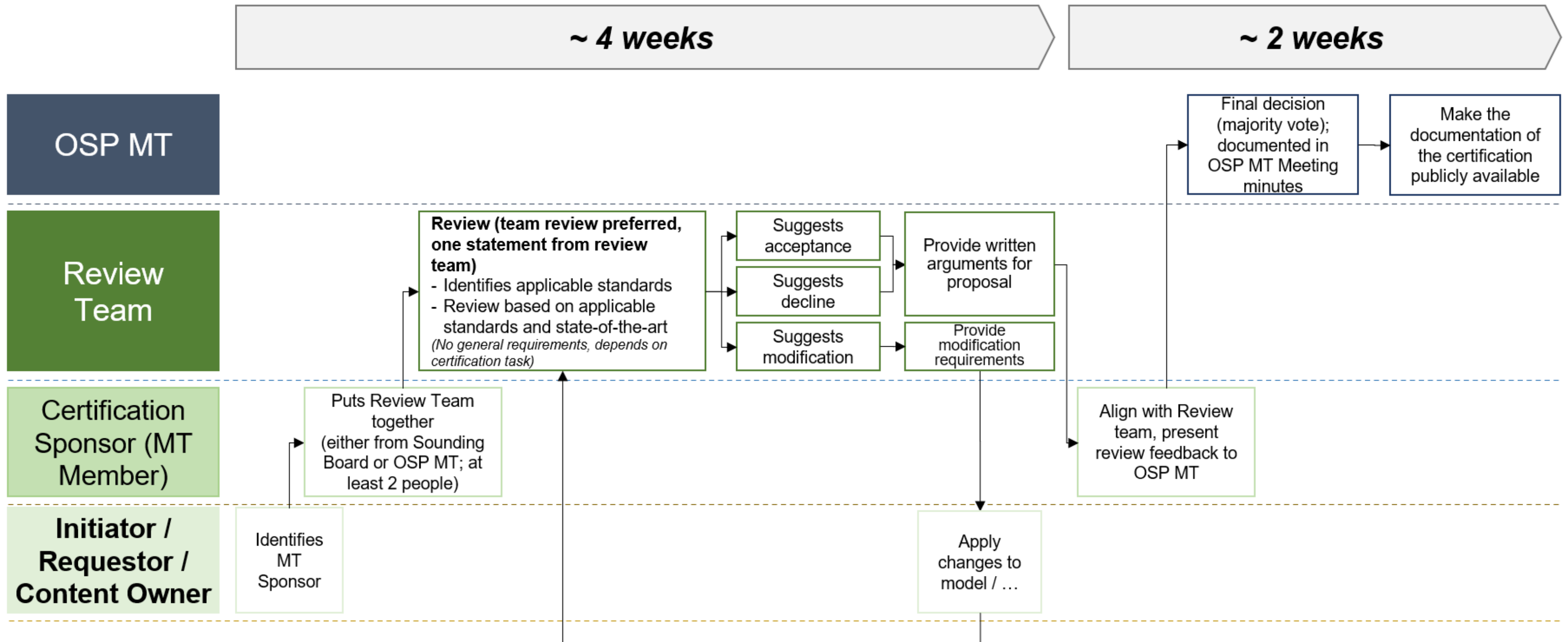
# Certification: Models, Tools & More

**Goal:** Provide review and **certification as a learned society** applying fully transparent processes

- Provide PBPK and systems pharmacology based approaches, best practices, systems and tools that are **evaluated regarding their compliance with (regulatory) guidelines** and state-of-the art modelling / software **qualification approaches**
- Ensure that the **certification** can be done **in a sustainable way** that allows for (re-)qualification with each software version release **supported by automated processes**

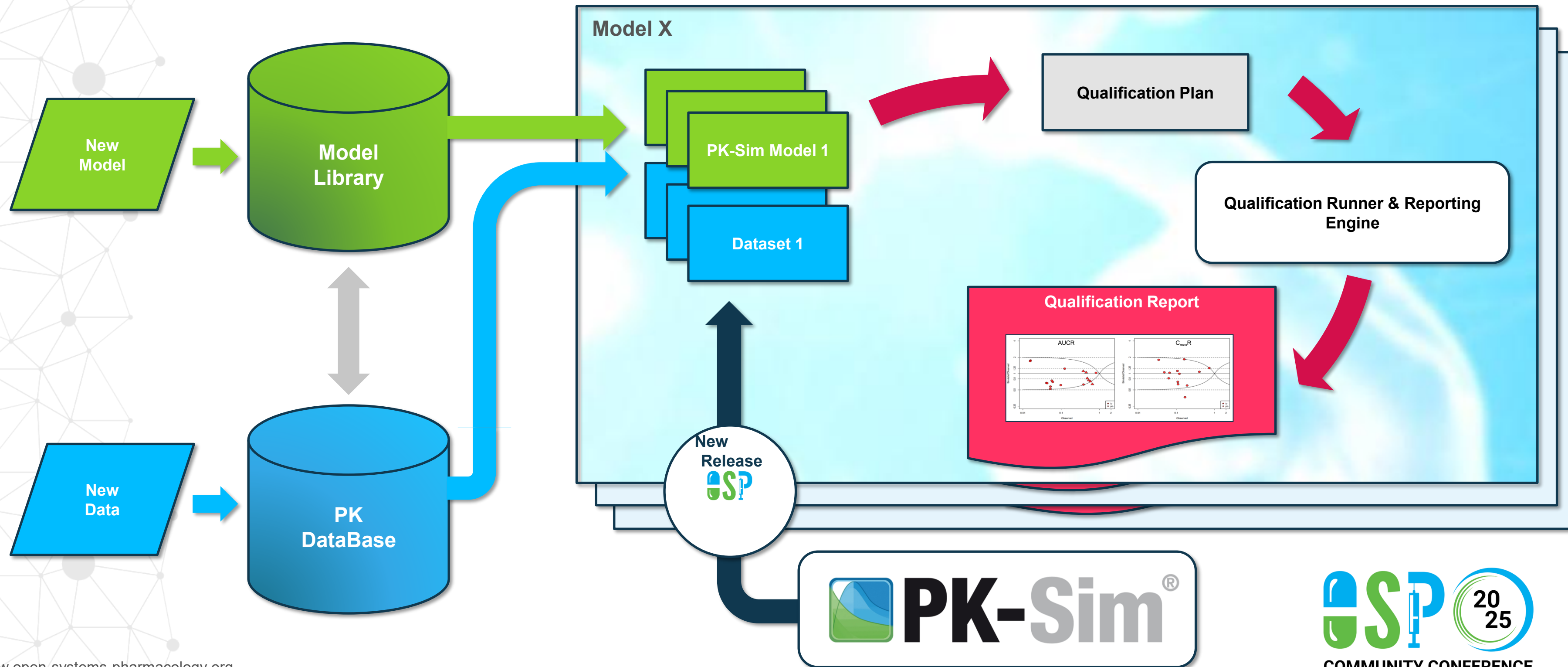


# Certification Process



# Community-Driven CoU Qualification Framework

## Automatic (Re)-qualification Workflow



# Regulatory Submissions with PK-Sim

Just to be sure:

“OSP file formats are added to FDA's white list of file formats for electronic submissions”

- The following OSP file formats are included:
- **.pksim5** (PK-Sim project file)
- **.mbp3** (MoBi project file)
- **.pkml** (OSP model exchange format)
- **.json** (PK-Sim project snapshots file)

## *Specifications for File Format Types Using eCTD Specifications*

Revision History		
Date	Version	Summary of Changes
2023-12-01	9.0	Updated .docx permissible uses Updated .xml accepted locations and permissible uses Removed “CDER Only” from permissible uses for: .csv, .cas, .dat, .rmd, .r Updated file format added: Modeling & Simulation file types: .pksim5, .mbp3, .pkml, .json, .mlxtran, .mlxproperties, .pkx, .pkxproperties, smlx, .smlxproperties, .sync, .datxplore



# Further Increasing Acceptance

- FDA Model Master File (MMF)
  - Master File for standardized model documentation and validation data that FDA can reference across multiple submissions
  - Focuses on regulatory efficiency and consistency through standardization (models can be proprietary OR open-source)
- EMA Qualification Opinion
  - Public scientific opinion **confirming a model/method is suitable** for specific Context(s) of Use in regulatory decision-making
  - Once qualified, sponsors can **use without re-establishing platform credibility**, with all qualification data becoming publicly available
- ...all requires effort = budget = funding

# Funding OSP



# Funding Sources for OSP

- Software
  - In-Kind Contributions (Bulk of “Ressources”)
    - Individual Stakeholders (Companies & Individuals)
  - Dedicated Industry Sponsoring for Feature Development
  - Grants
- Models & Qualified Content
  - In-Kind Contributions (Bulk of “Ressources”)
    - Individual Stakeholders (Companies & Individuals)
  - Dedicated Industry Sponsoring for CoU Qualification
  - Grants
- → No steady and continuous stream of “funding”, especially for software “maintenance”



# Initial Idea: OSP Foundation

- Institutionalization of the project “open system pharmacology” in a non-profit organization (NPO) to promote the public health care system (§ 52 Abs . 2 Nr. 3 AO) and / or to promote science and research (§ 52 Abs . 2 Nr. 1 AO).
- General conditions:
  - NPO must be able to participate in legal transactions
  - participation opportunities for non-profits and for-profits
    - donors, companies (all sizes), individuals, academic partners like universities or other research institutions
  - Contributions can be financial, cooperational, ideational

# Implemented: CLS Foundation

(clsfoundation.org)



## **COMPUTATIONAL LIFE SCIENCES FOUNDATION**

*Advancing Computational Life Sciences through Open  
Collaboration*



## CLS FOUNDATION ACHIEVES US PUBLIC CHARITY CERTIFICATION!

We are now officially certified as a US Public Charity through NGOsource's Equivalency Determination.  
Read more about this milestone and what it means for global open science collaboration.

[Read the News](#)

the R&D landscape through open cooperation and innovation.

[ABOUT OUR FOUNDATION](#)

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# SUPPORT OUR MISSION

Help us drive innovation in life sciences through open source software

[!\[\]\(d3102649f02e825ddb76dc3de0190154\_img.jpg\) SUPPORT](#)[!\[\]\(4b7a79268f6ba26c1471d4232fffa85a\_img.jpg\) SPONSOR](#)[!\[\]\(95b425611cbd2b8716a140cf67c81822\_img.jpg\) DONATE](#)

Interested in other ways to support our mission? **Contact us** to discuss corporate giving, matching programs, or planned donations.

## SUPPORT

Support is directed towards specific projects or initiatives. By supporting our projects, you help ensure their continued development and maintenance.

 **OSP SUITE WEB UI (FOR MAC)**

Support the development of our OSP Suite Web UI

 **SUPPORT SPECIFIC FEATURE IMPLEMENTATION**

# What can the CLS Foundation stand for?

- A means to empower the Community with the funding received from Foundation/Consortium Member Organizations
- Funding of:
  - Integrative Efforts for the Software/Models Ecosystem,
    - Enabling 3A: Availability, Accessibility, and Acceptance
  - Qualification and Regulatory Acceptance
  - Organize Events (Connect to Collaborate),
  - Synergy-Driving activities, and
  - (seed-fund?) Focus Group Initiatives

# THANK YOU!

- Feedback Form

- Use throughout for any feedback



- Questionnaire

- For structured post-conference feedback

