Effiris members observed a 5-15% improvement in MCC across their internal hERG data when using the Hybrid Effiris model, in comparison with a model trained using private data alone!

Effiris utilises a methodology based on the student-teacher approach to enable the transfer of knowledge from private data into sharable models, without disclosing any of the underlying data.

Lhasa’s multiparty Student model outperforms each individual Teacher model when using a consolidated, publicly available test set (Preissner hERG).

Performance of student hERG model compared to teacher models (MCC)**

**The Matthews correlation coefficient (MCC) is used in machine learning as a very harsh measure of performance.

How do Effiris models perform against proprietary data?

Introducing the hybrid Effiris model

Effiris members observed a 5-15% improvement in MCC across their internal hERG data when using the Hybrid Effiris model, in comparison with a model trained using private data alone!

Lhasa have applied the Effiris methodology to an extensive range of secondary pharmacology endpoints. If you are interested in exploring the value of this approach within your organisation, please get in touch.

Find out more

Effiris web page
Poster: From Private Data to Shared Knowledge
Blog Article: A secondary pharmacology model suite powered by privacy-preserving data sharing
Request a demonstration

References
https://doi.org/10.1021/acs.jcim.8b00150

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