



Metrion Biosciences is a specialist ion channel focused CRO delivering a range of high quality drug discovery services.

Metrion provides highly skilled electrophysiology screening services to support client medicinal chemistry optimisation programmes, FDA CiPA-compliant cardiac safety profiling assays, neuroscience and neurotoxicology assays, and phenotypic translational assays using native and iPSC derived cells. Metrion offers flexible business models on a fee-for-service or FTE basis.



Domainex delivers highly innovative, integrated drug discovery outcomes from its Medicines Research Centre near Cambridge, UK.

Domainex provides protein expression, assay development, virtual and fragment screening to generate hit compounds. Our team of expert computational and medicinal chemists is able to design and optimise these hits. Simultaneously our bioassay scientists (and those from Metrion) and our analytical chemists provide *in vitro* pharmacology and ADME/tox support for the rapid identification of clinical drug candidates.



CASE STUDY

Identification of antagonists of the TRPA1 ion channel using a *LeadBuilder* approach



- Located close to Europe's leading bioscience hub in Cambridge, **Domainex** and **Metrion Biosciences** are partnering, so their complimentary expertise can benefit clients by offering a seamless, one stop solution.
- **Domainex** has an established proprietary virtual screening platform, *LeadBuilder*, for identifying novel hit matter for structure- or ligand-guided drug discovery projects.
- *LeadBuilder* has demonstrated success in identifying optimisable hit compounds.
- **Metrion Biosciences** offers access to a suite of high quality ion channel focused assays. We used our assay and drug discovery expertise to identify genuine TRPA1 antagonists as seed structures for this virtual screen.

As part of their strategic collaboration, Metrion and Domainex identified antagonists of the transient receptor potential cation channel TRPA1, which may have utility for treatment of pain and chronic cough.

