SYNAPCELL

Your Drug Efficacy.
Now Revealed.

Unbiased outcomes. Delivered.

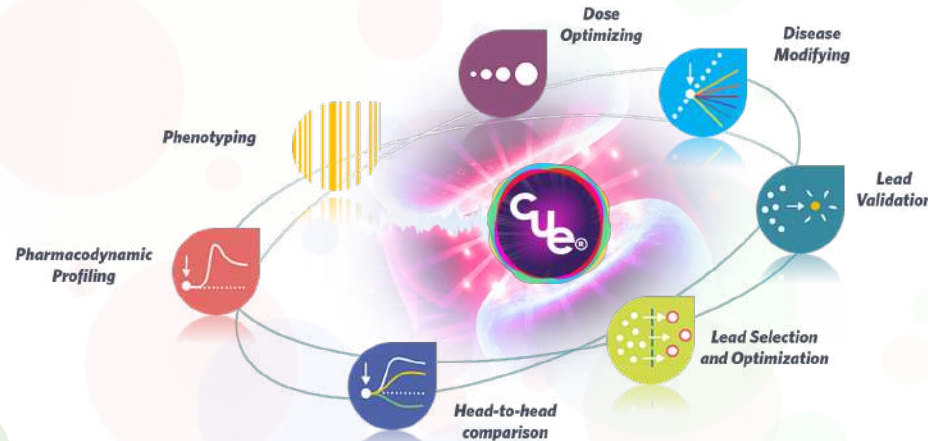## Make the Decisions that matter. Now.

- Today's preclinical brain drug discovery lacks **predictive biomarkers** of in-human efficacy, leading to dramatic attrition rates at Clinical Phases II & III.

- Inspired by the clinical practice, we apply **quantitative EEG** methods (qEEG) on translational models to address this unmet need for predictivity.

- Neural network oscillations are indeed known to be altered in various brain disorders. Disease-specific **oscillatory signatures** can be used as surrogate biomarkers for drug discovery.

- Named **Cue®**, our powerful qEEG-based technology platform was designed to help our clients **make better-informed decisions** as it delivers reliable insights on drug efficacy right from brain oscillations.

Powerful Pharmacodynamic assays.

- Cue® combines high-end brain recording capabilities, proprietary signal processing, clinically-relevant animal models mimicking human diseases, and a team with strong skillsets in Neuroscience and Pharmacology.

- To your specific question, Cue® delivers precise **functional profiling** of your compounds with high reproducibility levels, objective endpoints and robust datasets.

Compound testing capabilities that include :

- Surface to deep brain recording
- *In vivo* exclusive assays
- Freely-moving translational models
- Crossover clinical protocols
- Ability to compare to reference drugs

Phenotyping · Dose Optimizing · Disease Modifying · Lead Validation · Lead Selection and Optimization · Head-to-head comparison · Pharmacodynamic Profiling · Cue®

Neuroscience expertise.

⚡ EPILEPSY

- Partial and generalized epilepsies
- Stable and spontaneous discharges
- Biomarkers: SWD and HPD
- Models: MTLE mouse and GAERS rat
- Non-convulsive models
- Anti-epileptic effect- Derisking
- Disease-modifying – Epileptogenesis - Screening

🖧 COGNITIVE

- Schizophrenia, Alzheimer's disease, Autism
- Pharmaco-induced oscillations
- Auditory-evoked potentials
- Biomarkers: ASSR and AERPs
- Defects in information processing
- Pro-cognitive effect

🕴 MOVEMENT

- Parkinson's, Dyskinesia and Essential Tremor
- Motor-related abnormal oscillations
- Biomarkers: BetaPARK and GammaPARK
- Models: 6-OHDA rat and Harmaline mouse
- Antidyskinetic effect – anti-parkinsonian effect
- Acute or chronic protocols

✛ EXPLORATORY

- Want to check your compound effect on brain oscillations?
- Wishing to phenotype your own model?
- Having massive EEG data to analyze?

You can then benefit from our **Exploratory program** to answer these questions. We also offer you to move forward by taking advantage of our **Derisking program** to unveil potential side effects (pro-epileptic, pro-kinetic, toxicity...) of your compound.

Partnering with SynapCell

👥 TEAM
We're experts in Neuroscience, Pharmacology, and Brain Surgery.

📢 REPUTATION
Over 13 years supporting preclinical drug development for international companies of all sizes.

✅ QUALITY
Quality management system, with SOPs. Animal welfare and EU guidelines compliance.

💡 INNOVATION
Strong Research & Innovation. Solid Pipeline. No outsourcing.

> *Personalized Study design*

> *3 to 6 weeks to result*

> *Comprehensive Report*

PREDICTIVE BIOMARKERS
DECISION-MAKING ASSAYS
CNS EXPERTISE

SynapCell is a preclinical stage biotechnology company focused on Central Nervous System disorders. Since 2005, our CRO activity supports international pharmaceutical companies in revealing the therapeutic potential of their compounds in development. Cue®, our predictive decision-making solution comes with a large set of assays specifically designed for Drug Discovery applications. Quantitative, Cue® uses the power and sensitivity of Electro-Encephalography (EEG) to identify functional biomarkers of neurological diseases in vivo, with remarkable human translatability. Our returning customers in USA, Japan, Korea or Europe helped the company establish a solid reputation on the market and is the basis for long-lasting successful business partnerships.

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