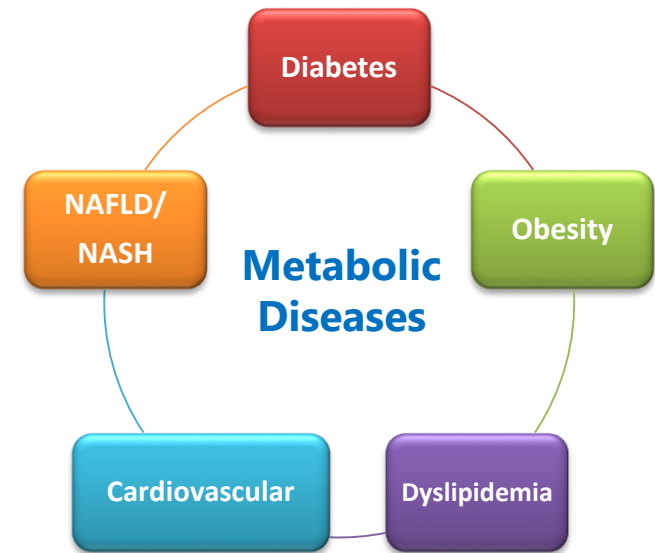


Metabolic disease capabilities



Cardiovascular

- **Animal Models:** MCAO ischemia CIRI, myocardial ischemia/infarction, reperfusion, heart failure, atria fibrillation PAH, tail bleeding
- **Measurements:** Blood coagulation (PT, TT, APTT, FIB), telemetry blood pressure monitoring, AV shunt

Diabetes

- **Animal models:** db/db mice, ZDF rats and DIO/STZ mice/rats; DN models
- **Measurements:** oGTT (mouse/rat), ipGTT (mouse/rat), ivGTT (rat), ITT (mouse/rat) and glucosuria, albuminuria, neuropathic pain,

Obesity

- **Animal model:** DIO
- **Measurements:** Acute/ chronic food intake, BW studies, Body composition (ecoMRI), biochemical biomarkers, pathology

Dyslipidemia

- **Disease models:** NAFLD, NASH (HFD, HFD-CCL4)
- **Measurements:** Acute lipid tolerance, Chronic studies to monitor TG, cholesterol, biomarkers, histology and scoring.

Other Models

Respiratory

- **Animal Models:** Asthma and COPD (smoke)
- **Measurements:** lung function , unrestrained whole body plethysmography (rodent, guinea pig, dog and NHP)

Fibrosis

- **Animal Models:**
Liver: CCL4-HFD, CCL4, ANIT induced fibrosis
Lung: Idiopathic pulmonary fibrosis
Kidney: UUO induced fibrosis
- **Measurements:** biomarker, histology and scoring fibrosis

Gastrointestine

- **Animal Models:** DSS induced colitis; TNBS induced colitis
- **Measurements:** BW change, biomarkers, colon weight and length, histology and scoring

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CONTACT

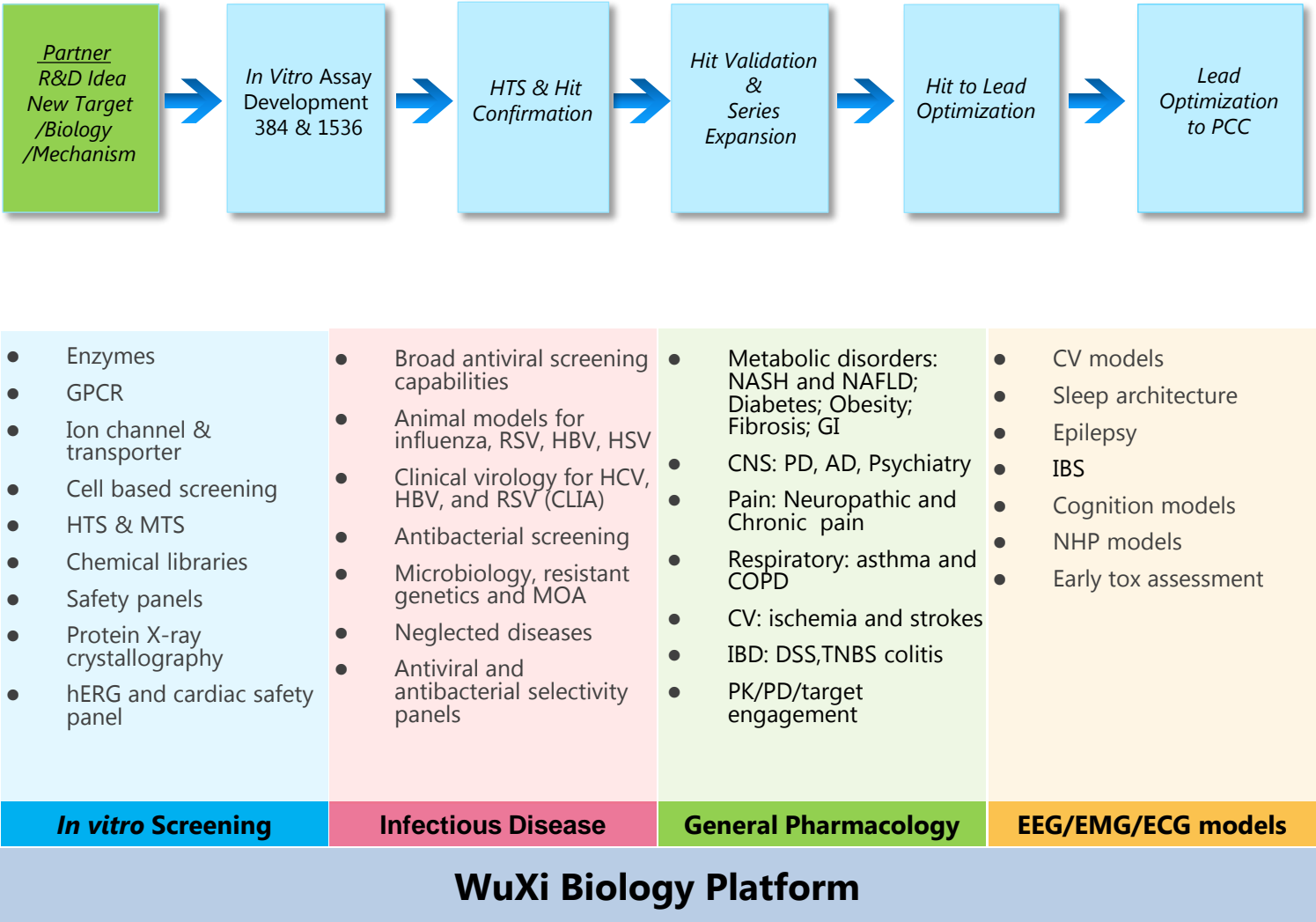
Henry Lu
Vice President, WuXi Biology
Henry_lu@wuxiapptec.com

Changqing Cao
Executive Director
Cao_changqing@wuxiapptec.com

Siyuan Le
Senior Director
Le_siyuan@wuxiapptec.com

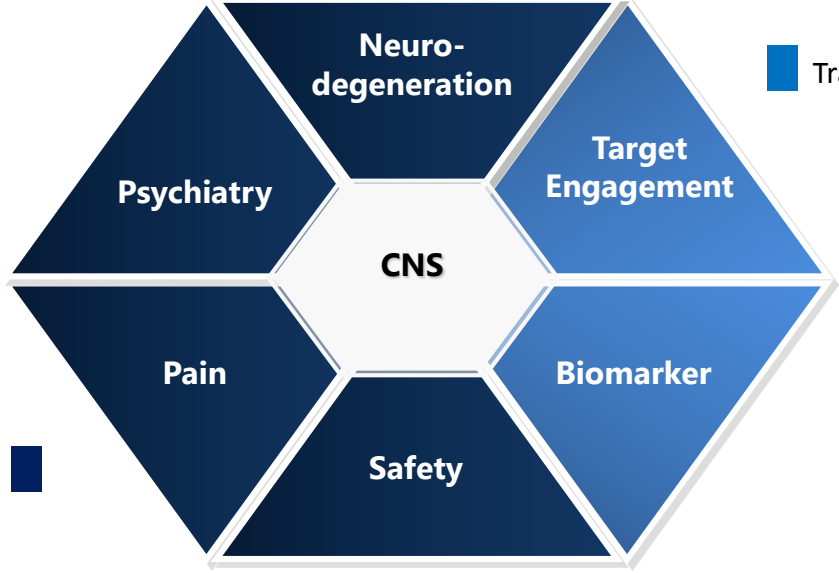


One Stop Shop at WuXi – Integrated Discovery Road Map

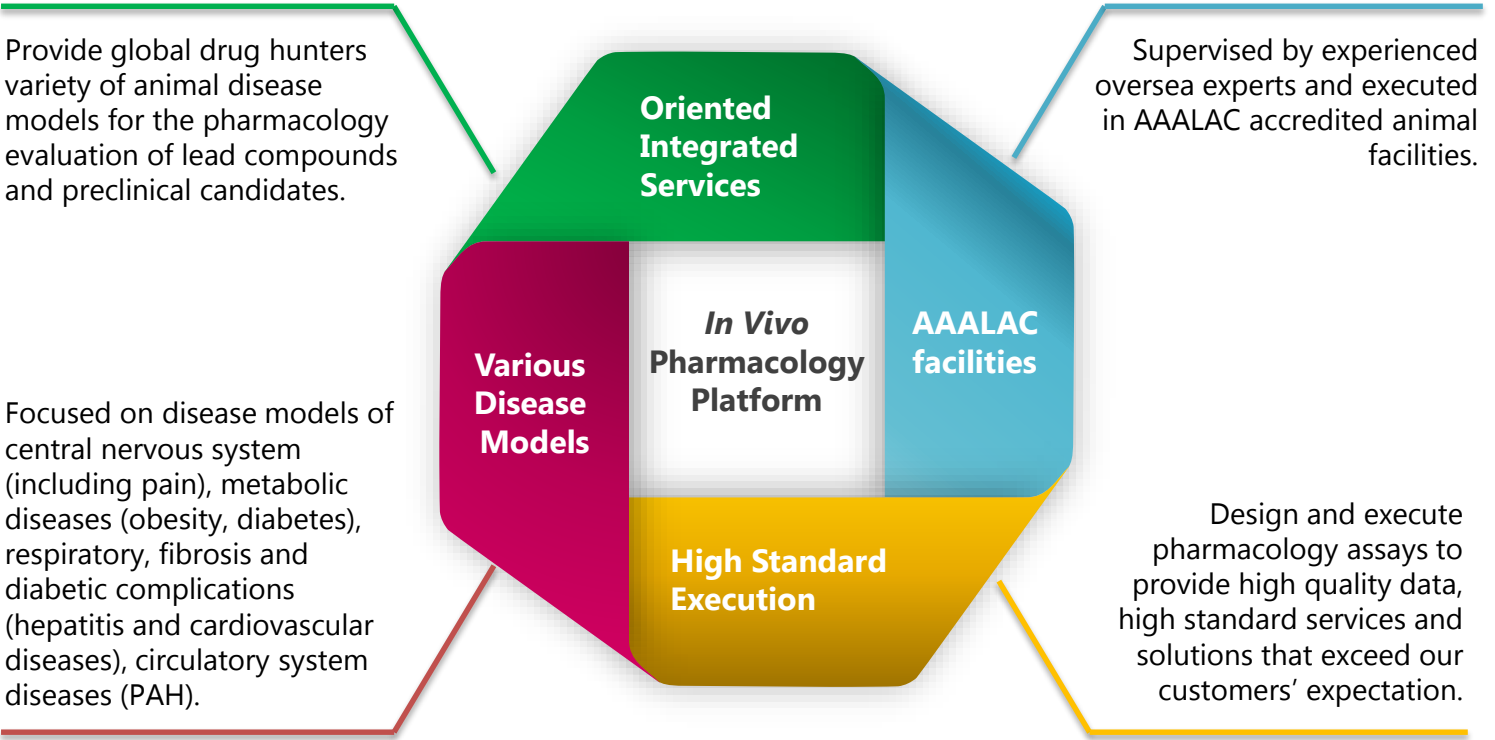


CNS Pharmacology Capabilities

AD/PD/Stroke	Psychiatry	Chronic Pain	Target Engagement
<ul style="list-style-type: none">Disease models<ul style="list-style-type: none">6-OHDA PD modelL-Dopa induced Dyskinesiaischemia model (MCAO)Measurements<ul style="list-style-type: none">Novel object recognitionRota rodAIM scoreMorris Water MazeTelemetry EEG/EMGHippocampal gamma and theta oscillations	<ul style="list-style-type: none">Disease models<ul style="list-style-type: none">Acute PCP/amphetamineSubPCP/NeoPCP modelLearned helplessnessMeasurements<ul style="list-style-type: none">CARLocomotor activityPrepulse inhibitionAttentional set shiftingVogelForced swimming	<ul style="list-style-type: none">Disease models<ul style="list-style-type: none">OA pain (MIA)Fibromyalgia syndrome(ICS)Neuropathic (Chung, CCI)Inflammation painUVB (UV burn)Postsurgical pain (Brennan)Measurements<ul style="list-style-type: none">Weight bearingVon Frey hairCold allodynia (acetone)Heat hyperalgesiaEctopic discharge recording	<ul style="list-style-type: none">GPCR occupancy<ul style="list-style-type: none">Radioligand detectionLC-MSMS detectionEnzymatic inhibitionMicroPET and PET



In Vivo Pharmacology Service



Microdialysis	Safety Behavior	Electrophysiology	Safety EEG/EMG
<ul style="list-style-type: none">Compound exposure at the site of actionNeuron transmitter release<ul style="list-style-type: none">DopamineSerotoninAcetylcholineGlutamate	<ul style="list-style-type: none">IrwinRotarod testLocomotor activityGrip Strength	<ul style="list-style-type: none">CNS:<ul style="list-style-type: none">Telemetry EEG of sleep architecture and epilepsy (rodent and NHP)Unitary recording from sensory neurons (rodent)EMG, NCV and H-Reflex (rodent and NHP)Auditory-induced sensory gating (rodent)Hippocampal oscillation (rodent)DRG cell and brain slice patch clampCardiovascular:<ul style="list-style-type: none">Telemetry blood pressure monitoringErection defection et al.	<ul style="list-style-type: none">Early cardiac safety<ul style="list-style-type: none">Telemetry QT interval prolongation (Dog, NHP)Langendorff model (GP)Heart Purkinje cell (Rabbit)Telemetry EEG, BP and CBTSeizure liability