

## WUXI PHARMA TECH

<b>Company name</b>		WuXi PharmaTech
<b>Service type</b>		CRO in discovery and preclinical research (also a CMO)
<b>Service</b>	<b>Service scope</b>	<ol style="list-style-type: none"> <li>1. Custom synthesis: library design and synthesis in both solution and solid phase, developed over 90 spiro drug templates;</li> <li>2. Medicinal chemistry: lead generation and optimization, high throughput screening, activity testing (both enzyme assay and whole cell assay), assay method development;</li> <li>3. Analytical services: bio-analytical services, core analytical services, analytical method development;</li> <li>4. <i>In vitro</i> ADMET profiling: <i>in vitro</i> metabolism, metabolic stability and biotransformation, CYP450 isozyme inhibition, CYP450 isozyme mapping (phenotyping), solubility and stability, protein binding, PAMPA membrane permeability, Caco-2 and MDCK cell permeability, cell proliferation and cytotoxicity;</li> <li>5. Biomarkers: ELISA and electrochemiluminescence assays, drug immunogenicity assay, cell-based, receptor binding and enzyme assays, quantification of protein/peptide/DNA drugs;</li> <li>6. Pharmacology: bioavailability, biliary versus urinary excretion, tissue distribution, dose ranging and proportionality, bioequivalence, formulation testing;</li> <li>7. Process development: optimization of the chemical synthesis process</li> <li>8. cGMP: manufacturing facility in Jinshan Chemical Industry Development Zone of Shanghai; the plant is in compliance with SFDA standards.</li> <li>9. Pharmaceutical development service: offers a full range of services from pre-formulation studies, analytical development, stability evaluation and formulation development, to CT material manufacturing and CMC services;</li> <li>10. Medical device: proof of concept and process/product development, testing services, testing &amp; cGMP manufacturing for combination/tissue products;</li> <li>11. Biopharmaceutical manufacturing: have five individually monitored GMP cell banking suites to manufacture cell banks grown to client requirements.</li> </ol>
	<b>Capability Level</b>	Level 3
<b>Service features and strengths</b>		First and currently the largest CRO in China; have a broad scope of contract research services in such areas as drug discovery, preclinical research, bio-analytical service, process

		R&D, formulation and contract manufacturing including APIs; recently acquired AppTec, a US-based CRO specializing in services of biological testing and manufacturing and development of medical devices.
<b>Facility/capacity</b>		Have research facilities in Shanghai, Suzhou (which holds its DMPK laboratories with a 3,300 sq ft rodent facility and a 14,000 sq ft large animal facility for preclinical service) and Tianjin as well as a large scale production facility in the suburb of Shanghai (Jinshan District).
<b>Products to offer</b>		N/A
<b>Experience and Customers served</b>		More than 70 worldwide, both major pharma companies and small biotech ones.
<b>Annual service revenue</b>		\$135 M (2007) \$262 M (2008)
<b>Background of executive/founder</b>		Dr. Ge Li, Chairman and Chief Executive Officer. Ph.D., Columbia University; worked with Pharmacopeia Research, Inc. for seven years; was one of Pharmacopeia's scientific founders.
<b>Year established</b>		2000
<b>Number of scientific employees</b>		3700
<b>Rating rank</b>		1 <sup>st</sup> tier player
<b>Recent development</b>		<ol style="list-style-type: none"> <li>1. On December 18, 2008, its Shanghai rodent facility awarded AAALAC accreditation.</li> <li>2. On November 7, 2008, signed a new three-year, <i>in vitro</i> ADME collaboration agreement with Pfizer.</li> </ol>
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