

# JPT Peptide Technologies

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<b>Internet Website</b>	www.jpt.com
<b>Number of Employees</b>	45
<b>Founded (year)</b>	2004
<b>Type of Laboratory</b>	Chemical, Biochemical, Biological
<b>Areas of Activity</b>	Peptide-based services, catalog products and R&D collaborations for seromarker discovery; immune monitoring; diagnostics; vaccine target & peptide lead identification & optimization, proteomics and enzyme profiling
<b>Biological Patents</b>	PepStar™ (Peptide microarray platform); PepSpot™ (High throughput peptide synthesis technique); PepMix™ (Peptide pools for immune therapy and diagnostics); SpikeTides™ (Peptide standards for proteomics)
<b>External Collaborations</b>	Cancer biomarkers (BioNTech AG & TRON GmbH; Germany); HIV (NIH, Duke University, WRAI, Harvard Medical School; USA); M. Tuberculosis (Karolinska Institutes, Sweden); Chronic Fatigue Syndrom (Charité Clinics, Germany)
<b>Request for Further Collaborations</b>	Seromarker and peptide lead discovery & validation; vaccine target identification; development of immune diagnostics, biomarker quantification

## ► Company Profile

JPT Peptide Technologies is a DIN ISO 9001:2008 certified and GCLP compliant innovative service provider and research & development partner in peptide related projects. We focus on seromarker discovery & validation, development of immune monitoring tools and diagnostics, vaccine target and peptide lead identification & optimization and on proteomics and enzyme profiling.

Together with our US-subsiary Theracode JPT Inc., located in Boston, MA, JPT is serving a worldwide customer base in the pharmaceutical and biotechnology industry as well as researchers at universities, governmental and non-profit organizations.

## ► Innovations for Immune Therapy Development, Biomarker Discovery and Proteomics

JPT's proprietary technologies and the corresponding product portfolio have helped to advance research efforts in the development of new immunotherapies against infectious and autoimmune diseases as well as allergies and cancer. JPT's highly sophisticated peptide arrays, peptide pools and peptide sets allow examination of entire proteomes of pathogenic organisms.

For the first time, the data obtained enable biomedical researchers to analyze and correlate systematically both, the cellular and humoral immune responses of diverse patient populations. This provides a basis for stratifying patient groups and developing novel immune diagnostics and therapeutic approaches.

In a similar way, JPT's peptide-based platforms permit the discovery and profiling of B- and T-cell epitopes and the absolute quantitation of protein expression levels targeting entire proteomes.

## ► JPT's Core Technologies

PepSpot™ – ultra high throughput peptide synthesis and screening platform for peptides  
 PepStar™ – patented peptide microarray technology for profiling antibody signatures in patient samples, biomarker discovery, studying protein/protein interactions and auto-antibody action, immunomonitoring and for profiling enzyme targets

PepMix™ – defined peptide pools spanning entire antigens for immune response profiling of vaccinated or transplant patients  
 PepTrack™ – most efficient and flexible peptide library technology on the market designed for specific needs of T-cell assays  
 SpikeTides™ – peptide standards for targeted proteomics

## ► Services, Catalog Products, R&D Collaborations

### Immuno-Tools & Services:

- Seromarker discovery & validation
- Antibody signature profiling
- PepMix™ catalog & custom peptide pools
- Epitope mapping service
- Proteome spanning peptide libraries for T-cell epitope discovery

### Peptides & Arrays:

- Peptide lead identification & optimization
- Customized and catalog peptide microarrays
- Micro & Macro-Scale peptide libraries
- Custom & catalog specialty peptides

### Proteomics & Enzyme Profiling:

- Comprehensive enzyme profiling (substrate identification & optimization)
- Enzyme Substrate Kits (Kinases, Proteases, Phosphatases, Methyltransferases and others)
- SpikeTides™ (low cost, small scale, isotope labeled, tagged peptides for protein quantification)

## ► Strategic Outlook

Current biomedical research focuses on finding effective and validated approaches to individually quantify the humoral and cellular immune response of the human organism. New technologies enabling antigen specific immune response monitoring as well as absolute quantification of protein expression levels at proteome-wide levels will lead to the generation of novel personalized diagnostic and therapeutic procedures.

JPT currently is the only company providing access to such proteome covering approaches, contributing to the most essential development phases of novel immune medicines and diagnostics.



Innovative Peptide Solutions

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