

Peptide Tools for Proteomics

- > Low Cost Proteotypic Peptides for SRM/MRM Assays
- > Peptide Microarrays Covering Entire Proteomes
- > Antibody Profiling & Protein-Protein Interaction Studies
- > Peptide Libraries & Arrays for Enzyme Profiling

Progress in MS-based assays, new approaches to study protein-protein interactions and antibody technologies for the first time offer a systematic access to a global and quantitative coverage of different proteomes. JPT's proprietary peptide technologies provide tools and services which make this endeavour affordable and efficient.



Innovative Peptide Solutions

JPT provides peptide based tools and services for a variety of proteomic applications. Our core technologies produce tens-of-thousands of peptides for proteome spanning SRM / MRM assays and high content peptide microarrays for proteome wide seromarker discovery.

In addition, our technologies allow profiling of antibody actions and receptor-ligand as well as enzyme-substrate interactions.

Products & Technologies

Micro-Scale Peptide Sets

Custom synthesis of tens-of-thousands of individual peptides or peptide scans through proteins or entire proteomes.

SpikeTides™

Low cost synthesis of unpurified heavy (^{15}N , ^{13}C) labeled and light peptides for relative and absolute quantification of protein expression levels.

Peptide Microarrays

Pre-defined (RepliTope™) and customized (PepStar™) peptide microarrays covering proteins or entire proteomes of pathogenic organisms for biomarker discovery. Select your proteome spanning microarray from pathogens like HIV, TBC, Dengue Virus, Malaria, CMV and more...

Enzyme Profiling Tools

Identification of new substrates for Protease-, Kinase-, Phosphatase- and Methyltransferases; selectivity testing, substrate optimization, detection of contaminations in enzyme samples and more...



 **Your Needs**

- Reliable source of inexpensive, unpurified - heavy labeled & light - small scale peptides for SRM /MRM assays
- Systematic mapping of protein-protein interactions (antibody epitope mapping, receptor-ligand and enzyme-substrate interactions)
- Detection of seromarkers activity patterns on proteome wide levels
- Enzyme substrate identification

 **Our Know-How**

- World's largest peptide library producer for modified and unmodified peptides
- Proprietary synthesis technologies provide > 2 millions peptides annually
- Posttranslational modifications (phosphorylation, glycosylation, alkylation, etc.) available
- Market leader for peptide microarrays
- Validated assays for antibody-antigen, receptor-ligand and enzyme-substrate interactions

 **Our Offer**

- Discuss your goals with our scientists
 - Obtain a project proposal and price information tailor-made to your needs
 - Receive even complex peptide libraries, pools or arrays within days (i.e. 10 000 peptides within 2 weeks)
 - Accessing the worldwide most efficient peptide technologies speeds up your science
 - JPT is interested in collaborative partnerships (i.e. establishment of proteotypic peptide kits)
 - All production under DIN ISO 9001:2008 and GCLP standards
- 

References

"High-throughput Generation of Selected Reaction-Monitoring Assays for Proteins and Proteomes"

Picotti et al., Nature Methods (2009)

"Full Dynamic Range Proteome Analysis of S. Cerevisiae by Targeted Proteomics"

Picotti et al., Cell (2009)

"T-cell Epitope Mapping in Mycobacterium Tuberculosis Using PepMixes Created by Micro-Scale SPOT-Synthesis"

D.M.Lewinsohn et al., Epitope Mapping Protocols, Methods in Molecular Biology

(**U.Reineke & M. Schutkowski, Eds.**) Humana Press (2009)

"Pattern Recognition in Pulmonary Tuberculosis Defined by High Content Peptide Microarray Chip Analysis Representing 61 Proteins from M. Tuberculosis"

Gaseitsiwe et al., PLoS ONE (2008)

"Evaluation of Antigen Specific T-Cell Responses with a Miniaturized and Automated Method"

Pira et al., Clin. Vaccine Immunol. (2008)

"High-Content Peptide Microarrays for Deciphering Kinase Specificity and Biology"

Schutkowski et al., Angew. Chem. Int. Ed. (2004)

Testimonials

"We at the ETH successfully apply JPT's unpurified isotope- and non-labeled peptide libraries for proteome-wide SRM assays allowing us to identify and quantify proteins spanning a broad range of abundances, including proteins not previously detectable. With the ability to produce large numbers of affordable small scale proteotypic peptides we envision for the first time the development of assays for the quantitative analysis for any protein of interest and covering of whole proteomes."

Paola Picotti, PhD, Institute of Molecular Systems Biology, ETH Zürich, Switzerland





Discuss your project with us

Please fax back to +49-30-6392-5501

My field of application is

- SRM/MRM assays
- protein quantification
- stable isotope-labeled (¹³C, ¹⁵N) peptides
- peptide biomarker discovery
- epitope mapping
- protein-protein interactions
- substrate identification for
 - kinases
 - proteases
 - phosphatases
- profiling of humoral immune responses
- profiling of cellular immune responses

other: _____

I wish to receive more information about JPT's

- PepTrack™** peptide libraries for T-cell assays
- PepMix™** peptide pools for immune monitoring
- Peptide Microarrays** for immune response monitoring, protein-protein interaction studies and enzyme profiling
- Enzyme Profiling Services**
- Custom Peptide Synthesis Services**
- SpikeTides™** low cost peptides for SRM assays

other: _____

- I want to receive JPT's newsletter**

May we contact you by phone or mail?

Name

Inst./Company

Town/Country

Phone Number

Official Email Address



Find your JPT product at one glance

Immuno Tools

PepStar™ Microarrays
PepSpots™ Array Service
PepMix™
PepTrack™ Peptide Libraries
RepliTope™

Peptides & Arrays

PepStar™ Microarrays
PepSpots™ Array Service
PepTrack™ Peptide Libraries
Custom Peptides
Macroscale Peptide Sets
Microscale Peptide Sets
BioTides™
Peptide Conjugates

Proteomics & Enzyme Profiling Tools

SpikeTides™
Kinase Profiling Tools
Phosphatase Profiling Tools
Protease Profiling Tools
Microscale Peptide Sets
PepStar™ Microarrays



Innovative Peptide Solutions

JPT Peptide Technologies

www.jpt.com | peptide@jpt.com

European Head Office

T +49-30-6392-7878

F +49-30-6392-7888

USA/Canada

T 1-888-578-2660

F 1-888-578-2666