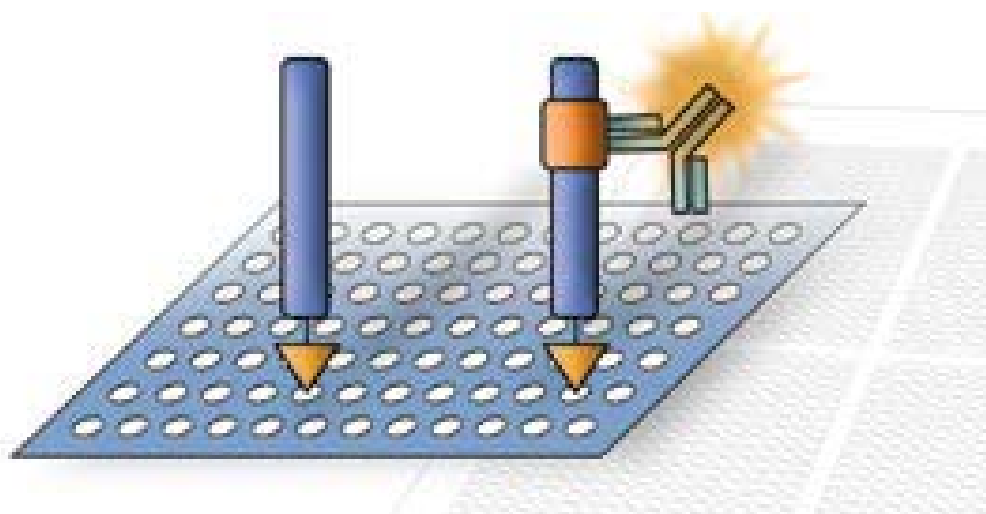


# PepStar™ – Peptide Microarrays Application Training



- ➔ Seromarker discovery
- ➔ Antibody epitope mapping
- ➔ Enzyme profiling
- ➔ Protein-protein interactions

# Agenda

Dear Scientist,

Please find below an exemplary agenda for a PepStar™ – Peptide Microarrays Application Training. Upon request, we will develop an individual agenda based on your specific interests and provide focused training according to your application!

Your JPT team

## PepStar™ – Peptide Microarrays Application Training

1<sup>st</sup> day:

Time	Topic
	<b>Arrival in Berlin, Germany</b>
<b>2:00 pm - 3:30 pm</b>	<b>Welcome</b> Introduction to JPT's team Presentation of JPT
<b>3:30 pm - 4:30 pm</b>	<b>Facility Tour</b> Company structure Introduction to high throughput peptide synthesis Peptide microarray principles
<b>4:30 pm - 5:30 pm</b>	<b>Discussion and Planning</b> <ul style="list-style-type: none"> <li>• Preparation of first experiments</li> <li>• How to perform a simple binding experiment (with purified antibody)</li> <li>• Discussion of reasonable control incubations</li> </ul>

## PepStar™ – Peptide Microarrays Application Training

2<sup>nd</sup> day:

Time	Topic
9:30 am - 11:30 am	<b>First Incubation Experiments with Purified Antibodies</b> <ul style="list-style-type: none"> <li>We will show manual and semi-manual incubation</li> </ul>
11:30 am - 1:00 pm	<b>Peptide Microarrays</b> <ul style="list-style-type: none"> <li>Introduction to peptide array team members</li> <li>Detailed presentation and discussion of workflow</li> <li>Microarray basics</li> </ul>
1:00 pm - 2:00 pm	<b>Lunch</b>
2:00 pm - 4:30 pm	<b>Workup Procedures</b> Washing steps (manual / automatic) Drying steps (manual / automatic) Scanning procedure
2:00 pm - 4:30 pm	<b>Data Evaluation</b> <ul style="list-style-type: none"> <li>Take your first steps in GenepixPro Software</li> <li>Establish an evaluation procedure</li> <li>How to use .gal-files for spot finding</li> <li>Learn spot finding in Genepix (block / feature)</li> <li>How to take advantage of automated background correction</li> <li>How to set and use feature flags</li> </ul>
4:30 pm - 5:30 pm	<b>Discussion of Next Steps</b> <ul style="list-style-type: none"> <li>Preparation of second experiment</li> <li>How to perform a binding experiment with serum</li> <li>Discussion of reasonable control incubations</li> </ul>

## PepStar™ – Peptide Microarrays Application Training

3<sup>rd</sup> day:

Time	Topic
9:30 am - 11:30 am	<b>Start of Serological Profiling</b> <ul style="list-style-type: none"> <li>• Binding experiment on peptide arrays</li> <li>• Find the best dilution</li> </ul>
11:30 am - 4:30 pm	<b>Evaluation of First Experiments and First Steps in Data Interpretation</b> <ul style="list-style-type: none"> <li>• What is the general data structure of results (raw data)</li> <li>• Which parameters to choose for evaluating experimental quality</li> <li>• Learn more about statistical evaluations and visualization of results</li> <li>• How to evaluate your positive and negative controls</li> <li>• Get to know normalizing options for microarray data</li> <li>• Potential statistics and data interpretation</li> </ul>
1:30 pm - 2:30 pm	<b>Lunch</b>
11:30 am - 4:30 pm	<b>Workup Procedures</b> <ul style="list-style-type: none"> <li>• Washing steps</li> <li>• Drying steps</li> <li>• Scanning procedure</li> </ul>
4:30 pm - 5:30 pm	<b>Discussion of Optimization Experiments</b> <ul style="list-style-type: none"> <li>• Workflows</li> <li>• Discussion of planned experiments</li> <li>• Questions and next steps</li> </ul>

# Agenda

## PepStar™ – Peptide Microarrays Application Training

4<sup>th</sup> day:

Time	Topic
9:30 am -11:30 am	<b>Data Evaluation of Seroprofiling</b> <ul style="list-style-type: none"><li>• Scanning and evaluation of performed experiment</li><li>• Introduction to array evaluation and data processing</li><li>• Learn to process and analyse images</li><li>• How to use R for data processing</li><li>• Statistical evaluation of data</li><li>• Troubleshooting and optimization tricks from our experts</li></ul>
11:30 am - 12:30 pm	<b>Wrap-Up &amp; Discussion</b>