

Cancer Neoepitope Screening

Translate **cancer point mutations** into **peptide microarrays**



From sequencing data to immune profiles in 4 weeks



Identify immunogenic neoepitopes for immunotherapy



Develop personalized cancer vaccines



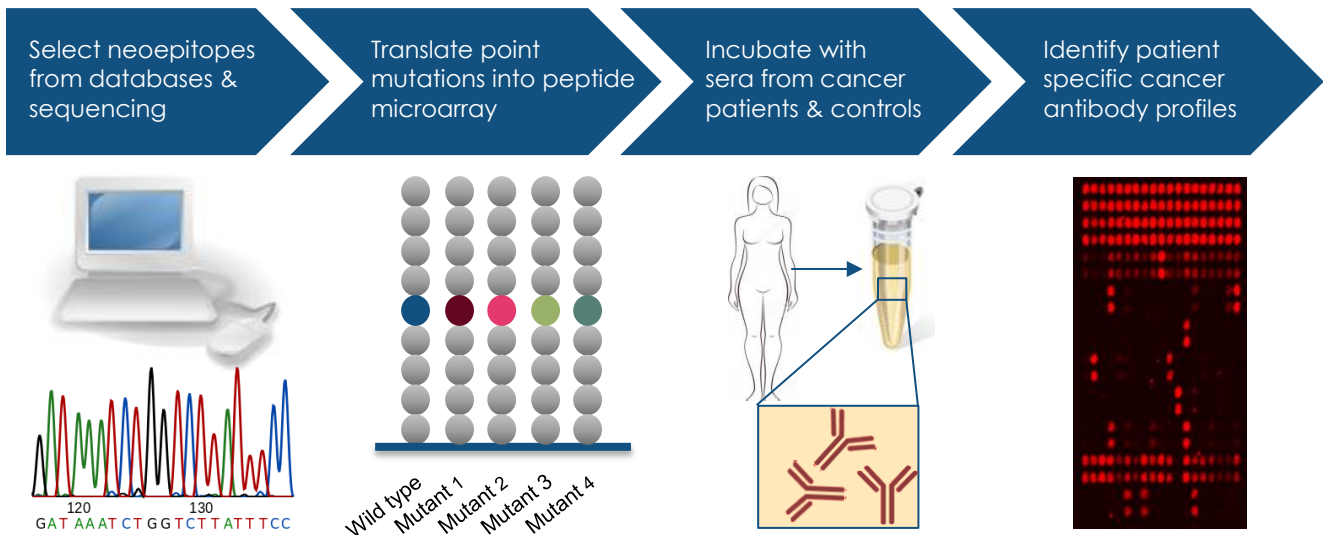
Generate patient-specific cancer peptide microarrays



Stratify patients in clinical trials

PEPperCHIP® Cancer Neopeptide Microarrays

PEPperPRINT GmbH provides custom cancer neopeptide microarrays with up to 11,000 peptides for the personalized analysis of anti-tumor antibody responses within 4 weeks in a cost-effective manner.



PEPperCHIP® Peptide Microarray Specifications

- **Microarray Content** – cancer neopeptides, sequencing data, custom peptide lists etc.
- **Peptide Length** – 15 amino acids by default (adjustable)
- **Peptide Numbers** – up to 5,500 different peptides printed in duplicate
- **Control Peptides** – HA and polio epitopes by default, optional custom controls
- **Timeline** – 4 weeks for microarray delivery, 2 weeks for data analysis & reporting
- **Microarray Example** – 2,750 wild type / neopeptide peptide pairs printed in duplicate

Applications

- **Validate** therapeutic antibodies against tumor associated antigens
- **Target discovery:** Identify immunogenic epitopes for immunotherapy
- **Develop** personalized cancer vaccines
- **Monitor** patient-specific anti-tumor antibody responses
- **Discover** prognostic cancer neopeptides

Benefits

- **Speed** – get any microarray within 4 weeks
- **Flexibility** – personalized peptide microarrays at any time
- **Quality** – high reproducibility, highest signal-to-noise ratios
- **Economics** – most cost-effective and custom solutions