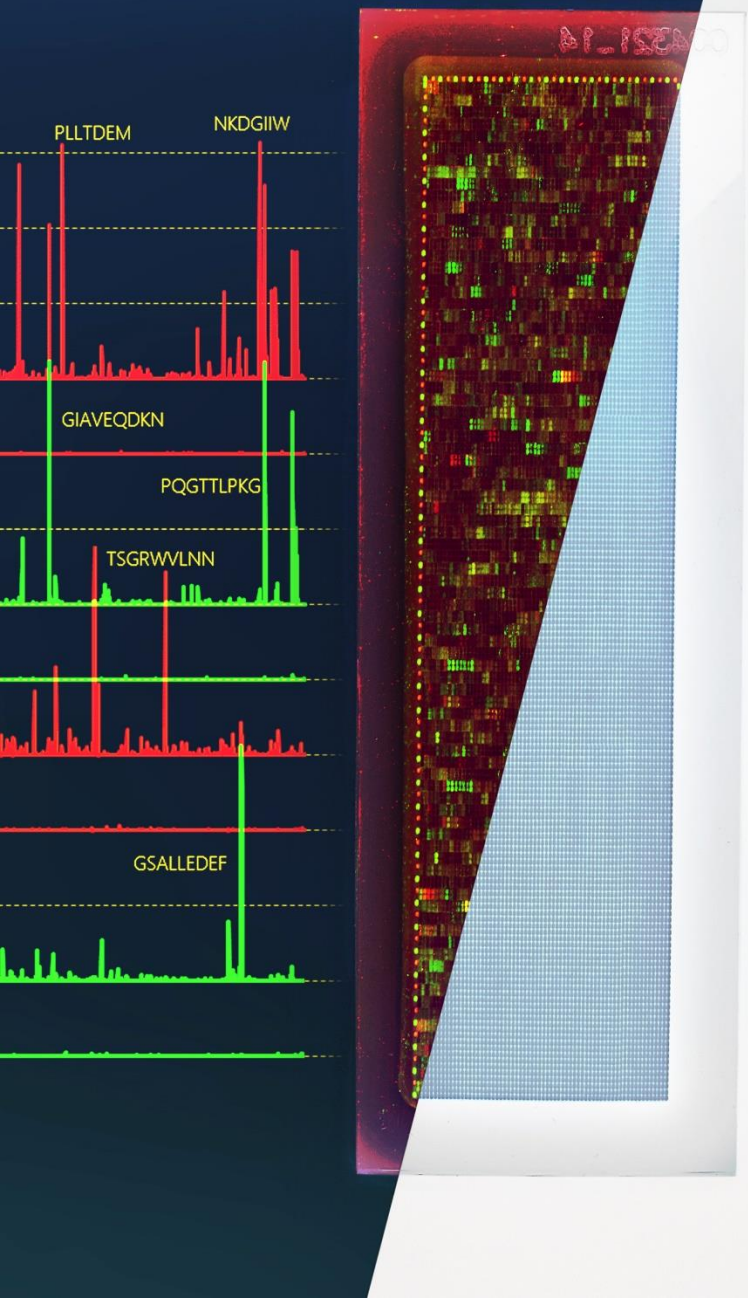
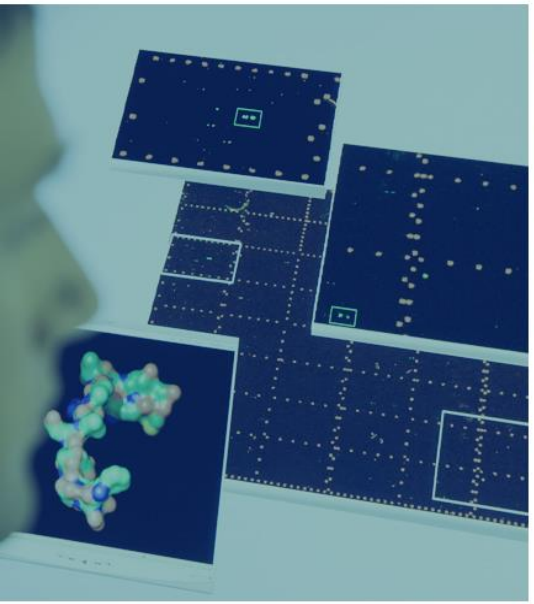
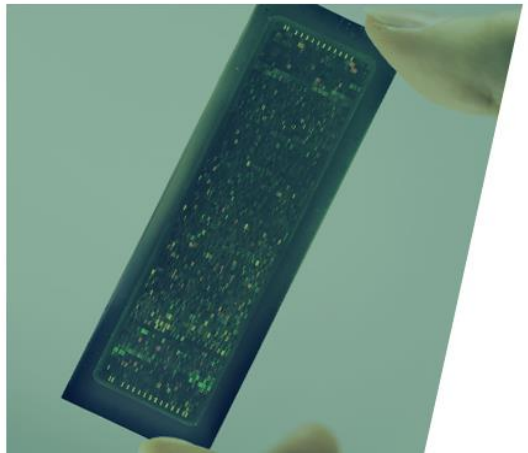


High-Density Laser-Printed Peptide Microarrays

PEPperPRINT
A NEW DIVERSITY



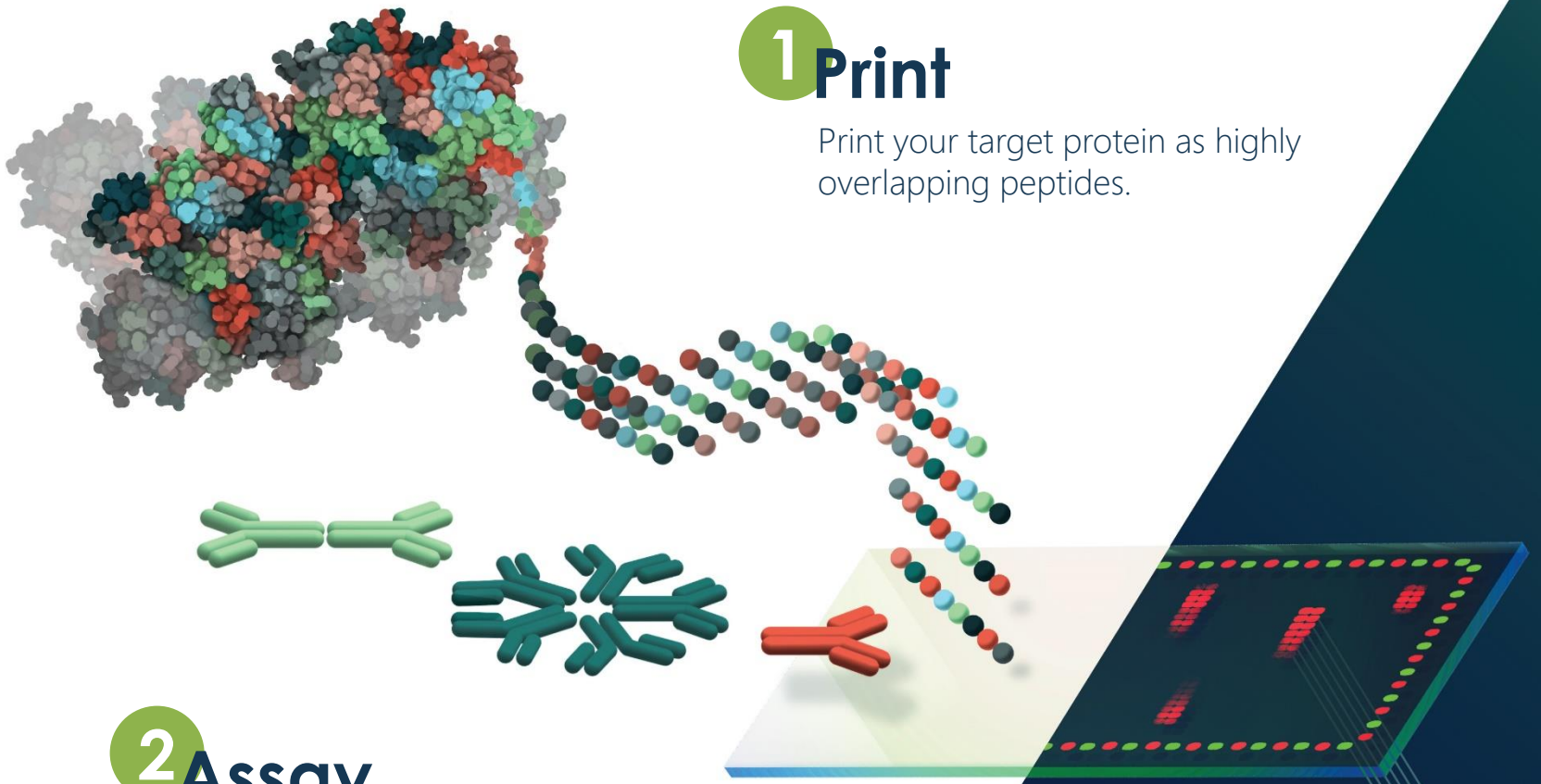


Who we are

- Founded and based in Heidelberg
- Operative since 2011, profitable since 2014
- Privately held, independent company
- Experienced team of executives
- Proven track record (e.g. Science, Nature)
- ISO 9001 certified QMS
- ~25 employees

University of Cambridge
Boehringer Ingelheim
Heidelberg University Hospital
Charité – Universitätsmedizin Berlin
Yale University
INOVA Diagnostics, Inc.
Merck
gsk do more feel better live longer
janssen Pharmaceutical Companies of Johnson & Johnson
The Michael J. Fox Foundation for Parkinson's Research

Our Key Competence



1 Print

Print your target protein as highly overlapping peptides.

2 Assay

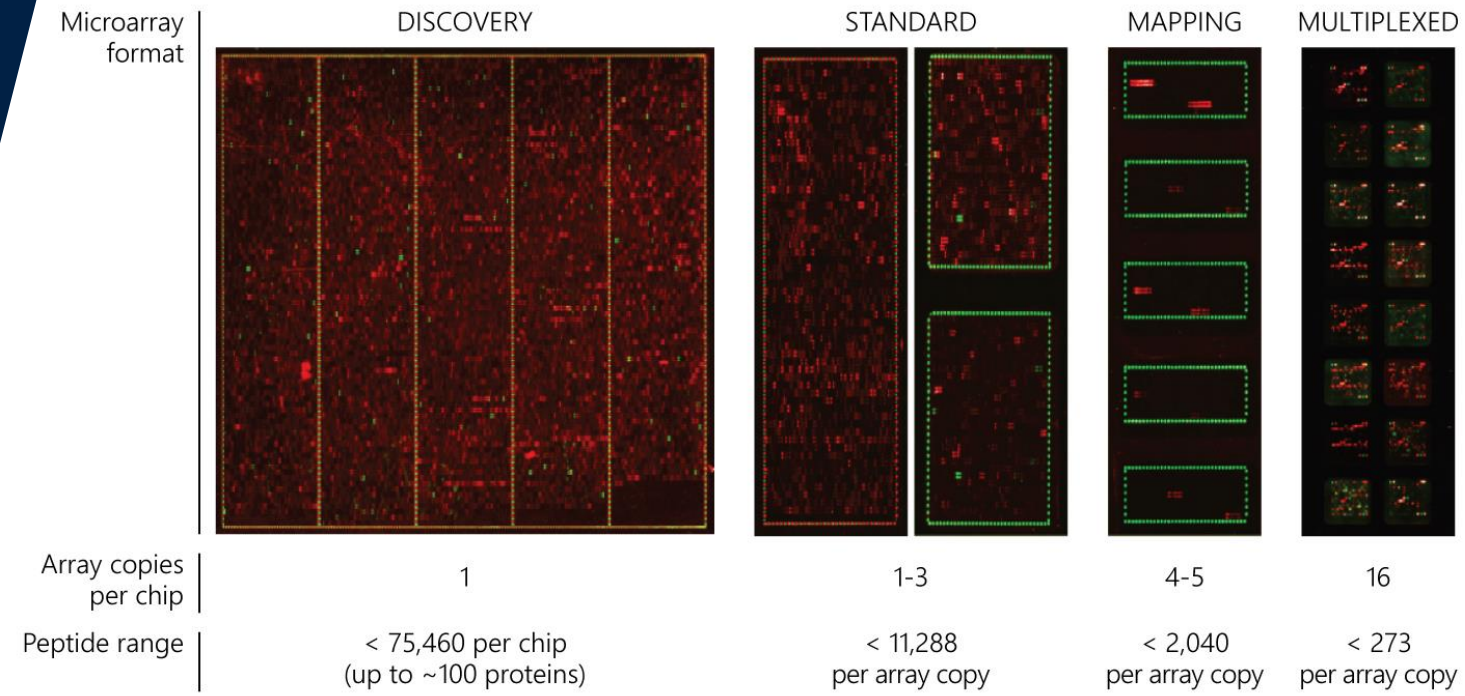
Screen your custom peptide library with antibody or sera.

3 Map

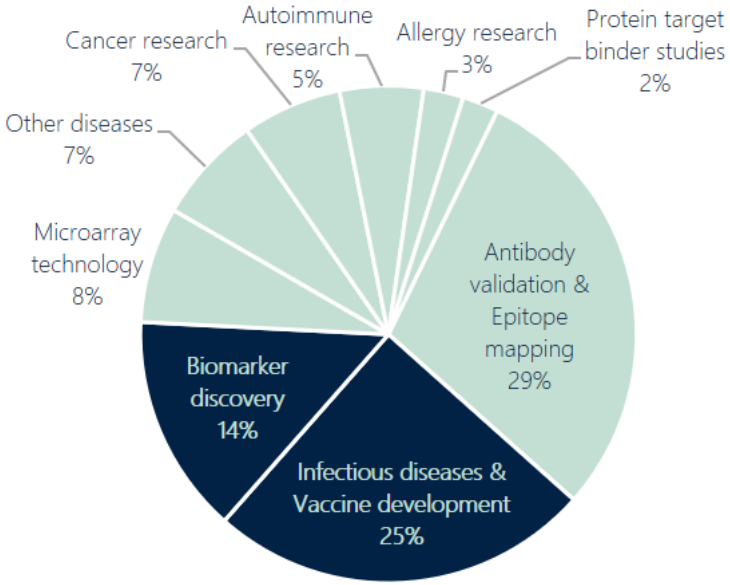
Identify antibody binding sites with amino acid resolution.

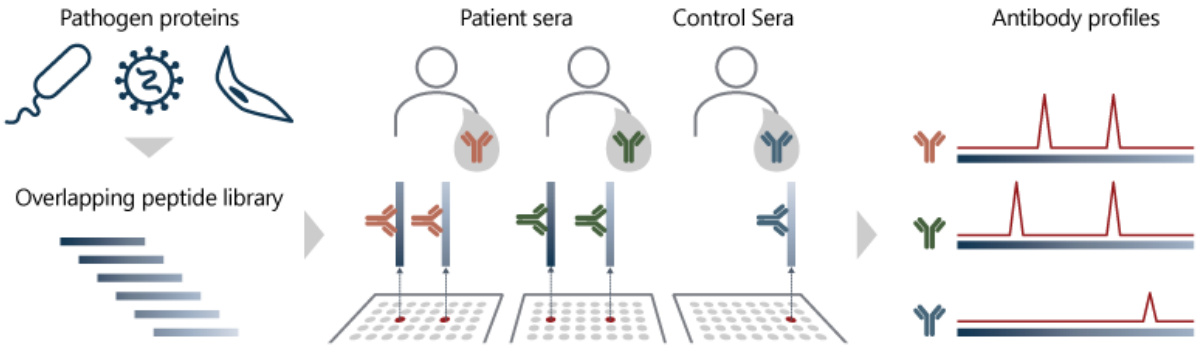
Our Platform Technology

- Very low material consumption
- High spot density (1,000 peptides/cm^2)
- Digital printing flexibility: multiple formats with high scalability
- Fast production times
- High peptide quality with routine double coatings



162
Publications and counting...





PEPperCHIP® Peptide Microarrays

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npj | Vaccines

www.nature.com/npjvaccines

ARTICLE OPEN

Immunization with full-length *Plasmodium falciparum* merozoite surface protein 1 is safe and elicits functional cytophilic antibodies in a randomized first-in-human trial

Antje Blank[1,9], Kristin Fürle[2,9], Anja Jäschke[2,9], Gerd Mikus[1], Monika Lehmann[3], Johannes Hüsing[3], Kirsten Heiss[4], Thomas Giese[5], Darrick Carter[6], Ernst Böhnlein[7], Michael Lanzer[2,10*], Walter E. Haefeli[1,10*] and Hermann Bujard[7,8,10]

Heidelberg Hospital & Sumaya Biotech, Malaria Vaccine Phase 1 Trial

RESEARCH ARTICLE

Biotechnology Journal
www.biotechnology-journal.com

Epitopes of Naturally Acquired and Vaccine-Induced Anti-Ebola Virus Glycoprotein Antibodies in Single Amino Acid Resolution

Jasmin Heidepriem, Verena Krähling, Christine Dahlke, Timo Wolf, Florian Klein, Marylyn M. Addo, Stephan Becker,* and Felix F. Loeffler**

Bernhard Nocht Institute for Tropical Medicine, EBOV Antibody Signatures

npj | Vaccines

www.nature.com/npjvaccines

ARTICLE OPEN

Check for updates

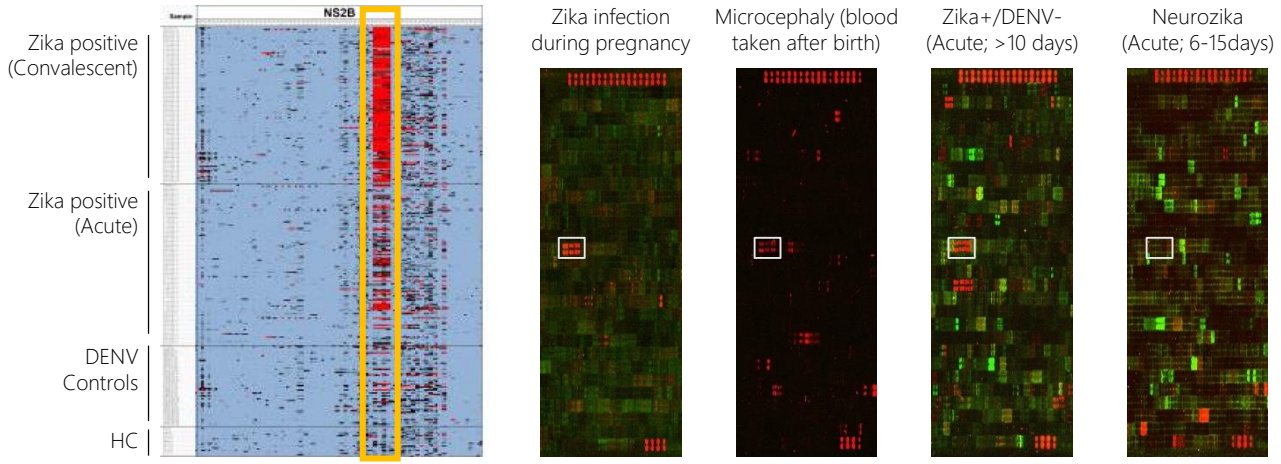
Immunization of mice with chimeric antigens displaying selected epitopes confers protection against intestinal colonization and renal damage caused by Shiga toxin-producing *Escherichia coli*

David A. Montero[1,2], Felipe Del Canto[1], Juan C. Salazar[1], Sandra Céspedes[1], Leandro Cádiz[1], Mauricio Arenas-Salinas[3], José Reyes[4], Ángel Oñate[4] and Roberto M. Vidal[1,5]

Universidad de Chile, Epitope Screening for Antigen Design

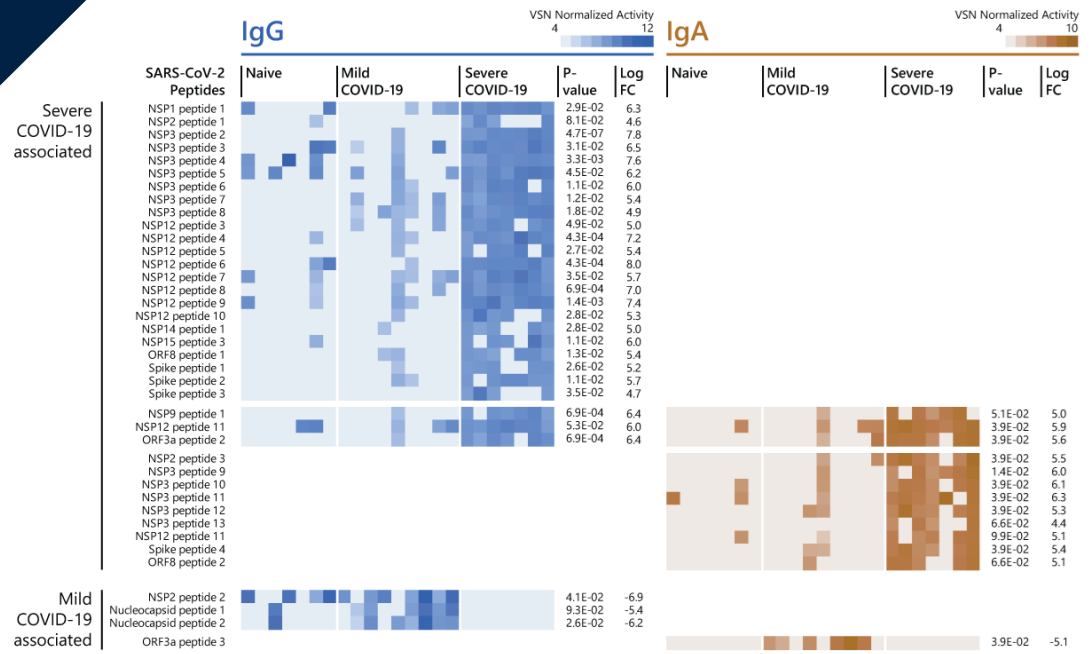
Zika virus epitope biomarkers

- NS2b peptides as Zika biomarkers (patent applied)
- Common core epitope in all Zika virus patients
- No cross-reactions with other flavivirus infections
- Wild type + optimized linear & cyclic peptides
- Includes false-positive controls for other flaviviruses



COVID-19 Response

- Rapid production of a SARS-CoV-2 Proteome Microarray
- Case study with earliest COVID-19 patient sera in Germany with the Institute of Virology at the Charité in Berlin
- Analysis of IgG and IgA responses over time and in mild vs. severe disease cases
- Additionally launched: Pan-Corona Spike Protein Microarray for antibody cross-reactivity analysis



Partner with us

- We can generate any high-density peptide microarray infectious disease or vaccine research in the shortest amount of time
- We can provide the technology and expertise, and we would be happy to co-develop and share IPs with potential partners who can provide access to samples, sequences, or other similar resources

Ideal partners

Samples
(e.g. patient/animal sera, antibodies)

Targets
(e.g. antigen lists, proteins of interest)

Screening & Analysis

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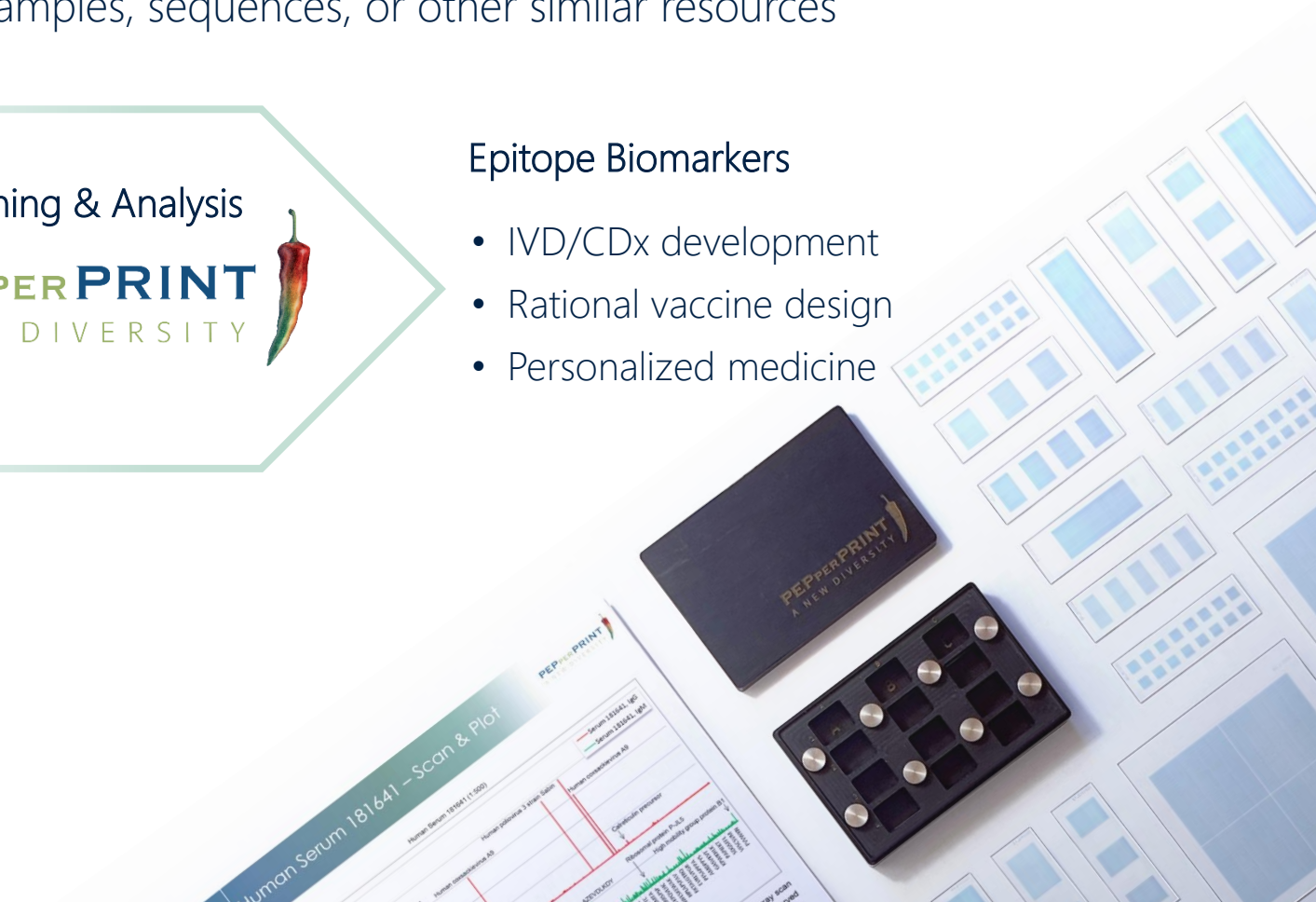
Epitope Biomarkers

- IVD/CDx development
- Rational vaccine design
- Personalized medicine



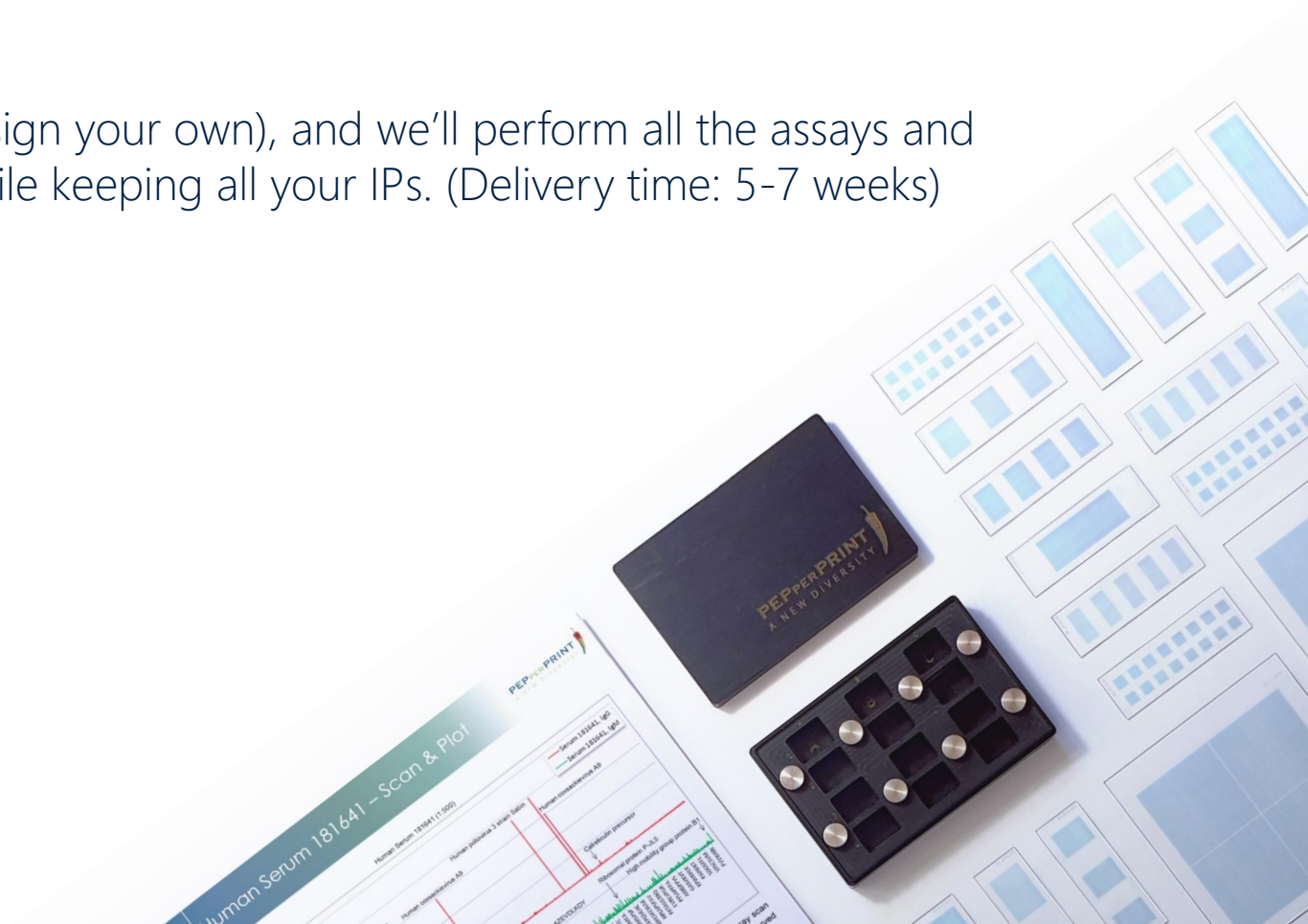
…or simply let us support your research

- PEPperCHIP® Peptide Microarrays

  Select from our pre-designed peptide libraries, or tell us your sequences and we'll print a chip for you. Analyze your samples at your own facility. (Delivery time: 4-5 weeks)

- PEPperMAP® Services

  Send us your samples, select a chip (or design your own), and we'll perform all the assays and analyses. Get a tailored scientific report while keeping all your IPs. (Delivery time: 5-7 weeks)



Contact

Above: Our 2019 Christmas array, illustrated by printing HA and Flag peptides followed by staining with fluorescently labelled antibodies

Dr. Eric Dyrcz

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