

PEPPERPRIN A NEW DIVERSI

Discover the PEPperCHIP® SeroRA Library: the biggest peptide library for rheumatoid arthritis research!

Only PEPperPRINT's unique peptide microarray platform enables you to

- pinpoint and profile every possible rheumatoid arthritis-related autoantibody throughout an entire patient population
- use the first comprehensive library with homocitrulline
- close the gap for anti-CCP, anti-MCV and RF negative rheumatoid arthritis
- reliably receive your custom peptide microarrays within 3-5 weeks
- adjust your microarray from chip to chip and obtain rapid readouts
- benefit from the highest signal-to-noise ratios available

Here are some examples of PEPperPRINT's SeroRA Library applications:

- identification of stage-specific biomarkers in rheumatoid arthritis patients for stratification for clinical trials
- discovery of reliable prognostic and diagnostic biomarkers for serum-based IVD and CDx development for rheumatoid arthritis
- differentiation between anti-CCP, anti-MCV and RF negative rheumatoid arthritis

What our customers say:

"Through the help of researchers at PEPperPRINT, we have identified several important lupus and arthritis associated autoantigen epitopes in a complex mouse model of autoimmunity. The comprehensive database behind these epitopes has enabled us to identify that these epitopes are mostly associated with nucleosomal or ribonucleosomal proteins. The PEPperCHIP[®] epitope analysis has now helped us to move on to determine the immuno pathogenic mechanisms in our autoimmune mice."

Hui-Chen Hsu, Ph.D., Associate Professor of Medicine, Division of Clinical Immunology and Rheumatology, University of Alabama at Birmingham

"We used PEPperPRINT's Infectious Disease Epitope Microarrays to analyze the serological response to pathogens in patients with autoimmune disease. I can highly recommend PEPperPRINT - the support I received for both technical queries and data analysis exceeded all my expectations!" Miriam Jane Ball, Ph.D., Clinical Institute of Pathology, Medical University of Vienna, Austria





Our **disruptive PEPperCHIP[®] SeroRA Library** offers a variety of unique features for rheumatoid arthritis reasearch:

PEPperCHIP[®] SeroRA Library – Peptide Content

- >100,000 linear and cyclic constrained peptides with citrulline and homocitrulline variants
- epitope-wide coverage of standard autoantigens like Vimentin, Fillagrin, Enolase or Fibrinogen, new autoantigens (BiP, α-1B-Glycoprotein) and pathogen-derived antigens (EBNA-1)
- multiplexed screening of IgG, IgM and IgA antibody responses against the most comprehensive rheumatoid arthritis peptide library

Standard RA Antigens	Other RA Antigens	Pathogen-Based RA Antigens	•
Vimentin	α-1B-Glycoprotein	EBNA-1	
Filaggrin	Tryptase	Nuclear protein EBNA-2	
Enolase	Aggrecan	DnaJ (E.coli)	222
Fibrinogen	Clusterin	EBV Envelope glycoprotein B	
Actin	78 kDa glucose-regulated protein	lmmunoreactive 23 kDa antigen PG3	
Collagen alpha-1(II) chain	Glucose-6-phosphate	Receptor antigen A	
Histone 2A	Apolipoprotein E	Minor fimbrium tip subunit MfA4	
Ro ribonucleoprotein	BiP	Peptidylarginine deiminase	
Rheumatoid factor RF	Myeloid cell nuclear antigen	19 kDa Lipoprotein Antigen	
Myelin basic protein	Biglycan	Hemolysin transporter protein HpmB	
Standard Peptides	Citrullinate	ed Peptides	Homocitrullinated Peptides

PEPperCHIP® SeroRA Library – Capacities

- IVD and CDx discovery and development from peptide library design to test assay format
- proven track record, projects with 9 of the top 10 pharma companies epitopes
- test development based on virtually any peptide microarray content and disease area
- on request: partner companies for test verification and validation according to ISO 13485

