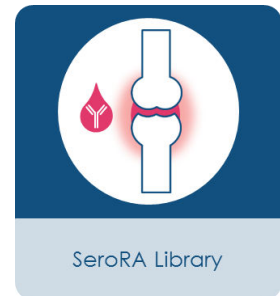


# Discover the PEPperCHIP® SeroRA Library: the biggest peptide library for rheumatoid arthritis research!

## 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**

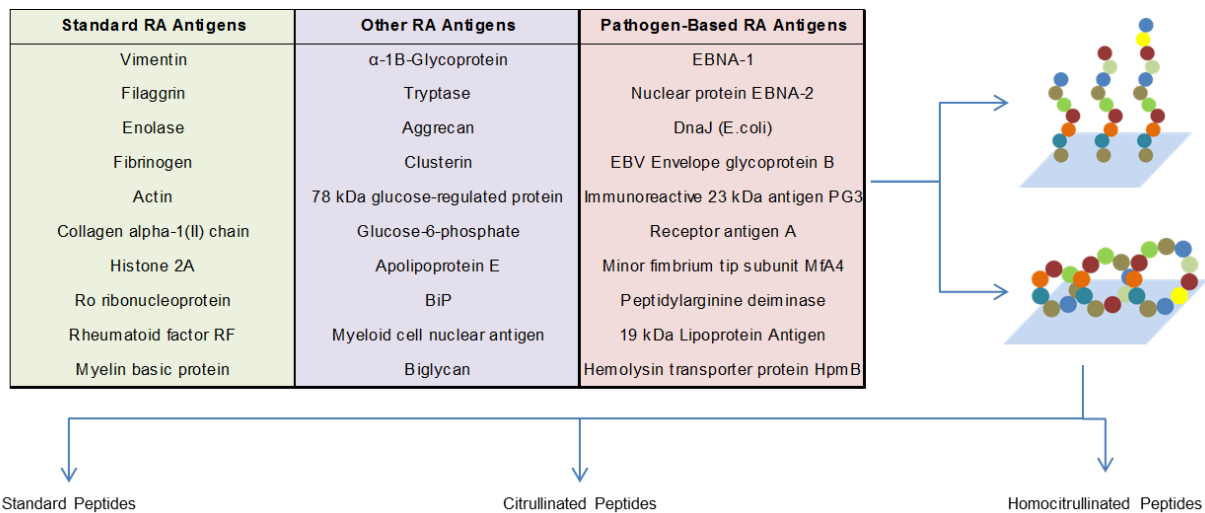
*"We used PEPperPRINT's Infectious Disease Epitope Microarrays to analyze the serological response to pathogens in patients with autoimmune disease. I can highly recommend PEPperPRINT - the support I received for both technical queries and data analysis exceeded all my expectations!"*

**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 research:

## 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, Filaggrin, Enolase or Fibrinogen, new autoantigens (BiP,  $\alpha$ -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**



## 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

