

## FUNCTIONAL SELECTION OF ANTIBODIES

A new method allows the enrichment of functionally active antibodies from sera or immunoglobulin preparations for more efficient immunotherapies. The method has been shown to improve the neutralising effect of preparations for passive immunotherapy of a viral infection but can also be used to improve the efficacy of vaccines or immunomodulation in autoimmune diseases.

### BACKGROUND

Immunoglobulin (Ig) preparations are used widely for prevention or treatment of infectious as well as autoimmune diseases by inducing, enhancing, or suppressing an immune response. Current Ig-preparations are pooled plasma products and donors may be further selected according to titres of Ig of interest (hyperimmunoglobuline (HIG)) to attain the highest desired response. Nevertheless, efficacy of Ig preparations against different diseases is variable because polyclonal sera, the source of Ig preparations, include also Ig of unintended specificity which may counter-act beneficial Ig. This reduces or even eliminates the therapeutic effect. To address this problem, a method for functional selection of antibodies was developed.

### TECHNOLOGY

The method selectively enriches effective antibodies or removes ineffective or even counter-acting antibodies from preparations for immunotherapy. A more detailed description of the technology will be available once the patent application has been filed.



### BENEFITS

- Selection of effective Ig
- Enhancement of efficacy of Ig preparations

### APPLICATION

- Preparation of more effective immunoglobulin preparations for immunotherapy

**REFERENCE:**  
525.14

**KEYWORDS:**  
■ Immunotherapy  
■ Antibody

**AVAILABLE FOR:**  
■ Development partnership  
■ Licence

**DEVELOPMENT STATUS:**  
*In vitro* proof of concept,  
laboratory scale method  
established

**IPR:**  
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### CONTACT:

■ **Helga Kroschewski**  
Medical University of Vienna  
Technology Transfer Office  
Spitalgasse 23, 1090 Vienna  
T: +43-1-40160 25201  
helga.kroschewski@  
meduniwien.ac.at

Scientific:  
■ **Assoc. Prof. Dr.  
Christoph Steininger**  
christoph.steininger@  
meduniwien.ac.at