

## 1. Company

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Founded: 2003. CEO: Dr Peter Trinder, CSO: Prof Dr Markus Maeurer  
Website: [www.thymed.com](http://www.thymed.com)

Thymed provides comprehensive immune system testing services to pharmaceutical and biotechnology companies and other organisations developing new drugs, therapeutics and vaccines. We perform rational vaccine design via our B-cell, killer T-cell and helper T-cell epitope discovery and validation platforms. Our services include *ex vivo* immunogenicity testing of biosimilars, vaccines and therapeutics, immunotoxicology studies, and immune monitoring of clinical trials for development (or rescreening) of drugs, therapeutics and vaccines. Thymed holds certificates of conformity for ISO 9001:2000 and GLP.

## 2. Core Competences

1. **Biomarkers** - Characterize biomarkers in relation to disease and immune system status and in response to the novel therapeutic or new drug entity. Identify non-responsive patient populations.
2. **Epitope Discovery** - Identify novel epitopes and immunogenic regions on individual antigens via our unique and validated platforms for screening killer T-cell epitopes, antibody signatures/epitopes and helper T-cell epitopes.
3. **Epitope Validation** - Utilize T-cell based assays or ELISA/EIA and peptide microarrays to screen relevant patient cells or body fluid to validate novel and existing epitopes.
4. **Vaccine Design** - Design novel vaccines and companion biomarkers/diagnostics
5. **Biosimilars** - Is the immune response/immunogenicity profile of your biosimilar identical to the original biological in *ex vivo* whole blood?
6. **Immunotoxicology** - Does your novel vaccine, therapeutic or new drug entity impact on immune cell survival / activation / proliferation *ex vivo*?
7. **Immunogenicity Testing** - Is your novel vaccine, therapeutic or new drug entity immunogenic? Does it activate immune cells?
8. **Immune Monitoring** - Monitor the patient for effects on the immune system in response to developmental therapy.

**Fields of use:** Allergy, Autoimmune Disease, Cancer, Immunology, Infectious Disease, Inflammation, Transplantation, Vaccines

## 3. Cooperations offered and requested

**Keywords:** Allergy, Autoimmune Disease, Biomarkers, Cancer, Epitope Discovery, Immune Monitoring, Immunogenicity Testing, Immunotoxicology, Infectious Disease, Inflammation, Screening, Transplantation, Vaccines

### **Type of Cooperation:**

- Services, Contract Research
- In-licensing
- Alliances
- Cooperative Marketing Agreements
- Co-development

### **Particularly interested in:**

- Development of new IP through use of epitope discovery platforms & immunogenicity/immunotoxicology screening platform.
- Vaccine co-development projects.
- Partnering with clinical contract research organizations.
- Development of new methods in detection and measurement of immune responses