

# PERIPHERAL BLOOD MONONUCLEAR CELLS

As critical components of the immune system, Peripheral Blood Mononuclear Cells (PBMCs) are extensively used in research, diagnostics, and therapeutic development.

## UNDERSTANDING PBMCs

The team of scientific experts at QPS understands PBMCs and the crucial nature of blood cells involved in the body's immune response, including T cells, B cells, natural killer cells, and monocytes. PBMCs are isolated from blood samples for research in immunology, oncology, and infectious diseases, providing insights into immune function and treatment responses. The isolation process typically uses density gradient centrifugation to obtain a buffy coat rich in PBMCs.

### QPS PBMC Services

- ▶ QPS operates two laboratories equipped for optimal PBMC separation, offering standalone services or integrated clinical trial support
- ▶ Facilities include advanced equipment for cell counting, whole blood stimulation, cryopreservation, and long-term storage of PBMC samples
- ▶ Experienced staff ensure compliance with regulatory standards and timely execution of clinical trials

### QPS PBMC Expertise

- ▶ PBMC isolation and cryopreservation
- ▶ Three experienced certified technicians
- ▶ -80 freezers
- ▶ Leucosep tubes utilization
- ▶ Liquid Nitrogen tanks holding >10,000 cryovials
- ▶ Certified to perform whole blood stimulation

### Clinical Significance of PBMCs

- ▶ PBMCs are vital in studies related to immunology, vaccine development, and drug trials, serving as indicators of cellular immune responses
- ▶ QPS provides high-quality data and direct access to technical staff, enhancing collaboration and communication throughout the research process

### QPS Global Reach

- ▶ QPS is a global, full-service contract research organization (CRO) with locations worldwide, offering comprehensive bioanalytical, preclinical and clinical research services across multiple therapeutic areas
- ▶ QPS supports drug development from preclinical studies through clinical trials and regulatory filings across the US, EU, Asia, Australia and India

## QPS CLINICAL RESEARCH OPERATIONS

- |                                 |                                   |                                |
|---------------------------------|-----------------------------------|--------------------------------|
| ▶ Project Management            | ▶ Data Management & Biostatistics | ▶ Regulatory & Medical Affairs |
| ▶ Patient Recruitment           | ▶ Medical Writing                 | ▶ Safety & Pharmacovigilance   |
| ▶ Clinical & Medical Monitoring | ▶ Site Selection & Feasibility    | ▶ Quality Assurance            |

Since 1995, QPS has provided discovery, preclinical, and clinical drug development services. An award winning leader focused on bioanalytics and clinical trials, QPS is known for proven quality standards, technical expertise, a flexible approach to research, client satisfaction and turnkey laboratories and facilities. For more information on QPS, visit [www.qps.com](http://www.qps.com), or email [info@qps.com](mailto:info@qps.com).

## QPS PBMC CAPABILITIES

QPS has two fully equipped PBMC laboratories with experienced technicians who can perform optimal separation of lymphocytes and peripheral mononuclear cells. PBMC services can be provided as a stand-alone service, or as part of a full-service clinical trial.



Professional and Experienced Staff



Global Flexibility & Capacity

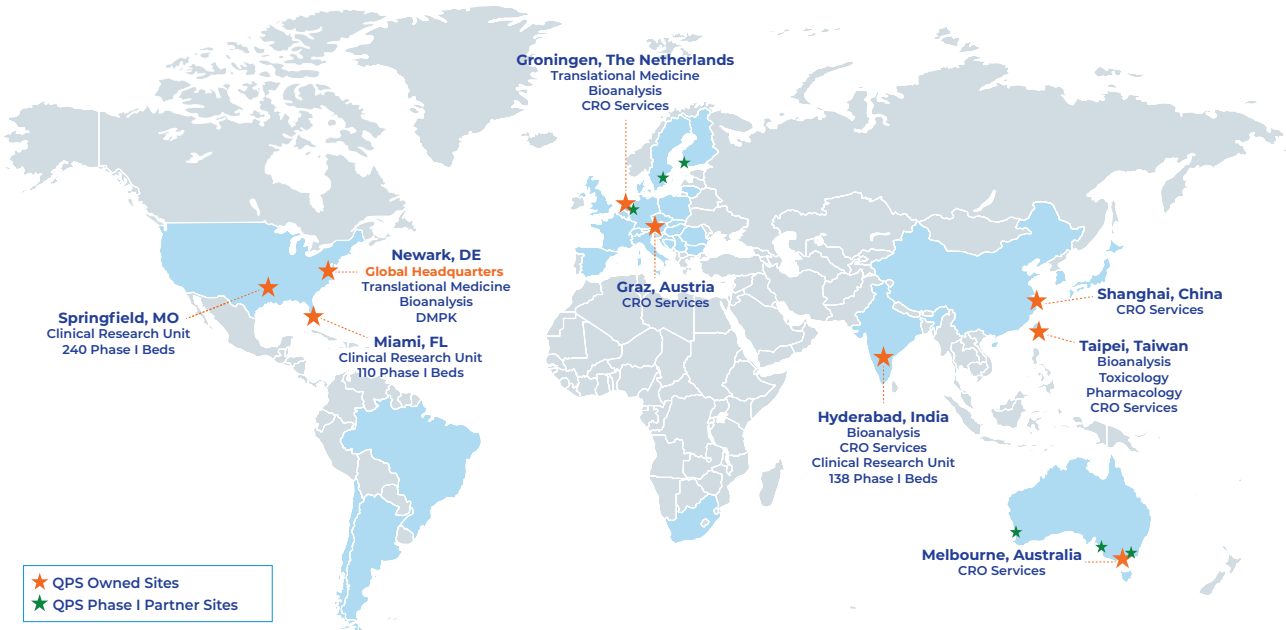


Robust Clinical Laboratories



Clinical Trial Integration

## QPS CLINICAL TRIAL SITES AND NETWORK LOCATIONS



Discover how QPS can accelerate your clinical research.

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