

Organization

Osaka MCH

Laboratory (Research Institute)

Prof. Yoshinao Wada

Collaborators (Biochemists & Technicians)

Clinic (Hospital)

Dr. Nobuhiko Okamoto (Pediatric Neurology & Medical Genetics)

Board & Support

Osaka University (The 21st Century Center of Excellence Program)

Prof. Naoyuki Taniguchi

Prof. Akihiro Kondo

Prof. Tatsushi Toda

Prof. Kunihiko Suzuki (Tokai University)

Prof. Kousaku Ohno (Tottori University)

Dr. Isamu Yuasa (Tottori University)

Prof. Hudson Freeze (The Burnham Institute, USA)

HGPI members

Serum Transferrin Analysis Options

Method	Advantages	Disadvantages
Ion Exchange HPLC	No antibody needed Can be automated 20 samples/day	200 µl needed 45 min. sample No structural info
Capillary Zone Electrophoresis	Fast (15 min.) No antibody needed	Contaminants No structural info
IEF	Inexpensive Multiple samples (20-50/day) 2 µl	Need antibody No structural info
ESI-MS	Structural info Sensitive (10 µl) Automated (50-100/day)	Expensive instrument Need antibody
PNGaseF-Oligosaccharide	Type II	Cannot determine absence of entire chains