

THE CENTER FOR ANALYTICAL INSTRUMENTS**(managed by NIBB)**

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The Center is responsible for amino acid sequence analysis, amino acid analysis, and chemical syntheses of peptides, as well as supporting researchers at NIBB and NIPS. Confocal Laser Scanning Microscope(OLYMPUS FV1000) and Fluorescence Microscope (KEYENCE BZ-8000) were newly installed in 2006. The Center's instruments can be used by researchers outside the institute upon proposal.



Figure 1. Protein sequencers



Figure 2. MALDI/TOF-MS

Representative Instruments

Protein Sequencers (ABI Procise 494HT, 492cLC)
 Amino Acid Analyzer (Hitachi L8500A)
 Peptide Synthesizers (ABI 433A)
 Plasmid Isolation Systems (Kurabo PI-100Σ, PI-50 α, PI-50, PI-200)
 Automatic Nucleic Acid Isolation System (Kurabo NA-2000)
 Genetic Analyzer (ABI PRISM 3130xl, 310)
 Thermal Cyclers (Perkin Elmer PJ-9600, Takara TP-300, Biometra TGRADIENT)
 Integrated Thermal Cyclers (ABI CATALYST Turbo 800)
 Particle Delivery System (Bio-Rad BiologicPDS-1000/He)
 Gas Chromatograph (Shimadzu GC-14APF-SC)
 High Performance Liquid Chromatographs (Shimadzu LC-10AD, LC-6AD, Waters 600E, Alliance UV system)
 Integrated Micropurification System (Pharmacia SMART)
 Flow Cytometer (Coulter EPICS XL)
 Biomolecular Interaction Analysis Systems (Pharmacia BIACORE 2000, Affinity Sensors IAsys)
 Laboratory Automation System (Beckman Coulter Biomek 2000)
 ESR Spectrometer (Bruker ER-200D)
 GC/Mass Spectrometer (JEOL DX-300)
 MALDI/TOF-MS (Bruker Daltonics REFLEX III)
 Inductively Coupled Plasma Atomic Emission Spectrometer (Seiko SPS1200A)
 Spectrofluorometers (Hitachi 850, F-4500, Shimadzu RF-5000)
 Spectrophotometers (Hitachi 330, 557, U-2001, Varian Cary 5G, Perkin Elmer Lambda-Bio)
 Microplate Luminometer (Berthold MicroLumat LB 96P)
 Microplate Readers (Corona MTP-120, MTP-100F)
 FT-IR Spectrophotometer (Horiba FT-730)
 Bio Imaging Analyzers (Fujifilm BAS 2000)
 Luminescent Image Analyzer (Fujifilm LAS 3000 mini)
 Fluorescence Bio Imaging Analyzer (Takara FMBIO)
 Microscopes (Carl Zeiss Axiophot, Axiovert)
 Environmental Scanning Electron Microscope (PHILIPS XL30 ESEM)
 Confocal Laser Scanning Microscope (Leica TCS SP2, OLYMPUS FV1000)
 Fluorescence Microscope (KEYENCE BZ-8000)
 Color Laser 3D Profile Microscope (KEYENCE VK-8500)
 High-Resolution Quick Microscope (KEYENCE VH-5000)