



Used/reconditioned biotech lab equipment worldwide
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Oligosynthesizers:

<u>Make & Model</u>	<u>Comments</u>
Expedite 8909	Rebuilt w/ new ABI valves, Trityl.& M.O.S.S. Available. ABI's successor to the 394. Easily modified for micro-RNA.
ABI 394	Rebuilt
ABI 394	Trityl, MAC, rebuilt: Easily modified for micro-RNA.
ABI 392	Rebuilt
ABI 391	Rebuilt
ABI 3900	
ABI 3948	Rebuilt, and includes installation
Beckman 1000M	
Biosearch 8700	Rebuilt; Phoenix upgrade (>35% efficiency gain)
BioSearch 8750	Rebuilt; Phoenix upgrade (>35% efficiency gain)



High throughput Oligo synthesizers

BLP 96 "Dr. Oligo"	2x capacity, with less reagent consumption, and better software than old ABI 3900. Many options available.
BLP 192 "Dr. Oligo"	2 plates, 8 min. cycle time. Many options available.
Mermade V	Includes: installation
Mermade I	96-well. Includes: installation
Bioautomation Mermade 192	192-well. Includes installation
Bioautomation Mermade 384	384-well Includes installation

Oligosequencers:

<u>Make & Model</u>	<u>Comments</u>
Roche 454 FLX	W/Titanium upgrade. Install and service contracts by Roche avail.
ABI 3730XL	Call for details
ABI 3130xl	Call for details
ABI 3100	Call for details
3130, 3730	XML script module. Does not affect ABI service contracts. 50% throughput increase. Includes installation
ABI 310	Mac.based.
ABI 310 XP	PC-based.
ABI 377	96-lane; Includes: installation
Sequencer Lasers	At considerable savings
Beckman CEQ 8800	Includes installation
Qiagen Biorad MDX DNA prep robot	
MegaBace 4000	
LiCor 4200L	W/Global Upgrade
LiCor 4300L	Two units available
Pharmacia ALF Express	

Real-time PCR:

ABI 7900HT	Call for details
ABI 7700	Call for details
ABI 7000	Includes installation
ABI 6700	Automated PCR prep system.
BioRad iCycler IQ4	4 color.



Peptide synthesizers

<u>Make & Model</u>	<u>Comments</u>
ABI 433	Rebuilt
ABI 430	Rebuilt
ABI 432	Rebuilt
Symphony (Rainin/Protein Tech)	Rebuilt with Windows operating system
Sonata	Rebuilt with Windows operating system
Super-ACT 396	Custom upgrade to produce 24 peptides in parallel; equal to two Symphonys
ACT 369	Rebuilt
ACT 496	Refurbished
ACT Vanguard	Refurbished
ACT 357-MPS	
ACT Vantage	Excellent condition.
ACT LabTech III	
ACT 90	Refurbished
We offer full support, including service contracts, for all ACT instruments.	
PerSeptive Pioneer	Rebuilt
Pioneer, MPS unit valves	Rebuilds, replacements available.
MPS unit for the Pioneer	New and unused; price = 25% of new cost.
PerSeptive 9050	Rebuilt
PerSeptive 9500	Rebuilt
PerSeptive 9600	Rebuilt
Argonaut Nautilus	Complete and operational.
Argonaut Quest 205	ASW model
Argonaut Quest 210	ASW model

<u>Make & Model</u>	<u>Comments</u>
ABI 494 HT	Refurbished with new data system, includes installation

Peptide sequencers:

ABI 492 cLc	Refurbished with new data syst em, includes installation
ABI 473/476	Installation/Service is available
Beckman 6300	Includes: computer/software.

<u>Make & Model</u>	<u>Comments</u>
Q-Star Elite	Includes: 1100 w/DAD, and installation
Q-Star XL	Includes installation



Q-Star Pulsar i

Includes installation

LC/MS, MS/MS, hybrids & Ion traps:

Q-Star nanospray source	Proxeon.
Sciex API 3000 w/ Ionics upgrade	Appx. sensitivity of API 4000. Includes installation
Sciex API 4000 QTRAP	
Sciex API 4000	
Sciex API 3000	
API 3000 upgrade	HSID++ from Ionics. Increases sensitivity and (S/N) ratio at high flow rates to ~ that of an API 4000.
Sciex API 2000	
Sciex API 2000 w/ API 3200 performance	Includes: Ionics EPQ+ upgrade to API 3200 specs
Sciex API EPQ+ 2000 upgrade	From Ionics. To API 3200 specs.
Sciex API 365	Includes: ESI source
Sciex 365 w/ Ionics upgrade to better than API 4000	Appx. 2x the sensitivity of API 4000.
Sciex API 165	Includes: installation
Sciex API 150EX	Solid benchtop single quad. Includes installation
Sciex NT workstation	Use to upgrade Macs on 150, 365, 2000, 3000.
Sciex API III+	Triple quad: ES, APCI; includes installation
Sciex TurboIonspray source	
Sciex APCI source	For API 150, 365, 3000.
Sciex MicroIon spray source	For API 150, 300 or Q-Star. Very low flow.
PE-ABI Mariner	ESI-TOF. Includes installation
Agilent 6410AB	Fully tested/customer ready
Agilent G1980A Esquire Trap	Fully tested/customer ready
Agilent 1100 MSD Trap (SL)	Includes installation
Agilent 1100 MSD SL	Incl. HPLC, DAD, and installation
Agilent 1100 MSD Trap (VL)	Includes installation
Agilent 1100 MSD Trap	G2445A. 2002 model. ESI, APCI, APPI. Includes installation
Agilent 1100 MSD system	1946D; includes pump, a/s, DAD, and installation
Agilent G6140A	High throughput single quad. Agilent refurbish
Agilent 1100 MSD	A model. Includes 1100 HPLC, variable detector, and installation Can be reconfigured.
Agilent 1100 MSD G1946D	Rebuilt
Agilent APPI source	
Agilent 1100 APCI	Refurbished
Finnigan DECA XP MAX	Includes installation
Finnigan DECA XP+	Includes installation. Surveyor HPLC available
DECA XP+ nanospray source	
DECA nanospray source	
DECA APCI source	
DECA XP APPI source	
Finnigan LCQ Advantage	Agilent 1100 system available. Includes installation



Prep-scale purification system	HPLC, mass spec, and fraction collector/ installation included.
Finnigan LCQ Duo	Includes installation. Surveyor HPLC available
Finnigan LCQ Classic	ESI; installation included.
MassTech AP-MALDI source	For Finnigan LCQs.
LCQ Classic APCI	
LCQ ESI source	
Finnigan AQA	Single quad. Guaranteed good condition.
Finnigan LTQ-FT (or LTQ XL)	
LTQ IonMax APCI probe	
Finnigan TSQ Quantum Classic	Top-notch triple quad. Surveyor HPLC Stack available.
Finnigan TSQ Quantum Ultra	Upgraded from a Classic with Surveyor HPLC Stack
Finnigan TSQ 7000	GC/MS/MS fully furnished
Finnigan TSQ Classic	GC and LC. HPLC, and includes installation
Varian 1200L	Both GC/MS/MS and LC/MS/MS kits.
Hitachi M 8000	Ion trap. 1999; excellent condition; includes LC.
Micromass LCT	Excellent condition; Fast pos-neg ion switching.
Micromass Q-Tof Ultima	Includes installation/ Software license extra.
Waters Q-Tof API-US	Includes installation/software license extra.
Micromass Q-Tof Micro	Includes installation, CapLC, and ESI
Micromass Q-Tof II	Includes installation
Micromass Q-Tof I	Including installation. Packings Nano-LC available
Micromass Quattro Micro	Includes installation, and 2795 LC
Micromass Quattro Ultima	Includes installation
Micromass Quattro LC	EPCAS upgrade.
Micromass Quattro IIZ	Z-Spray. Includes installation
Micromass Quattro II	ESI, APCI, Masslynx 3.5, includes installation
Micromass EPC	Computer, TDC board and boot floppy.
Micromass Platform LC	Includes installation
MM/Waters ZQ 4000	Includes installation
MM/Waters ZQ 2000	Includes installation
Micromass ZMD 4000	Includes installation/ HPLC available
MM/Waters ZMD 2000	Includes installation/HPLC available
Bruker 3000+	2003 instrument. Guaranteed good working order.
Bruker Apex II FT-MS	7 T magnet; good working order.
Fisons VG 2000	
Fisons VG Trio	LC + GC: 3000 amu; thermospray, EI/CI, HP 5890 included.
Voyager DE	Includes installation
Voyager DE STR	Includes installation
Voyager DE PRO	Includes installation
Voyager DE RP	Extensively refurbished.
Voyager RP	Includes installation Will QC peptides; continuous extraction.
Voyager Elite XL	Includes: Vestec Multi-gauge, Advantec fraction collector



Mass spec sample introduction systems are available.

ABI/Sciex 4700 4700 & 4800 lasers	Includes installation New.
<u>MALDI-TOFs:</u>	
Q-Star oMALDI 2 source	Voyager MALDI lasers: rebuilt; full warranty; ~2/3 price of new; installation available.
Mariner ESI-TOF	Includes installation
Mariner ESI-TOF Sequenom MassARRAY/MALDI-TOF Sequenom Kompact MassARRAY	Includes installation /Integral HPLC; ideal for peptide QC. 2005
MicroMass MALDI LR	Includes installation . (Offers considered.)
Micromass Reflectron	Includes MassPrep enclosed robotic sampler system. Installation available.
MicroMass LC-TOF	API-LC/Orth. 2000 model. Manufacturer-certified.
MicroMass TOF 2e-Spec	1999; many options; good working order.
MicroMass LCT ESI-TOF. Includes HPLC.	
Bruker Autoflex II	
Bruker Reflex IV	2001 model; list \$300K. Includes: ion source, TOF analyzer, detector two NT processing stations.
Bruker Reflex III	Includes chiller, standalone AS-90.
Bruker Biflex IV	
Bruker Biflex III	
Bruker Omniflex III	2003 model; PSD option
Thermo-Finnigan Dynamo LaserTec II	Linear DE benchtop system. Includes shipping, and installation By PerSeptive. 5 yrs. old; excellent condition.
JEOL ESI-TOF	2006 model. Includes installation by JEOL
Ciphergen SELDI-TOF	ProteinChip Reader PBS II. Excellent condition.
SRI custom design	Ideal for SNP determination. 384 samples/20 min. Can be tested.
Finnigan MAT Vision 2000	Reflectron. Includes installation
VG Tof-Spec	For parts; new laser card and other new boards.
Waters MALDI prep device	Used only once. Includes plates and kits.
Waters MALDI prep device HP 5890 II/5972	Used only once. Includes plates and kits.
HP 6890N w/ 5973 HP 5989 MS engine	2000 amu mass range, pos/neg CI, APCI.
Also available: service/contracts on Voyager, Finnigan and Micromass MALDIs	
Perkin Elmer Clarus 600	
Finnigan TSQ	"New style" post-7000 TSQ, LC+GC; new Trace GC, CTC 200 autosampler, EI/CI, API 2 LC source.



<u>GC/Other MS:</u>	Finnigan Magnum
	GC/MS Ion trap; incl. GC.
Finnigan TSQ 7000	GC/MS/MS. Includes installation
Finnigan MAT SOLA	8 yrs. old; includes GF, and hydrides gen.
Finnigan MAT95/95S	
MAT 900/900S/900Trap	
Varian 310 LC/Tandem MS	A gem for tandem MS applications
Varian Saturn 2100T	GC/MS/rebuilt
Varian 200/200R Saturn	CP800 GC, 8200 autosampler
Micromass VG70V SE	Hi-res. Includes:5890 Series II GC, LSIMS source, & installation.
VG Trio GC/MS	Guaranteed good working order/can be inspected
VG Autospec Ultima	Installed and working now.
VG SIRA	Isotope ratio MS. Installation available.
MSI AutoConcept	New; multiramp temp; Agilent GC and Agilent or CTC autosampler. Includes installation
TJA 61E Trace	Including installation.
PE 6100 Elan DRC+	
Micromass Platform ICP-MS	MegaFlow-Z Coaxial Probe.
Micromass Platform ICP Hex-MS	
HP 4500 ICP-MS	

Liquid handlers:

- ◆ Dionix LC Packings UltiMate NanoLC system w/ cooled FAMOS autosampler, Switchos avail.
- ◆ Dionex LC Packings UltiMate Capillary/Nano LC System: w/ Ultimate, Famos, Switchos, Probot, Software, complete.
- ◆ Leap/CTC Analytics HTS PAL
- ◆ Cohesive 2300 HTLC w/ CTC HTS Pal
- ◆ MicroMass/Waters CapLC
- ◆ Beckman Biomek NX
- ◆ Beckman Biomek FX Single arm 96-well. Reasonable offers considered
- ◆ Beckman Multimek,
- ◆ Hamilton ML 4000
- ◆ Hamilton ML 4200
- ◆ Tecan Freedom EVO 200 with RoMa arm :Like New
- ◆ Tecan RSP-200/8 with RoMa arm
- ◆ Tecan Genesis RSP 100
- ◆ Packard Multiprobe II EX
- ◆ Qiagen M48 DNA/RNA extraction robot:
- ◆ Qiagen BioRobot 8000
- ◆ Qiagen 9600 BioRobot
- ◆ Qiagen BioRobot 3000
- ◆ Gilson 215 autosampler
- ◆ Zymark Twister
- ◆ Zymark tip carousel and automated dispense/filtration sys. w/ four 8-channel Cavro pumping stations:
- ◆ Hamilton Star:
- ◆ Scitec robotic liquid handling system, 3-meter rail



NMRs:

- ◆ BrukerAvance 400 shielded, or unshielded. (TOPSPIN available)
- ◆ Bruker AC 200: TecMag upgrade, includes installation
- ◆ TecMag data system for AC 200/250/270/300
- ◆ Bruker AC 250: Includes installation.
- ◆ Bruker AC 270: Includes installation
- ◆ Bruker AC 300: Includes installation
- ◆ Bruker AM 360: Includes installation
- ◆ Bruker AMX 500: Includes installation
- ◆ Bruker PC 120 Minispec:
- ◆ Varian Inova 500 shielded: Includes installation
- ◆ Varian Inova 300: Includes installation in the US.
- ◆ Varian Inova 400 shielded:
- ◆ Varian Inova 500: Unshielded. Broadband; 3 probes; 2 channel. Includes installation
- ◆ Varian Inova 500 MHz Shielded
- ◆ (we purchase old EM360s and EM390 magnets)
- ◆ Others available; inquire if interested.

Flow cytometers:

- ◆ BD FACSCalibur: 4 color. Rebuilt, installation/service contract available.
- ◆ BD FACSVantage: Watercooled laser, installation available.
- ◆ BD FACScan: 3-color. Installation available.
- ◆ BD FACSSort, 3-color: Rebuilt, installation/service contract available
- ◆ Coulter Z-1 , or Z-2
- ◆ Coulter FC500 MPL: 5 color, installation/ service contract available
- ◆ Coulter EPICS XL-MCL: 4 color./installation, and warranty
- ◆ Coulter EPICS XL: 3-color. Includes installation. 4th color available
- ◆ Coulter EPICS PROFILE II : Includes warranty
- ◆ Coulter EPICS ALTRA.: Installation available
- ◆ MoFlo SX: Contact us for details
- ◆ MoFlo Legacy, 3 laser, 9 color. Includes warranty
- ◆ MoFlo: 2 laser, 6 color. Includes warranty

Capillary Electrophoresis:

- ◆ Agilent G1600AX 3D CE system: Includes warranty
- ◆ Beckman P/ACE MDQ with LIF option: Includes warranty
- ◆ Beckman P/ACE MDQ: includes warranty
- ◆ BioRad Chef Mapper XA: Includes warranty
- ◆ Beckman Coulter CEQ 8000: Includes installation, and warranty



Arrayers/spotters/readers:

- ♦ Illumina Beadstation 500GX BeadArray Reader: Includes warranty
- ♦ Affymetrix GeneChip Scanner 3000 7G system: with autoloader: Includes installation and warranty
- ♦ Agilent 2100 Bioanalyzer Chip Reader G2938A : Includes warranty
- ♦ Agilent 2100 Bioanalyzer Chip Reader G2938C: Includes warranty
- ♦ Agilent G2565B. Includes warranty
- ♦ Genepix 4200A microarray scanner: 4 laser: Includes warranty
- ♦ Genepix 4000A microarray scanner: Includes warranty
- ♦ CIPHERgen ProteinChip Reader PBS II: Includes warranty
- ♦ Amersham Lucidea Array Spotter 24 pen:

Spot pickers and gel readers:

- ♦ Typhoon 9400: re-certified by GE, trained technician. Includes warranty
- ♦ Typhoon Trio+: Includes warranty
- ♦ Genomic Solutions Progest digestion robot: Includes installation and warranty
- ♦ Genomic Solutions Pro-Pic FLX 51001: Includes installation and warranty
- ♦ Genomic Solutions BioPick BP- 600: Includes warranty
- ♦ Genetix QPix2 colony picker: Includes warranty

Microscopes:

- ♦ Zeiss 510 META confocal: One inverted, one standard.
- ♦ Meridian ACAS 570C LSCM
- ♦ Various (AFM) Atomic Force Microscopes available
- ♦ Various (SEM) Scanning Electron Microscopes available
- ♦ Various (TEM) Transmission Electron Microscopes available
- ♦ Various surgical, neuro surgical microscopes available
- ♦ Various optical microscopes available

Thermal cyclers:

- ♦ Eppendorf MasterCyclers, 96-well, and 384-well available
- ♦ ABI 9700 96-well thermal cyclers: aluminum block/silver block/gold block : Includes warranty
- ♦ ABI 9700 384-well thermal cyclers: Includes warranty
- ♦ ABI 9700 with dual 384-well blocks: Includes warranty
- ♦ MJ Research Tetrad PTC-225, 96 or 384 well blocks w/ gradient: Includes warranty



Miscellaneous:

- ◆ Bruker X-Ray Crystallography (Smart Apex II System):
- ◆ Thermo-Nicolet AVATAR-360 FT-IR: Includes warranty
- ◆ Qiagen/Gentra Autopure: Contact us for details
- ◆ Thermo Electron Discovery SpeedVac Mark 2: 24 Deep Well Plate or 120 Shallow Well Plate capacity.
- ◆ TurboVap 96: Includes warranty
- ◆ Bruker/Enraf Nonius XR-590 X-Ray Diffractometer, good working order
- ◆ Luminex 100: Includes: warranty
- ◆ MD Acquest 1536-well ultra-HT plate reader:
- ◆ Spectramax Gemini XS Microplate Reader: Includes warranty
- ◆ Ventana Benchmark Discovery: Includes warranty

- ◆ Ventana Discovery Hybridization System: advanced slide staining platform for target and compound drug discovery. Details at www.ventanadiscovery.com. Call/email to discuss price, config.
- ◆ Molecular Devices/LJL Biosystems Criterion Analyst HT System: Includes warranty

- ◆ Wallac 1450 Microbeta Plus-6 detector: Includes warranty
- ◆ Wallac 1450 Trilux Microbeta- 6 detectors: Includes warranty

- ◆ Beckman LS 6500 Scintillation System: Includes warranty
- ◆ Accutag Radio Frequency Reader/10k Automated Microreactor Sorting System
- ◆ SRS Residual Gas Analyzer 200
- ◆ B Braun Biotech fermentors available
- ◆ New Brunswick MicroFerm fermentor (MF-114): 14 liter, with agitation.

- ◆ ABI 877: (several available) : Offers considered
- ◆ Welch Duo Seal #1402 vacuum pumps (several available) "as is", or refurbished:

- ◆ Biacore X: Guaranteed in good working order.
- ◆ Biacore Q: Guaranteed in good working order

- ◆ MD PhosphorImager Storm 860: Includes warranty

HPLC/FPLC:

Contact us for your HPLC, and FPLC needs.

We carry most configurations from manufacturers such as:

Agilent, Beckman Coulter, GE Pharmacia, Shimadzu, Surveyor, Waters, and More.

- ◆ Dionex LC Packings NanoFlow HPLC System: Ultimate, FAMOS w/ cooling; Switchos available.
- ◆ Transgenomic WAVE 3500HT DHPLC: 2004; excellent condition; includes 2007 Surveyor Mutation Detection fluorescence detector



Spectrophotometers:

- ◆ Beckman DU 640 UV/Vis/NIR
- ◆ Beckman DU 530 UV/Vis
- ◆ Agilent 8453 Diode Array Spectrophotometers: price depends on accessories.
- ◆ MD SpectraMax Plus 384: high throughput microplate reader

More available

Services:

We support most models in the following product categories, and service contracts are available.

- ◆ Sequencers
- ◆ Synthesizers
- ◆ Mass Specs
- ◆ MALDIs
- ◆ Real-Time Detection Systems
- ◆ Thermal Cyclers
- ◆ Liquid Handlers
- ◆ We rebuild valve blocks for ABI 430, 431 and 39x, 90-day warranty
- ◆ **We now offer Laboratory Cleanroom Products, ESD Products, Static Control Products, and more. [call/email](#)**
- ◆ **We offer sequencing supplies (Sanger and NextGen) ,and sequencing project outsourcing options at considerable savings.**
- ◆ **We Offer high quality Sanger Sequencing universal primers & NextGen Sequencing adapter primers at very considerable savings. Customized sets available. Call/[email](#) for pricing.**

[Email olga@grizzlyanalytical.com](mailto:olga@grizzlyanalytical.com) for more information or if you have items to sell.
(Please include your phone number and company or institution's name)

Mike Sherrell, founder : 707 887 2919

[Tim Payton, Sales: HPLCs, Centrifuges, Liquid Handlers, etc., Service Contracts:](#) 631 444 5038

[Daniel Zorzon, Service Engineer:](#) 650 228 6898

[Peggy Perkins, Manager, Operations/shipping:](#) 843 452 0553

[All the items on this website are subject to prior sale.]
