

< SYSTEM >

No.	Maker	Item	Model	Vintage	Configuration	Remark
1	Waters	LC/MS/MS	Xevo TQ-XS	2019	<ul style="list-style-type: none"> •Xevo TQ-XS(UniSpray Source) •Acquity UPLC I-class -Binary Solvent Manager -Sample manager-FTN -Column manager 	
2	Waters	LC/MS/MS	Xevo TQ-MS	2010	<ul style="list-style-type: none"> •Xevo TQ-MS •Rotary vacuum pump •Acquity UPLC -Binary solvent manager -Sample manager -Column oven ※no N2 generator 	
3	Waters	LC/MS/MS	TQD	2008	<ul style="list-style-type: none"> •TQ Detector •Sogevac vacuum pump SV40-65 BIFC •Acquity UPLC -Binary Solvent Manager -Sample Manager -TUV Detector 	Upcoming in Jun
4	Thermo	LC/MS/MS	TSQ Quantum Discovery Max	2008	<ul style="list-style-type: none"> •Discovery Max •Surveyor MS Pump, Auto sampler 	
5	Shimadzu	GC/MS/MS	GCMS-TQ8040	2015	<ul style="list-style-type: none"> •GCMS-TQ8040 •AOC-20i (injector only) •NIST Library 	
6	Thermo	GC/MS/MS	TSQ Quantum XLS	2010	<ul style="list-style-type: none"> •TRACE GC ULTRA •TSQ Quantum XLS •TriPlus Autosampler(AS+HS) 	
7	Agilent	LC/MS/MS	6410-1100		<ul style="list-style-type: none"> •G6410B •1100Series •N2 Generator 	
8	ABSciex	MS/MS	API4000	2002	<ul style="list-style-type: none"> •API4000 •N2 generator ※no LC part 	
9	ABSciex	LC/MS/MS	API3200	2007	<ul style="list-style-type: none"> •API-3200(turbo v source) •N2 generator •Shimadzu Prominence LC (LC-20AD *2, CTO-20AC, SIL-20AC HT, DGU-20A3, CBM-20A, Tray) ※Compressor non-functional 	
10	Thermo	MS/MS	LTX-OrbiTrap	2006	<ul style="list-style-type: none"> •0723851 FINNIGAN LTX OrbiTrap •20011 ESI Probe(for ION MAX) ※no LC part 	
11	Agilent	GC/Q-TOF/MS	7890B/7200Q-TOF	2015	<ul style="list-style-type: none"> •7200Q-TOF •7890B GC •G4567A ALS 	

12	Agilent	ICP-OES	Agilent720	2013	<ul style="list-style-type: none"> •700 series ICP-OES •SPS-3 Autosampler •CA-1115A Chiller 	
13	Agilent	LC/MS	6125-1260	2013	<ul style="list-style-type: none"> •LC part -Bin pump G1312B -HiP Degasser G4225A -HiP ALS G1367E -Thermostat G1330B -Column oven CO705N(GL Sciences) •MS Part -MSD G6125B -Rotary pump(new) -N2 generator(AC100V-50Hz) ※ion source: ESI, APCI 	
14	JEOL	GC/MS	JMS-Q1050GC/7890A	2012	<ul style="list-style-type: none"> •JMS-Q1050GC QMS Basic body (EI Ion source) •7890A GC •EQ-12031HSA Headspace Auto sampler S-trap(Cryo) 	
15	Agilent	GC/MS	7890B/240MS	2014	<ul style="list-style-type: none"> •240MS (G3936AA) Ion Trap MS •7890B(G3440B) GC •G4513A Auto-Injector ※Option 	
16	Agilent	GC/MS	7890B-5977B	2016	<ul style="list-style-type: none"> •7890B GC •5977B MSD •G4513A Auto injector ※Option •7697A HSS ※Option 	
17	Agilent	Single MSD	5977A	2014	<ul style="list-style-type: none"> •5977A MSD •Vacuum pump ※no GC part 	
18	Shimadzu	GC/MS	GCMS-QP2010Plus	2006	<ul style="list-style-type: none"> •GCMS-QP2010Plus •TD-20 	Upcoming in Jun
19	Waters	UPLC	Acquity UPLC(H-class)	2012	<ul style="list-style-type: none"> •Quaternary solvent manager •TUV Detector •Sample manager-FTN •Sample Organizer •Column manager 	
20	Waters	UPLC	Acquity UPLC(H-class)	2017	<ul style="list-style-type: none"> •Quaternary solvent manager •Sample Manager •Column manager •PDA Detector 	Upcoming in Jun
21	Shimadzu	UFLC	Prominence	2014	<ul style="list-style-type: none"> •LC-20AD* 2 •DGU-20A5R •SIL-20AC •CTO-20AC •SPD-20AV(UV-VIS) •CBM-20A 	Upcoming in Jun
22	Agilent	HPLC	1260 Infinity LC	2016	<ul style="list-style-type: none"> •1260 Quat pump G1311B •1260 Autosampler G1329B •1290 Thermostat G1330B •1260 TCC G1316A •1260 UV-VIS G1314F •Solvent tray 	Upcoming in Jun
23	Agilent	HPLC	1260 Infinity LC	2016	<ul style="list-style-type: none"> •1260 Quat pump G1311B •1260 Autosampler G1329B •1290 Thermostat G1330B •1260 TCC G1316A •1260 UV-VIS G1314F •Solvent tray(steel type) 	Upcoming in Jun
24	Waters	HPLC	Alliance 2695	2007	<ul style="list-style-type: none"> •Alliance 2695 •Column heater module •2996 PDA 	Upcoming in Jun

25	JASCO	HPLC	LC-2000Plus	2002	<ul style="list-style-type: none"> •PU-2089Plus Quaternary Gradient Pump •CO-2065Plus Column oven •AS-2051Plus Autosampler 	
26	JASCO	HPLC	LC-2000Plus	2002	<ul style="list-style-type: none"> •PU-2089Plus Quaternary Gradient Pump •CO-2065Plus Column oven •AS-2051Plus Autosampler •UV-2077Plus UVD •UV-2075Plus UVD •RI-2031Plus RID 	
27	Metrohm	IC	761 Compact IC		<ul style="list-style-type: none"> •Metrohm 761 Compact IC •Dionex AS40 Automated Sampler 	
28	Agilent	GC	7890B/8355	2018	<ul style="list-style-type: none"> •7890B GC •8355 SCD 	Upcoming in Jun
29	Agilent	GC	7890B	2015	•7890B GC(FID, TCD)	Upcoming in May
30	Agilent	GC	6890N	2006	•6890N(FID)	Upcoming in Jun
31	Shimadzu	GC	GC-2010	2009	<ul style="list-style-type: none"> •GC-2010 •Inlet, FID •AOC-20i ※no Software ※temperature sensor & circuit board non-functional 	Upcoming in Jun
32	Shimadzu	GC	GC-2010Plus	2010	<ul style="list-style-type: none"> •GC-2010Plus(FID) •AOC-20i ※no software 	
33	Shimadzu	GC	GC-2010Plus	2015	<ul style="list-style-type: none"> •GC-2010Plus AT(TCD) •multi mode inlet OPTIC-4SC •Air compressor SLP-07EED ※no recovery software 	
34	Shimadzu	GC	GC-2014	2008	<ul style="list-style-type: none"> •GC-2014*2 (FID) •AOC-20i*1 ※no software 	
35	Agilent	AAS	AA280Z	2016	<p>[Furnace type]</p> <ul style="list-style-type: none"> •Agilent 280Z AA furnace AAS •130 Sample carousel •Chiller(for Furnace) 	
36	Varian	AAS	AA240Z			
37	Thermo	AAS	iCE3500	2012	<ul style="list-style-type: none"> •CE3500 Zeeman Flame/Furance AA system •HYD-10U, HYD-20U1 	Upcoming in Jun
38	Shimadzu	AAS	AA-6650F	2002	<p>[Flame type]</p> <ul style="list-style-type: none"> •AA-6650F 	
39	Hitachi	AAS	Z-2010	2012	[Tandem type(Flame&Graphite furnace)]	
40	Hitachi	AAS	Z-2010	2010	<p>[Tandem type(Flame&Graphite furnace)]</p> <ul style="list-style-type: none"> •Z-2010 Zeeman AAS •SSC-230 Autosampler •HFS-3 •Chiller •Compressor 	Upcoming in Jun
41	JASCO	UV-VIS	V-660	2010	Wavelength range: 187 to 900nm	
42	JASCO	UV-VIS	V-530	2005	Wavelength range: 190 to 1100nm Touch panel	
43	LNI	Air Generator	Zero Air		ZA-6L-EU	

44	JEOL	Auto Amino Acid Analyzer	JLC-500/V2	2009		
45	Agilent	Bio Analyzer	2100	2008		
46	Nikon	Confocal Laser Scanning Microscope	A1R	2014	<ul style="list-style-type: none"> •FN1 Fixed Stage Microscope for Electrophysiological Research(Fluorescence & DIC type, with Piezo lens 450, CFI S Fluor 4x, Plan Fluor 10x, Plan Apo Lambda 20x, 40x, Apo Lambda S 40x W) •Diode Laser 405nm 100mW •Fixed Laser 488nm 20mWC •Fixed Laser 561nm 20mWC •Diode Laser 440nm 20mW •LU4A 4-laser unit A •NIS-Elements C AR-SP •A1-SHR A1R Scanner set •A1-DUG GaAsP Multi detector unit •A1-DUT Diascopic Detector unit •Fluorescence Filter(for 4 detectors) •Dichroic Mirror(for 440nm) •Visual servo stage •HERZ Vibration Isolation Table TDI-1510LA 	Upcoming in July
47	Beckman	DNA Sequencer	GenomeLab GeXP Basic	2013		
48	Agilent	HeadSpaceSampler	7697A	2015	•7697A HSS	Upcoming in May
49	ABI	Genetic Analyzer	ABI PRISM 310	Refur		
50	CORONA ELECTRIC	Microplate Reader	MTP-310LAB	2014	Absorbance type Filter: 450nm, 630nm	
51	CTC Analytics	PAL SYSTEM	HTC PAL	2002		
52	Thermo	Personal Genome Machine	ION-PGM	2014	<ul style="list-style-type: none"> •Ion torrent PGM •Ion OneTouchES •Ion OneTouch 2 •APC SMART-UPS 1500 	
53	Teledyne tekmar	Purge&Trap	Atomx	2016	<ul style="list-style-type: none"> •Atomx P&T(with Autosampler: 80vials) •CCA-1112 Chiller 	
54	Teledyne tekmar	Purge&Trap	AQUA PT-5000J Plus	2005	<ul style="list-style-type: none"> •AQUA PT-5000J •AQUA auto70 	
55	GLSciences	Purge&Trap	AquaPT6000	2012	•AquaPT AS6100 Autosampler	
56	Roche	Real time PCR	LightCycler 480	2014	96well	Upcoming in July
57	TAKARA BIO	Real time PCR	TP800	2009	<ul style="list-style-type: none"> •PCR TP-800 •CT2Y Centrifuge(small size) 	
58	Illumina	Sequencing system	Hiseq1500	2013	※upgrade Hiseq1000 to 1500	
59	Shimadzu	TOC	TOC-VCPH	2004	<ul style="list-style-type: none"> •TOC-VCPH •ASI-V 	Upcoming in Jun
60	TAKARA BIO	Thermal Cycler	TP100	2008		
61	Millipore	Water Purification System	ICW-3000			
62	Millipore	Water Purification System	Milli-Q			

63	ELGA	Water Purification System	PureLAB	2016		
< MODULE >						
No.	Maker	Item	Model	Vintage	Configuration	Remark
1	Agilent	LC(Module)	FC/ALS Thermo		G1330B	
2	Agilent	LC(Module)	Thermostat		G1330B	
3	Agilent	LC(Module)	1200 InstantPilot		G4208A	
4	Agilent	LC(Module)	Controller		G1323B	
5	Agilent	GC(Module)	FPD, Inlet module		for 7890A GC	
6	Agilent	GC(Module)	255 NCD	2011	•G6640A Nitrogen Chemiluminescence	
7	Waters	LC(Module)	UVD 2487	2006		
8	Waters	LC(Module)	FLR 2475	2004		
9	Waters	LC(Module)	Column oven		Alliance series	
10	Senshu Scientific	LC(Module)	SSC-2300(Column oven)		※not used	
11	Cryo One	Liquid Nitrogen Tank	DLS-50B			
12	NICHIRYO	Digital Dispenser	MIGHTY PETTER I		Acetonitrile	
13	NICHIRYO	Digital Dispenser	MIGHTY PETTER I		Aceton	
14	NICHIRYO	Digital Dispenser	MIGHTY PETTER I		P-Xylene	
15	F-DGSi	Hydrogen Generator	Modular Alliance		H2	

Price is being negotiated (not secured/매입 검토중)

No.	Maker	Item	Model	Vintage	Configuration	Remark
1	Agilent	GC/MS/MS	7010-7890B	2015	<ul style="list-style-type: none"> •7890B GC •Triple Quad GC/MSD 7010(EI) •7693 ALS ※Option •7697A HSS ※Option 	
2	Shimadzu	GC/MS/MS	GCMS-TQ8050NX	2018	<ul style="list-style-type: none"> •GCMS-TQ8050NX(EI) •AOC-20S&i 	
3	Shimadzu	LC/MS/MS	LCMS-8050	2019	<ul style="list-style-type: none"> •LCMS-8050 •APCI-8050 •LC-30AD*2 •CTO-20AC •SIL-30AC •CBM-20A •DGU-20A5R •SPD-M30A 	
4	Agilent	LC/MS/MS	6460-1200		<ul style="list-style-type: none"> •G6460A •1200Series ※no N2 Generator 	
5	Agilent	LC/MS/MS	6460-1200		<ul style="list-style-type: none"> •G6460A •1200Series ※no N2 Generator 	
6	ABSciex	LC/Q-TOF/MS/MS	5600	2013	<ul style="list-style-type: none"> •Triple TOF 5600+ system package •CDS Calibration Delivery System •Shimadzu Prominence UFLC system 	
7	Agilent	ICP-MS	7500S			
8	Perkin	ICP-MS	ERAN DRC II	2010	<ul style="list-style-type: none"> •ERAN DRCII ICP-MS •Chiller •Sample Introduction system •Data Sysytem (OS: Windows-10) •Auto sampler S10 or 93+ (※Option) 	
9	Perkin	ICP-MS	ERAN DRC II	2008	<ul style="list-style-type: none"> •ERAN DRCII ICP-MS •Chiller •Sample Introduction system •Data Sysytem (OS: Windows-10) •Auto sampler S10 or 93+ (※Option) 	
10	Perkin	ICP-MS	ERAN DRC-e	2008	<ul style="list-style-type: none"> •ERAN DRC-e ICP-MS •Chiller •Sample Introduction system •Data Sysytem (OS: Windows-10) •Auto sampler S10 or 93+ (※Option) 	
11	Perkin	ICP-MS	ERAN DRC-e			
12	Perkin	ICP-OES	Optima 5300DV			
13	Perkin	ICP-OES	Optima 5300DV	2008	<ul style="list-style-type: none"> •Optima 5300DV ICP-OES •Chiller •Air compressor •Sample Introduction system •Data Sysytem (OS: Windows-10) •Auto sampler S10 or 93+ (※Option) •Electric Air dryer (※Option) 	

14	Perkin	ICP-OES	Optima 5100DV	2010	<ul style="list-style-type: none"> •Optima 5100DV ICP-OES •Chiller •Air compressor •Sample Introduction system •Data Sysytem (OS: Windows-10) •Auto sampler S10 or 93+ (※Option) •Electric Air dryer (※Option) 	
15	Perkin	ICP-OES	Optima 2100DV	2006	<ul style="list-style-type: none"> •Optima 2100DV ICP-OES •Chiller •Air compressor •Sample Introduction system •Data Sysytem (OS: Windows-10) •Auto sampler S10 or 93+ (※Option) •Electric Air dryer (※Option) 	
16	Agilent	ICP-OES	Agilent5100	2014	<ul style="list-style-type: none"> •5100 ICP-OES •Autosampler •Chiller 	
17	Agilent	ICP-OES	Agilent720			
18	Varian	ICP-OES	Varian720-ES			
19	Agilent	GC/MS	8890-5977B	2020	<ul style="list-style-type: none"> •8890 GC •5977B MSD ※not used 	
20	JEOL	GC/MS	JMS-Q1500GC/7890B	2017	<ul style="list-style-type: none"> •JMS-Q1500GC •7890B GC •7650A ALS(50Vial) 	
21	JEOL	GC/MS	JMS-Q1500GC/7890B	2017	<ul style="list-style-type: none"> •JMS-Q1500GC •7890B GC •7650A ALS(50Vial) 	
22	Shimadzu	HPLC	Prominence		<ul style="list-style-type: none"> •pump LC-20AT*2 •Reservoir Selection Valve FCV-11AL •Degasser DGU-20A3R •Auto Sampler SIL-20A •Column oven CT0-20AC •UV-VIS Detector SPD-20A •System Controller CBM-20A •Tray 	
23	Hitachi	AAS	Z-3700	2015	※Graphite furnace type	
24	Shimadzu	XRF	EDX-7000	2016	<ul style="list-style-type: none"> •Energy dispersive Type(ED-XRF) •RoHS&halogen screening •Vacuum option 	
25	Shimadzu	Micro Focus X-Ray CT System	inspeXio SMX-100CT	2013	•VGMAX material pack	
26	Illumina	Sequencing system	MiniSeq		LS-J-001	
27	Illumina	Sequencing system	Miseq	2014	TypeC MS-J-001-5	

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