

2025 UCRF Self-user Equipment Training Program

UCRF equipment training for self-user is scheduled weekly.




*For training not listed, please refer to the equipment information on the website and contact the staff.

You can get detailed information on UCRF website(<http://ucrf.unist.ac.kr>).  





UCRF


Experimental and Analysis Support Team

GROUP	MON	TUE	WED	THU	FRI
Electron Microscopic Analysis	[101] TEM Basic(JEM-2100)	[103] TEM Adv.(JEM-2100F)			
	[102] TEM Basic(Talos F200X)	[104] TEM Adv.(JEM-ARM300F)			
	[106] FIB(Quanta)	[105] TEM Adv.(Spectra 300)			
	[107] FIB(Helios)	[108] SEM(SU7000/SU8220)			
		[109] SEM EDS			
Spectroscopic Analysis		[110] NMR	[112] FT-IR	[111] ESR	[117] Fluorometer/ Spectrofluorometer
				[113] UV-Vis-NIR	[118] Zeta-sizer
				[114] UV-Vis Microspectrometer	
				[115] Confocal Raman-1,2	
				[116] Confocal Raman-3	
X-ray Analysis		[119] NXRD(Basic)	[121] MPXRD(Advanced)		
		[120] HPXRD(Basic)	[122] HPXRD-A(Advanced)		
			[123] HPXRD-M(Advanced)		
			[124] HPRXRD(Advanced)		
					
Surface Analysis	[125] AFM Dimension	[126] AFM Multimode		[127] XPS/UPS	
Thermal & Physical Analysis		[128] TGA	[133] Seebeck		[134] Dilatometry
		[129] SDT	[135] BET		
		[130] DSC			
		[131] DMA			
		[132] Rheometer			
Mass Analysis	[136] MALDI-TOF				

Fabrication and Manufacturing Support Team

GROUP	MON	TUE	WED	THU	FRI
Safety Training (Mandatory)	[201] Safety Training (Only 1st week)				[202] Safety Training Qualification Test (Only 1st week)
Photo	[203] Photolithography			[204] E-beam Lithography(Att.)	
				[205] Maskless Laser Lithography	
Etching					[206] Dry Etching(ICP, RIE)
					[207] Wet Station
					[208] PR Strip
Thinfilim		[209] Sputter(DC, RF, HSC)			
		[210] E-Beam Evaporator#2			
		[211] PE-CVD			
		[212] LP-CVD			
		[213] Thermal ALD			
		[214] Furnace			
Measurement	[215] Ellipsometer				[216] Surface Profiler
Packaging	[217] Dicing Saw				

Biological Research Support Team

GROUP	MON	TUE	WED	THU	FRI
Experimental Techniques	[301] Handling & Blood Collection	[302] Handling & Injection	[304] Perfusion		
In Vivo Equipment	[305] Histology: Tissue Processor	[303] Tumor Xenograft Model	[307] Histology: Microtome	[309] Histology: H&E Stain	
		[306] Histology: Embedding	[308] Histology: Cryostat	[312] In Vivo Optical Imaging System	
		[310] Behavior: Video-tracking			
		[311] Behavior: Activity/Sense			
Laser Scanning Confocal Microscope	[313] LSM980	[314] FV1000	[315] LSM780NLO Multi Photon		[316] LSM780
Super Resolution Microscope	[318] SIM	[317] OLS3100	[319] PLAM		[320] Airscan
Research Microscope	[321] Inverted Microscope	[323] THUNDER		[324] Virtual Microscope	
	[322] Axiozoom Stereo Microscope			[325] Lightsheet	
				[326] Laser Capture Microdissection	
Analysis SW		[327] ZEN	[328] IMARIS		[329] MetaMorph

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UCRF equipment training for self-user is scheduled weekly.

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Experimental and Analysis Support Team					
GROUP	MON	TUE	WED	THU	FRI
Electron Microscopic Analysis	[101] TEM Basic(JEM-2100) [102] TEM Basic(Teleo P200X) [103] TEM Adv.(Spectra 300) [104] SEM/EDS/EDS/EDS/EDS	[105] TEM Adv.(JEM-2100F) [106] TEM Adv.(JEM-ARM300F) [107] SEM EDS			
Spectroscopic Analysis		[108] NMR	[109] FT-IR	[110] ESR [111] UV-Vis-NIR [112] IR-VIS [113] Microspectrometer [114] Confocal Raman-3 [115] Confocal Raman-3	[116] Photometer/Spectrophotometer Zeta-sizer
X-ray Analysis		[117] XRD(Basic) [118] XRD(Advanced)	[119] XRD(Basic) [120] XRD(Advanced) [121] HPXRD-M(Advanced) [122] HPXRD(Advanced)		
Surface Analysis	[123] AFM Dimension	[124] AFM Multimode		[125] XPS/UPS	[126] DLS
Thermal & Physical Analysis		[127] TGA [128] SDT [129] DSC [130] DTA [131] Rheometer	[132] Seebach [133] BET		[134] Dilatometry
Mass Analysis	[135] MALDI-TOF				
Fabrication and Manufacturing Support Team					
GROUP	MON	TUE	WED	THU	FRI
Safety Training (Mandatory)	[201] Safety Training (Only 1st week)			[202] Safety Training (Only 1st week)	[203] Safety Training (Only 1st week)
Photo	[204] Photolithography			[205] E-beam Lithography/ALD Maskless Laser Lithography	[206] Dry Etching(ICP, RIE) [207] Wet Station [208] PM Strip
Etching		[209] Sputter(DC, RF, HSG) [210] E-Beam Evaporator#2 [211] PE-CVD [212] LP-CVD [213] Thermal ALD [214] Furnace			
Thin Film					
Measurement	[215] Ellipsometer [216] Dicing Saw				[217] Surface Profiler
Biological Research Support Team					
GROUP	MON	TUE	WED	THU	FRI
Experimental Techniques	[301] Handling & Blood Collection [302] Tumor Xenograft Model [303] Histology: Embedding [304] Behavior: Video-tracking [305] Behavior: Activity/Sensor [306] FV1000 [307] OLS3000	[308] Handling & Injection [309] Tumor Xenograft Model [310] Histology: Embedding [311] Behavior: Video-tracking [312] Behavior: Activity/Sensor [313] FV1000 [314] OLS3000	[315] Perfusion [316] Histology: Microtome [317] Histology: Crystal [318] In Vivo Optical Imaging System [319] LSM780/LSM780 Multi Photon [320] PLAM	[321] Histology: H&E Stain [322] In Vivo Optical Imaging System [323] LSM780 [324] Aircan	[325] LSM780 [326] Aircan
In Vivo Equipment					
Laser Scanning Confocal Microscope	[327] LSM980				
Super Resolution Microscope	[328] SIM				
Research Microscope	[329] Inverted Microscope [330] Arizonam Stereo Microscope	[331] THUNDER		[332] Virtual Microscope [333] Lightsheet [334] Laser Capture Microdissection	[335] MetaMorph
Analysis SW		[336] ZEN	[337] INAHIS		

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pp.7-9 : Fabrication and Manufacturing Support Team

pp.10-14 : Biological Research Support Team

p.15 : Contact



You can get detailed information on UCRF website(<http://ucrf.unist.ac.kr>)

Experimental and Analysis Support Team					
GROUP	MON	TUE	WED	THU	FRI
Electron Microscopic Analysis	[101] TEM Basic(JEM-2100)	[103] TEM Adv.(JEM-2100F)			
	[102] TEM Basic(Talos F200X)	[104] TEM Adv.(JEM-ARM300F)			
	[106] FIB(Quanta)	[105] TEM Adv.(Spectra 300)			
	[107] FIB(Helios)	[108] SEM(SU7000/SU8220)			
		[109] SEM EDS			
Spectroscopic Analysis		[110] NMR	[112] FT-IR	[111] ESR	[117] Fluorometer/ Spectrofluorometer
				[113] UV-Vis-NIR	[118] Zeta-sizer
				[114] UV-Vis Microspectrometer	
				[115] Confocal Raman-1,2	
				[116] Confocal Raman-3	
X-ray Analysis		[119] NXRD(Basic)	[121] MPXRD(Advanced)		
		[120] HPXRD(Basic)	[122] HPXRD-A(Advanced)		
			[123] HPXRD-M(Advanced)		
			[124] HPRXRD(Advanced)		
Surface Analysis	[125] AFM Dimension	[126] AFM Multimode		[127] XPS/UPS	
Thermal & Physical Analysis		[128] TGA	[133] Seebeck		[134] Dilatometry
		[129] SDT	[135] BET		
		[130] DSC			
		[131] DMA			
		[132] Rheometer			
Mass Analysis	[136] MALDI-TOF				

* For more details, please refer to the next page.

(p.2) Electron Microscopic Analysis [101] – [105]

(p.3) Electron Microscopic Analysis [106] – [109]

(p.4) Spectroscopic Analysis [110] – [118]

(p.5) X-ray Analysis [119] – [124] , Surface Analysis [125] – [127]

(p.6) Thermal & Physical Analysis [128] – [135] , Mass Analysis [136]


No.	Equipment	Title	Day	Time	Contents	Notes	Instructor
101	TEM Basic (JEM-2100)	3:1 Training	Mon	10:00 – 11:30	▪ Operation	▪ For new users	Lim, Jeong Hwan
		1:1 Practice (1hr)	Mon – Wed	10:00 – 17:00	▪ Individual practice ▪ Image measurement		
102	TEM Basic (Talos F200X)	3:1 Training	Mon	10:00 – 11:30	▪ Operation	▪ For new users	Park, Ji Hyun
		1:1 Practice (1hr)	Mon – Wed	10:00 – 17:00	▪ Individual practice ▪ Image measurement		
	TEM Basic (Talos F200X) EDS	1:1 Practice (1hr)	Mon – Wed	10:00 – 17:00	▪ Individual practice ▪ EDS measurement	▪ For Talos F200X users	Park, Ji Hyun
103	TEM Advanced (JEM-2100F)	2:1 Training	Tue	10:30 – 11:30	▪ Operation	▪ For JEM-2100 users ▪ 2:1 Training classes of JEM-2100F and JEM-ARM300F are conducted alternately every other Tuesday.	Lim, Jeong Hwan
		1:1 Practice (1hr)	Tue – Fri	10:00 – 17:00	▪ Individual practice ▪ Image measurement		
104	TEM Advanced (JEM-ARM300F)	2:1 Training	Tue	10:30 – 11:30	▪ Operation	▪ For JEM-2100F users ▪ 2:1 Training classes of JEM-2100F and JEM-ARM300F are conducted alternately every other Tuesday.	Lim, Jeong Hwan
		1:1 Practice (1hr)	Tue – Fri	10:00 – 17:00	▪ Individual practice ▪ Image measurement		
105	TEM Advanced (Spectra 300)	2:1 Training	Tue	10:00 – 11:30	▪ Operation	▪ For Talos F200X users	Park, Ji Hyun
		1:1 Practice (1hr)	Tue – Fri	10:00 – 17:00	▪ Individual practice ▪ Image measurement		

Lim, Jeong Hwan	
	
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No.	Equipment	Title	Day	Time	Contents	Notes	Instructor
106	FIB (Quanta FIB)	2:1 Training	Mon	09:30 – 11:30	<ul style="list-style-type: none"> Theory education Operation 	<ul style="list-style-type: none"> For new users 	Lee, Sun Yi
		1:1 Practice	Mon – Tue	14:00 – 15:00 15:00 – 16:00	<ul style="list-style-type: none"> Individual practice(Cross section) 		
		1:1 Practice	Wed	09:30 – 12:00 14:00 – 17:00	<ul style="list-style-type: none"> Individual practice(TEM sampling) 		
107	FIB (Helios FIB)	2:1 Training	Mon	09:30 – 12:00	<ul style="list-style-type: none"> Theory education Operation 	<ul style="list-style-type: none"> For Quanta FIB users 	Lee, Sun Yi
		1:1 Practice	Mon	13:30 – 14:30 14:30 – 15:30 16:00 – 18:00	<ul style="list-style-type: none"> Individual practice(Cross section) Individual practice(TEM sampling) 		
		1:1 Practice	Tue	09:30 – 10:30 10:30 – 11:30 14:00 – 17:00	<ul style="list-style-type: none"> Individual practice(Cross section) Individual practice(TEM sampling) 		
		1:1 Practice	Wed	09:30 – 12:00	<ul style="list-style-type: none"> Individual practice(TEM sampling) 		
108	SEM (SU7000 /SU8220)	3:1 Training	Tue	10:30 – 11:30	<ul style="list-style-type: none"> Showing How to operate the Equipment 	<ul style="list-style-type: none"> For new users 	Lee, Jong Hoon
		1:1 Practice (1hr)	Tue	13:30 – 16:30	<ul style="list-style-type: none"> Individual practice Image measurement 		
109	SEM EDS	1:1 Practice (1hr)	Tue	13:30 – 16:30	<ul style="list-style-type: none"> Individual practice EDS measurement 	<ul style="list-style-type: none"> For SEM users 	

Lee, Sun Yi



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Lee, Jong Hoon



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Spectroscopic Analysis [110] – [118]

Instructor Information

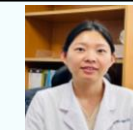
No.	Equipment	Title	Day	Time	Contents	Notes	Instructor
110	NMR	Theory	Tue	10:30 – 11:30	▪ Theory education	▪ For new users ▪ Solution NMR	Han, Sun Phil
		3:1 Training	Tue	13:30 – 14:30	▪ Operation		
		3:1 Practice	Wed	13:30 – 14:30	▪ Parameter calibration ▪ NMR processing		
111	ESR	3:1 Training	Thu	15:00 – 16:00	▪ Theory education ▪ Operation	▪ For NMR users	
112	FT-IR	3:1 Training	Wed	09:30 – 10:30	▪ Theory education ▪ Operation	▪ For new users	Cho, Mi Sun
113	UV-Vis-NIR (%T, %R)	3:1 Training	Thu	10:30 – 11:30	▪ Theory education ▪ Operation		
114	UV-Vis Microspectrometer	3:1 Training	Thu	09:30 – 10:30	▪ Theory education ▪ Operation		
115	Confocal Raman-1, 2	3:1 Training	Thu	09:30 – 11:30	▪ Theory education ▪ Operation		
116	Confocal Raman-3	3:1 Training	Thu	13:30 – 14:30	▪ Theory education ▪ Operation		
117	Fluorometer / Spectrofluorometer	3:1 Training	Fri	09:30 – 11:30	▪ Theory education ▪ Operation	▪ For new users	Kang, Yeong Bi
118	Zeta-sizer	3:1 Training	Fri	13:30 – 14:30	▪ Theory education ▪ Operation	▪ For new users	

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Kang, Yeong Bi



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X-ray Analysis [119] – [124] , Surface Analysis [125] – [127]

Instructor Information

No.	Equipment	Title	Day	Time	Contents	Notes	Instructor
119	NXRD (Basic)	1:1 Training	Tue	10:00 – 17:00	<ul style="list-style-type: none"> Operation Individual Practice Powder XRD Program 	<ul style="list-style-type: none"> For new users with powder 	Lee, Gyeong Ae
120	HPXRD (Basic)	1:1 Training	Tue	10:00 – 17:00			
121	MPXRD (Advanced)	1:1 Training	Wed	10:00 – 17:00			
122	HPRXRD (Advanced)	1:1 Training	Wed	10:00 – 17:00	<ul style="list-style-type: none"> Operation Individual Practice Powder XRD Program 	<ul style="list-style-type: none"> For new users with powder 	Park, Ji Hye
123	HRXRD-A (Advanced)	1:1 Training	Wed	10:00 – 17:00	<ul style="list-style-type: none"> Operation Individual Practice 	<ul style="list-style-type: none"> For new users with film 	Lee, Gyeong Ae
124	HRXRD-M (Advanced)	1:1 Training	Wed	10:00 – 17:00			

Lee, Gyeong Ae



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Park, Ji Hye



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No.	Equipment	Title	Day	Time	Contents	Notes	Instructor
125	AFM Dimension	3:1 Training	Mon	14:00 – 16:00	<ul style="list-style-type: none"> Theory education Operation 	<ul style="list-style-type: none"> For new users Individual practice after training 	Lim, Dong Ju
126	AFM Multimode	3:1 Training	Tue	14:00 – 16:00	<ul style="list-style-type: none"> Theory education Operation 	<ul style="list-style-type: none"> For new users Individual practice after training 	Lim, Dong Ju
127	XPS/UPS	3:1 Training	Thu	13:00 – 15:00	<ul style="list-style-type: none"> Theory education Operation 	<ul style="list-style-type: none"> For new users Individual practice after training 	Lim, Dong Ju

Lim, Dong Ju



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Thermal & Physical Analysis [128] – [135] , Mass Analysis [136]

Instructor Information

No.	Equipment	Title	Day	Time	Contents	Notes	Instructor
128	TGA	2:1 Training	Tue	09:30 – 10:30	<ul style="list-style-type: none"> Theory education Operation 	<ul style="list-style-type: none"> For new users Individual practice after training 	Kang, Yeong Bi
129	SDT	2:1 Training	Tue	11:00 – 12:00	<ul style="list-style-type: none"> Theory education Operation 	<ul style="list-style-type: none"> For new users Individual practice after training 	Kang, Yeong Bi
130	DSC	2:1 Training	Tue	13:00 – 14:00	<ul style="list-style-type: none"> Theory education Operation 	<ul style="list-style-type: none"> For new users Individual practice after training 	Kang, Yeong Bi
131	DMA	2:1 Training	Tue	14:30 – 15:30	<ul style="list-style-type: none"> Theory education Operation 	<ul style="list-style-type: none"> For new users Individual practice after training 	Kang, Yeong Bi
132	Rheometer	2:1 Training	Tue	16:00 – 17:00	<ul style="list-style-type: none"> Theory education Operation 	<ul style="list-style-type: none"> For new users Individual practice after training 	Kang, Yeong Bi
133	Seebeck	3:1 Training	Wed	10:30 – 12:00	<ul style="list-style-type: none"> Theory education Operation 	<ul style="list-style-type: none"> For new users 	Han, Eun Jung
134	Dilatometry	3:1 Training	Fri	10:00 – 12:00 13:00 – 15:00	<ul style="list-style-type: none"> Theory education Operation 	<ul style="list-style-type: none"> For new users 	Han, Eun Jung
135	BET	2:1 Training	Wed	09:30 - 12:00	<ul style="list-style-type: none"> Theory education Operation 	<ul style="list-style-type: none"> For new users Individual practice after training 	Bea, Jong Hoon

Kang, Yeong Bi



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Bea, Jong Hoon





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Seo, Hyun Kyeong



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No.	Equipment	Title	Day	Time	Contents	Notes	Instructor
136	MALDI-TOF	3:1 Training	Mon	10:00 – 11:00	<ul style="list-style-type: none"> Theory education Operation 	<ul style="list-style-type: none"> For new users 	Seo, Hyun Kyeong
				14:00 – 15:00			

Fabrication and Manufacturing Support Team					
GROUP	MON	TUE	WED	THU	FRI
Safety Training (Mandatory)	[201] Safety Training (Only 1st week)				[202] Safety Training Qualification Test (Only 1st week)
Photo	[203] Photolithography			[204] E-beam Lithography (Att.)	
Etching				[205] Maskless Laser Lithography	
Thinfilm		[209] Sputter (DC, RF, HSC) [210] E-Beam Evaporator #2 [211] PE-CVD [212] LP-CVD [213] Thermal ALD [214] Furnace			[206] Dry Etching (ICP, RIE) [207] Wet Station [208] PR Strip
Measurement	[215] Ellipsometer				[216] Surface Profiler
Packaging	[217] Dicing Saw				

* For more details, please refer to the next page.

(p.8) Safety Training [201] – [202], Photo [203] – [205], Etching [206] – [208]

(p.9) Thinfilm [209] – [214], Measurement [215] – [216], Packaging [217]

Safety Training [201] – [202] , Photo [203] – [205] , Etching [206] – [208]

Instructor Information

No.	Equipment	Title	Day	Time	Contents	Notes	Instructor
201	Safety Training (Mandatory)	Theory	Mon (Only 1st week)	10:00 – 12:00	▪ Safety Training for Accessing the Cleanroom	▪ For new users	Hwang, Eun Jeong
202	Safety Training Qualification Test (Mandatory)	Test	Fri (Only 1st week)	14:00 – 15:00	▪ Safety Training Qualification Test	▪ For new users	Hwang, Eun Jeong

Hwang, Eun Jeong



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No.	Equipment	Title	Day	Time	Contents	Notes	Instructor
203	Photo Lithography (Mask aligner)	Theory & Practice	Mon	14:00 – 15:00	▪ Theory education ▪ Showing how to operate the equipment	▪ For new users	Hwang, Eun Jeong
204	E-beam Lithography (Attached)	Theory & Practice	Thu	10:00 – 12:00	▪ Theory education ▪ Showing how to operate the equipment	▪ For new users	Lee, Seon Jin
205	Maskless Laser Lithography	Theory & Practice	Thu	14:00 – 15:00	▪ Theory education ▪ Operation	▪ For new users	Hwang, Eun Jeong

Lee, Seon Jin



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Lee, Song Hee



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No.	Equipment	Title	Day	Time	Contents	Notes	Instructor
206	Dry Etching (ICP, RIE)	3:1 Training	Fri	10:00 – 11:00	▪ Showing How to operate the Equipment	▪ For new users	Lee, Song Hee
207	Wet Station	3:1 Training	Fri	11:00 – 12:00	▪ Showing How to operate the Equipment	▪ For new users	Lee, Song Hee
208	PR Strip	3:1 Training	Fri	16:00 – 17:00	▪ Showing how to operate the equipment	▪ For new users	Kim, Min Jae

Kim, Min Jae



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Thinfilm [209] – [214] , Measurement [215] – [216] , Packaging [217]

Instructor Information

No.	Equipment	Title	Day	Time	Contents	Notes	Instructor
209	Sputter (DC, RF, HSC)	3:1 Training	Tue	10:00 – 11:30	▪ Showing how to operate the equipment	▪ For new users	Kim, Hyung Il
210	E-Beam Evaporator#2	3:1 Training	Tue	10:00 – 11:30	▪ Showing How to operate the Equipment	▪ For new users	Hwang, Eun Jeong
211	PE-CVD	3:1 Training	Tue	13:00 – 14:00	▪ Showing How to operate the Equipment	▪ For new users	Kim, Bo Seong
212	LP-CVD	3:1 Training	Tue	14:00 – 15:00	▪ Showing how to operate the equipment	▪ For new users	Kang, Hae Ra
213	Thermal ALD	3:1 Training	Tue	15:00 – 16:00	▪ Showing How to operate the Equipment	▪ For new users	Kim, Bo Seong
214	Furnace	3:1 Training	Tue	16:00 – 17:00	▪ Showing how to operate the equipment	▪ For new users	Kang, Hae Ra

Kim, Hyung Il



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Kim, Bo Seong



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Kang, Hae Ra



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Lee, Seon Jin




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No.	Equipment	Title	Day	Time	Contents	Notes	Instructor
215	Ellipsometer	3:1 Training	Mon	17:00 – 18:00	▪ Showing How to operate the Equipment	▪ For new users	Kim, Bo Seong
216	Surface Profiler	3:1 Training	Fri	15:00 – 16:00	▪ Showing how to operate the equipment ▪ Individual practice	▪ For new users	Lee, Seon Jin

No.	Equipment	Title	Day	Time	Contents	Notes	Instructor
217	Dicing Saw	3:1 Training	Mon	16:00 – 17:00	▪ Showing How to operate the Equipment	▪ For new users	Lee, Seon Jin

Biological Research Support Team					
GROUP	MON	TUE	WED	THU	FRI
Experimental Techniques	[301] Handling & Blood Collection	[302] Handling & Injection	[304] Perfusion		
		[303] Tumor Xenograft Model			
In Vivo Equipment	[305] Histology: Tissue Processor	[306] Histology: Embedding	[307] Histology: Microtome	[309] Histology: H&E Stain	
		[310] Behavior: Video-tracking	[308] Histology: Cryostat	[312] In Vivo Optical Imaging System	
		[311] Behavior: Activity/Sense			
Laser Scanning Confocal Microscope	[313] LSM980	[314] FV1000	[315] LSM780NLO Multi Photon		[316] LSM780
		[317] OLS3100			
Super Resolution Microscope	[318] SIM		[319] PLAM		[320] Airscan
Research Microscope	[321] Inverted Microscope	[323] THUNDER		[324] Virtual Microscope	
	[322] Axiozoom Stereo Microscope			[325] Lightsheet	
				[326] Laser Capture Microdissection	
Analysis SW		[327] ZEN	[328] IMARIS		[329] MetaMorph

* For more details, please refer to the next page.

(p.11) Experimental Techniques [301] – [304] , In Vivo Equipment [305] – [312]

(p.12) Laser Scanning Confocal Microscope [313] – [317] , Super Resolution Microscope [318] – [320]

(p.13) Research Microscope [321] – [326] , Analysis Software [327] – [329]

(p.14) 'In Vivo Research Center' Access Training Schedule

Experimental Techniques [301] – [304] , In Vivo Equipment [305] – [312]

Instructor Information

No.	Equipment	Title	Day	Time	Contents	Notes	Instructor
301	Handling, Blood Collection	Theory & Practice	Mon	13:30 – 15:30	<ul style="list-style-type: none"> Theory education Operation 	<ul style="list-style-type: none"> For new users 	Park, Kyung Su
302	Handling, Injection	Theory & Practice	Tue	13:30 – 15:30	<ul style="list-style-type: none"> Theory education Operation 	<ul style="list-style-type: none"> For new users 	Park, Kyung Su
303	Tumor Xenograft model	Theory & Practice	Tue	15:30 – 16:30	<ul style="list-style-type: none"> Theory education Operation 	<ul style="list-style-type: none"> For new users 	Park, Soo Ah
304	Perfusion	Theory & Practice	Wed	13:30 – 15:00	<ul style="list-style-type: none"> Theory education Operation 	<ul style="list-style-type: none"> For new users 	Park, Soo Ah

Park, Kyung Su



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No.	Equipment	Title	Day	Time	Contents	Notes	Instructor
305	Histology: Tissue Processor	Theory & Practice	Mon	16:00 – 18:00	<ul style="list-style-type: none"> Theory education Operation 	<ul style="list-style-type: none"> For paraffin block 	Choi, Yun Ji
306	Histology: Embedding	Theory & Practice	Tue	10:00 – 12:00	<ul style="list-style-type: none"> Theory education Operation 	<ul style="list-style-type: none"> For paraffin block 	Choi, Yun Ji
307	Histology: Microtome	Theory & Practice	Wed	10:00 – 12:00	<ul style="list-style-type: none"> Theory education Operation 	<ul style="list-style-type: none"> For paraffin slide 	Choi, Yun Ji
308	Histology: Cryostat	Theory & Practice	Wed	14:00 – 16:00	<ul style="list-style-type: none"> Theory education Operation 	<ul style="list-style-type: none"> For frozen block and slide 	Choi, Yun Ji
309	Histology: H&E stain (Paraffin/Frozen)	Theory & Practice	Thu	16:00 – 18:00	<ul style="list-style-type: none"> Theory education 	<ul style="list-style-type: none"> For routine staining 	Choi, Yun Ji
310	Behavior: Video-tracking	1:4 Theory	Tue	14:00-15:00	<ul style="list-style-type: none"> Theory education 	<ul style="list-style-type: none"> For new users 	Hwang, Soo Hyun
311	Behavior: Activity/sense	1:4 Theory	Tue	15:00-16:00	<ul style="list-style-type: none"> Theory education 	<ul style="list-style-type: none"> For new users 	Hwang, Soo Hyun
312	In Vivo Optical Imaging System	Theory & Practice	Thu	13:30 – 15:30	<ul style="list-style-type: none"> Theory education Operation 	<ul style="list-style-type: none"> For new users 	Park, Soo Ah

Choi, Yun Ji



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Laser Scanning Confocal Microscope [313] – [317] , Super Resolution Microscope [318] – [320]

Instructor Information

No.	Equipment	Title	Day	Time	Contents	Notes	Instructor
313	LSM980	3:1 Training	Mon	13:00 – 15:00	<ul style="list-style-type: none"> ▪ Theory education ▪ Operation ▪ Individual practice ▪ Image measurement 	▪ For new users	Hur, Jinhoe
314	FV1000	3:1 Training	Tue	13:00 – 15:00	<ul style="list-style-type: none"> ▪ Theory education ▪ Operation ▪ Individual practice ▪ Image measurement 	▪ For new users	Hur, Jinhoe
315	LSM780NLO Multi Photon	3:1 Training	Wed	10:00 – 12:00	<ul style="list-style-type: none"> ▪ Theory education ▪ Operation ▪ Individual practice ▪ Image measurement 	▪ For new users	Joung, Hong Chan
316	LSM780	3:1 Training	Fri	16:00 – 18:00	<ul style="list-style-type: none"> ▪ Theory education ▪ Operation ▪ Individual practice ▪ Image measurement 	▪ For new users	Hur, Jinhoe
317	OLS3100	3:1 Training	Tue	15:00 – 16:00	<ul style="list-style-type: none"> ▪ Theory education ▪ Operation ▪ Individual practice ▪ Image measurement 	▪ For new users	Joung, Hong Chan

Hur, Jinhoe



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No.	Equipment	Title	Day	Time	Contents	Notes	Instructor
318	SIM Super Resolution	3:1 Training	Mon	10:00 – 12:00	<ul style="list-style-type: none"> ▪ Theory education ▪ Operation ▪ Individual practice ▪ Image measurement 	▪ For new users	Joung, Hong Chan
319	PLAM Super Resolution	3:1 Training	Wed	13:00 – 15:00	<ul style="list-style-type: none"> ▪ Theory education ▪ Operation ▪ Individual practice ▪ Image measurement 	▪ For new users	Joung, Hong Chan
320	Airscan Super Resolution	3:1 Training	Fri	15:00 – 16:00	<ul style="list-style-type: none"> ▪ Theory education ▪ Operation ▪ Individual practice ▪ Image measurement 	▪ For new users	Hur, Jinhoe

Research Microscope [321] – [326] , Analysis Software [327] – [329]

Instructor Information

No.	Equipment	Title	Day	Time	Contents	Notes	Instructor
321	Inverted Microscope	3:1 Training	Mon	15:00 – 16:00	<ul style="list-style-type: none"> ▪ Theory education ▪ Operation ▪ Individual practice ▪ Image measurement 	▪ For new users	Joung, Hong Chan
322	Axiozoom Stereo Microscope	3:1 Training	Mon	16:00 – 18:00	<ul style="list-style-type: none"> ▪ Theory education ▪ Operation ▪ Individual practice ▪ Image measurement 	▪ For new users	Hur, Jinhoe
323	THUNDER	3:1 Training	Tue	10:00 – 12:00	<ul style="list-style-type: none"> ▪ Theory education ▪ Operation ▪ Individual practice ▪ Image measurement 	▪ For new users	Hur, Jinhoe
324	Virtual Microscope	3:1 Training	Thu	10:00 – 12:00	<ul style="list-style-type: none"> ▪ Theory education ▪ Operation ▪ Individual practice ▪ Image measurement 	▪ For new users	Joung, Hong Chan
325	Lightsheet	3:1 Training	Thu	13:00 – 16:00	<ul style="list-style-type: none"> ▪ Theory education ▪ Operation ▪ Individual practice ▪ Image measurement 	▪ For new users	Joung, Hong Chan
326	Laser Capture Microdissection	3:1 Training	Thu	16:00 – 18:00	<ul style="list-style-type: none"> ▪ Theory education ▪ Operation ▪ Individual practice ▪ Image measurement 	▪ For new users	Hur, Jinhoe

Joung, Hong Chan



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No.	Equipment	Title	Day	Time	Contents	Notes	Instructor
327	ZEN	3:1 Training	Tue	16:00 – 18:00	<ul style="list-style-type: none"> ▪ Operation ▪ Individual practice ▪ Image measurement 	▪ For new users	Joung, Hong Chan
328	IMARIS	3:1 Training	Wed	16:00 – 18:00	<ul style="list-style-type: none"> ▪ Operation ▪ Individual practice ▪ Image measurement 	▪ For new users	Joung, Hong Chan
329	MetaMorph	3:1 Training	Fri	13:00 – 15:00	<ul style="list-style-type: none"> ▪ Operation ▪ Individual practice ▪ Image measurement 	▪ For new users	Hur, Jinhoe

‘In Vivo Research Center’ Access Training Schedule

- ✓ **Who should apply?** a person who needs to obtain a new access permit
- ✓ **To enter IVRC’s animal zone, you should complete** ㉠online, ㉡on-site and ㉢safety training.
- ✓ **Animal zone manager:** Lee Yoonjin(Small animal zone, Isolation zone), Kim Hyejin(Return animal zone, MP zone)

2025 Session	Application Period (2 weeks)	Enrollment by Admin	Online Training Period (1 week)	On-site Training Schedule Notification By Admin	On-site / Safety Training(1 day)
1 st	2024.12.16.-12.26.	2024.12.27.	2024.12.30.-2025.1.3.	2025.1.6.	2024.1.7.-1.8.
2 nd	2025.1.20.-1.30.	2025.1.31.	2025.2.3.-2.7.	2025.2.10.	2025.2.11.-2.12.
3 rd	2025.2.17.-2.27.	2025.2.28.	2025.3.3.-3.7.	2025.3.10.	2025.3.11.-3.12.
4 th	2025.3.17.-3.27.	2025.3.28.	2025.3.31.-4.4.	2025.4.7.	2025.4.8.-4.9.
5 th	2025.4.21.-5.1.	2025.5.2.	2025.5.5.-5.9.	2025.5.12.	2025.5.13.-5.14.
6 th	2025.5.19.-5.29.	2025.5.30.	2025.6.2.-6.6.	2025.6.9.	2025.6.10.-6.11.
7 th	2025.6.16.-6.26.	2025.6.27.	2025.6.30.-7.4.	2025.7.7.	2025.7.8.-7.9.
8 th	2025.7.21.-7.31.	2025.8.1.	2025.8.4.-8.8.	2025.8.11.	2025.8.12.-8.13.
9 th	2025.8.18.-8.28.	2025.8.29.	2025.9.1.-9.5.	2025.9.8.	2025.9.9.-9.10.
10 th	2025.9.22.-10.1.	2025.10.2.	2025.10.2.-10.12.	2025.10.13.	2025.10.14.-10.15.
11 th	2025.10.20.-10.30.	2025.10.31.	2025.11.3.-11.7.	2025.11.10.	2025.11.11.-11.12.
12 th	2025.11.17.-11.27.	2025.11.28.	2025.12.1.-12.5.	2025.12.8.	2025.12.9.-12.10.

You can apply on UCRF website.

Online training is conducted through videos on Blackboard system, and only those who have been granted an account by the administrator can access the system.

After coordinating the on-site training schedule, the administrator will notify you of the date.

UCRF self-user training is open for all to attend.
Please feel free to contact us.

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**CENTRAL RESEARCH
FACILITIES**

