

## 10월22일 (목)

기조강연			그랜드볼룸I
14:00~14:40	PL I	한국 연안 바다숲 조성사업의 현실적 문제와 개선방안 김남길	좌장 : 최창근
		<b>B r e a k T i m e</b>	
<b>특별세션</b>			
<b>SC-1. 특별세션</b>		변신하는 조류 "Nostoc"의 이해	그랜드볼룸I
15:00~15:20	SC I-01	Background of Blue-Green Algae, <i>Nostoc commune</i> <b>Jae-Shin Kang</b> , Eun Hee Bae, Soonok Kim, Won-Jae Chi, In-Tae Cha	좌장 : 이병율
15:20~15:40	SC I-02	Algal diversity among macrophytes of <i>Nostoc commune</i> (Nostocaceae, Nostocales) <b>Eun Hee Bae</b> , Jae-Shin Kang, Soonok Kim, Won-Jae Chi, In-Tae Cha	
15:40~16:00	SC I-03	Fungal community analysis associated with <i>Nostoc commune</i> colony Mi-jin Jeon, Suyeon Kim, Eun Hee Bae, Won-Je Chi, Jae-Shin Kang, <b>Soonok Kim</b>	
16:00~16:20	SC I-04	Evaluation of antioxidant and anti-inflammatory activities of <i>Nostoc commune</i> extract from Daejeon National Cemetery <b>Won-Jae Chi</b> , Soonok Kim, Eun Hee Bae, In-Tae Cha and Jae-Shin Kang	
16:20~16:40	SC I-05	A metagenomic analysis of the blooming colony of <i>Nostoc commune</i> and soil In-Tae Cha, Eun Hee Bae, Soonok Kim, Won-Jae Chi, Jae-Shin Kang	
		<b>B r e a k T i m e</b>	
<b>일반구두발표</b>			에메랄드
<b>OO-1</b>			좌장 : 김주형
15:00~15:20	OO-01	Evolutionary history of plastid genome in chrysophytes: Genome reduction and compaction in non-photosynthetic species <b>Jong Im Kim</b> , Minseok Jeong, John M. Archibald, Woongghi Shin	
15:20~15:40	OO-02	Spatio-temporal structure of the macroalgal assemblage in Jeju Provincial Marine Park <b>Young Wook Ko</b> , Jeong Chan Kang, Jung Kwan Ahn, Myung Sook Kim	
15:40~16:00	OO-03	New transplantation method for mature perennial brown algae with conical or discoid holdfasts (II) <b>Jeong Chan Kang</b> , Myung Sook Kim	
16:00~16:20	OO-04	Improved spore bag method with drift algae and recycling cloth rope for recovering community of edible algae <i>Sargassum fulvellum</i> <b>Min Su Kang</b> , Seong-Wan Hong, Jeong Chan Kang	
		<b>B r e a k T i m e</b>	
<b>특별세션</b>			그랜드볼룸I
<b>SC-2. 특별세션</b>		Blue carbon and its applications	좌장 : 김장균
17:00~17:20	SC II-01	The Seaweed Manifesto and the new Safe Seaweed Coalition <b>Vincent Doumeyer</b>	
17:20~17:40	SC II-02	Cultivation and applications of blue carbon biomass for environmental sustainability considering global climate change <b>Jang Kyun Kim</b> , Dong-Ku Kang, Tae Hyun Kim, Yeon-Ho Kim, Yeon Jeong Kim, Tae Eun Lim, Jae Sung Rhee	
17:40~18:00	SC II-03	블루카본으로서 아열대 지표종 육덩굴의 육상양식 최한길, 박서경	
18:00~18:20	SC II-04	Seaweed bed restoration is important to play the role of CO <sub>2</sub> sink <b>Chang Geun Choi</b>	
18:20~18:30	SC II-05	2021년 완도국제해조류엑스포 개최 홍보 - 인류를 구할 해조류, 그 가치를 보여주다. 완도군	
		<b>B r e a k T i m e</b>	
<b>신진연구자발표</b>			에메랄드
<b>AO-1</b>			좌장: 윤환수
17:00~17:20	AO-01	Photosynthetic <i>Paulinella</i> genome reveals dominant host contribution to plastid endosymbiosis <b>Duckhyun Lhee</b> , JunMo Lee, Khauula Ettahi, Chung Hyun Cho, Ji-San Ha, Hwan Su Yoon	
17:20~17:40	AO-02	Further investigations on the Stramenopiles SI clade using multigene phylogeny, morphological observation and re-examination of the literature <b>Louis Graf</b> , Eun Chan Yang, Robert A. Andersen, Hwan Su Yoon	
17:40~18:00	AO-03	New subtidal discovery of Ulvaceae (Chlorophyta) from Jeju Island with description of <i>Umbraulva yunseulla</i> sp. nov. and <i>Ulva adhaerens</i> <b>Hyung Woo Lee</b> , Eun Hee Bae, Myung Sook Kim	

**10월 23일 (금)**

기조강연			
9:00~9:40	PL II	R&D and Industrial Value of Phycology in the Pandemic Era R&D and Industrial Value of Phycology in the Pandemic Era	그랜드볼룸I 좌장 : 박명길
		<b>B r e a k T i m e</b> 조류를 활용한 자연환경보전 및 융복합연구	
특별세션			
SC-03			그랜드볼룸I 좌장 : 김명숙
10:00~10:20	SC III-01	고대습지의 복원 연구를 위한 돌말류의 활용 이상득, 권대률, 박미례, 이창수, 이호일, 이진영	
10:20~10:40	SC III-02	제주해협에서 해양 아열대성 외편모류 <i>Ornithocercus</i> 와 <i>Triposolenia</i> 의 북방 이동 및 범위 김미란, 이보라, 김종규, 최병주, 김광용, 박명길	
10:40~11:00	SC III-03	기후변화지표종 옥侮굴( <i>Caulerpa okamurae</i> )의 지리적 분포·재생 및 활용에 관한 연구 김주희, 박서경, 최한길, 배성준, 곽민석, 황은경, 조태오, 부성민	
11:00~11:20	SC III-04	김황백화의 생리적 특성과 회복을 위한 영양물질 개발 연구 이상용, 이지은, 유현일, 김영대, 황미숙	
11:20~11:40	SC III-05	Phylogeography of <i>Gloiopelets furcata sensu lato</i> provides new insights into population distribution in the Northwest Pacific <b>Mi Yeon Yang, Daisuke Fujita, Myung Sook Kim</b>	
		휴식 및 점심시간 (11:40 - 13:00)	
학생구두발표 I		생태, 생리, 환경	에메랄드
SO-01			좌장 : 신용기
10:00~10:15	SO I-01	Clonal propagation of <i>Undaria pinnatifida</i> through protoplast-derived aposporous filament culture <b>Jose Avila-Peltrone, Boo Yeon Won, Tae Oh Cho</b>	
10:15~10:30	SO I-02	원도군 조간대 해조류의 종 다양성 조사 최광철, 원부연, 조태오	
10:30~10:45	SO I-03	Seasonal dynamics of diurnal fluctuation in seawater carbonate chemistry and dissolved oxygen in a variety of macroalgal habitats regulated by biochemical interaction <b>Hanbi Moon, Ju-Hyoung Kim</b>	
10:45~11:00	SO I-04	Seasonal succession of three <i>Alexandrium</i> species in Korea strait: applying the Outlying Mean Index analysis <b>Juhe Min, Kwang Young Kim</b>	
11:00~11:15	SO I-05	The improved growth of <i>Haematococcus lacustris</i> NIES144 is driven by interaction of algal phycosphere bacterial communities <b>Sang-Ah Lee, Hee-Mock Oh, Chi-Yong Ahn</b>	
11:15~11:30	SO I-06	Can the growth enhancement by AMPEP be inherited in <i>Pyropia yezoensis</i> ? <b>Sol Han, Hyein Song, Ji-Sook Park and Jang K. Kim</b>	
		휴식 및 점심시간 (11:40 - 13:00)	
학생구두발표 II		분류, 형태, 유전	에메랄드
SO-02			좌장 : 양은찬
13:00~13:15	SO II-01	A comparative organelle genomic study on red algal genus <i>Ahnfeltia</i> (Florideophyceae) <b>Hocheol Kim, Ji Hyun Yang, Andres Mansilla, Christine A Maggs, Gayle Hansen, Hwan Su Yoon</b>	
13:15~13:30	SO II-02	A phylogenetic analysis on the evolution of sexual reproduction in <i>Vaucheria</i> <b>Seok-Wan Choi, Robert A. Andersen, Hwan Su Yoon</b>	
13:30~13:45	SO II-03	First report of the fragmented mitochondrial genomes in the Stylocladaceae (Rhodophyta) 이용성, 이유민, 조충현, 윤환수	
13:45~14:00	SO II-04	Taxonomy and phylogeny of <i>Ralfsia</i> -like ( <i>Ralfsiales, Phaeophyceae</i> ) taxa, with descriptions of one novel genus from Korea <b>Antony Otinga Oteng'o, Boo Yeon Won, Tae Oh Cho</b>	
14:00~14:15	SO II-05	Distribution of genetic diversity in <i>Pachymeniopsis elliptica</i> and <i>P. lanceolata</i> (Halymeniacae, Rhodophyta) 조수미, 양미연, 김명숙	

포스터 발표		포스터 발표 (13:00-14:30)	
PA. 분류 및 진화			좌장 : 조태오
13:00-14:30	PA-01	Expansion of species diversity in the genus <i>Galene</i> (Halymeniaceae, Rhodophyta) from the northwestern Pacific with description of <i>G. seolmundae</i> sp. nov.	
		<b>Hyung Woo Lee</b> , Myung Sook Kim	
	PA-02	A new <i>Chloromonas</i> species (Volvocales, Chlorophyceae) from Antarctica	
		<b>Hyunsik Chae</b> , Eun Jai Kim, Han Soon Kim, Han-Gu Choi, Sanghee Kim, Ji Hee Kim	
	PA-03	New Record of Sand-dwelling Dinoflagellates <i>Testudinodinium</i> and <i>Thecadinium</i> (Dinophyceae) around Jeju Island, Korea	
		<b>Su-Min Kang</b> , Nayoung Choi, Jae Yeong Park and Joon-Baek Lee	
	PA-04	Species delimitation of <i>Gracilaria incurvata</i> (Gracilariaeae, Rhodophyta) based on morphology and molecular analysis	
		<b>Woo Joo Kang</b> , Mi Yeon Yang, Myung Sook kim	
	PA-05	국립해양생물자원관 해조류 증식가능자원 배양실 운영현황	
		곽민석, 박정광, 김경미, 장형석, 강남선, 김은송, 이정아, 유종수	
	PA-06	Floristic Study of New Diatoms species in Lagoon Areas on the Eastern Coast of Korea	
		권대률, 이상득, 박미례, 이창수	
	PA-07	국내 저서해역에 출현하는 <i>Haslea</i> 종의 분류	
		김소연, 최충현, 김병석, 박종규	
	PA-08	Evaluating the utility of five organelle genes for Phylogeographic study of halymenialean species (Rhodophyta)	
		김수연, 윤한수, 김선주, 김명숙	
	PA-09	A New Recorded Freshwater Species of <i>Limnothrix plantonica</i> from Nakdonggang River in South Korea	
		<b>Mirye Park</b> , Seung Won Nam, Sang Deuk Lee, Daeryul Kwon, Z-Hun Kim, Chang Soo Lee	
	PA-10	Taxonomy of <i>Chondrus giganteus</i> (Gigartinaceae, Rhodophyta) based on morphology and mitochondrial COI gene	
		오여경, 양미연, 김명숙	
	PA-11	국내 분포 감태속(gen. <i>Ecklonia</i> )의 형태적 다양성	
		육정현, 이상래, 허진석, 김승오, 황은경	
	PA-12	Reassessment of genetic diversity of <i>Plocamium cartilagineum</i> (Plocamiales, Rhodophyta) based on COI and rbcL genes	
		<b>Sun Ju Lee</b> , Mi Yeon Yang, Hyung Woo Lee, Myung Sook Kim	
	PA-13	Description of A Newly Recorded Blue-Green Algae Species of <i>Anagnostidinema carotinosum</i> ( <i>Geitlerinema carotinosum</i> ) from Nakdonggang River in South Korea	
		<b>Mirye Park</b> , Seung Won Nam, Sang Deuk Lee, Daeryul Kwon, Z-Hun Kim, <b>Chang Soo Lee</b>	
	PA-14	해양 외관모류를 감염시키는 두 기생성 편모류 <i>Tuberlatum coatsi</i> 와 <i>Parvilucifera multicavata</i> (Alveolata, Perkinsozoa)의 형태 및 분자계통학적 분석	
		전부성, 박명길	
	PA-15	담수생물자원은행(FBCC)	
		정대원, 한웅, 백기운, 강창희, 박영환, 남윤종, 권현진, 정애란, 김지환	
	PA-16	<i>Heterocapsa busanensis</i> n. sp. (Dinophyceae, Peridiniales): a new marine thecate dinoflagellate from Korean coastal water	
		<b>Hojoon Choi</b> , Sunju Kim	
	PA-17	An evidence of Tethyan seaway closure driving the diversification of red algae, in case of tribes Ceremieae and Streblocladieae (Ceramiales, Rhodophyta)	
		<b>Hyung-Seop Kim</b>	
	PA-18	New insights into the classification of the order Ceramiales (Rhodophyta) based on the SSU-rDNA + rbcL concatenated data and procarpic development	
		<b>Hyung-Seop Kim</b> , Han-Gu Choi	
	PA-19	국내 저서에 출현하는 <i>Halimphora</i> sp.의 형태 및 분자생물학적 분류	
		최충현, 김소연, 김병석, 박종규	
	PA-20	Isolation of freshwater microalgae from various environments	
		<b>Yun-Jeong Lee</b> , Min-Jeong Kim, Ji-Seok Kim, Tae-Jin Choi	
	PA-21	The phylotranscriptomic analysis of dinoflagellate species	
		<b>Seongmin Cheon</b> , Hyun-Hee Hong, Sung-Gwon Lee, Jooseong Oh, Hyun-Gwan Lee, KwangYoung Kim, Chungoo Park	
	PA-22	국내에서 분리 배양중인 <i>Nitzschia</i> 속의 형태 및 분자생물학적 특징	
		김병석, 김소연, 최충현, 박종규	

포스터발표			
PB. 생태, 환경			좌장 : 최한길
<b>13:00-14:30</b>	<b>PB-01</b>	Reduction of growth and photosynthesis in the harmful dinoflagellate <i>Cochlodinium polykrikoides</i> by coculturing with the green alga <i>Tetraselmis suecica</i>	
	<b>Hansol Kim, Bui Thi Nhu Quynh, Yoseph Seo, Buhari Lawan Muhammad, Taehee Kim, Jang-Seu Ki</b>		
	<b>PB-02</b>	Growth enhancement of three dinoflagellates by oil-degrading bacteria isolated from oil polluted sites after the Texas City "Y" oil spill	
	<b>Bum Soo Park, Hernando Bacosa, Zhanfei Liu, Deana L. Erdner, Edward J. Buskey</b>		
	<b>PB-03</b>	Temporal change of macroalgal species composition and community structure during a decade in Udo islet, Jeju, Korea	
	<b>Jeong Chan Kang, Hyung Woo Lee, Myung Sook Kim</b>		
	<b>PB-04</b>	Seasonal dynamics and genetic diversity of marine parasitic Syndiniales (Alveolata) in Korea coastal water	
	<b>Jiae Yoo, Sunju Kim</b>		
	<b>PB-05</b>	Epibionts associated with floating <i>Sargassum horneri</i> in the Korea Strait	
	<b>Hye M. Kim, Jihoon Jo, Chungoo Park, Byoung-Ju Choi, Hyun-Gwan Lee and Kwang Young Kim</b>		
	<b>PB-06</b>	Quantitative assessment of marine toxic dinoflagellate <i>Karenia papilionacea</i> by real-time qPCR assay in Korean coastal waters	
	<b>Min Ji Cho, Bum Soo Park, Sunju Kim</b>		
	<b>PB-07</b>	Distribution and biomass of intertidal macroalgae in Barton Peninsula, King George Island, Antarctica	
	<b>Young Wook Ko, Dong Seok Lee, Hyunsik Chae, Hyunjoong Kim, Han-Gu Choi</b>		
	<b>PB-08</b>	남해안 여수시 하백도 인근 무인도서의 하계 해조상	
	<b>류바다, 김하원, 이규길, 김영식</b>		
	<b>PB-09</b>	춘-하계 거금도 조간대의 해조생태	
	<b>박영민, 이민정, 김민주, 우병찬, 김남길</b>		
	<b>PB-10</b>	통영 연안에 서식하는 해호말( <i>Halophila nipponica</i> )의 생물계절	
	<b>송준혁, 김민주, 이민정, 김남길</b>		
	<b>PB-11</b>	춘-하계 청산도 조하대 해조생태	
	<b>우병찬, 이민정, 김민주, 박영민, 김남길</b>		
	<b>PB-12</b>	Growth and ingestion rates of the mixotrophic dinoflagellate <i>Polykrikos lebourae</i>	
	<b>유영두, 노정래, 이원호</b>		
	<b>PB-13</b>	동해안 독도의 해조류(Macroalgae) 종다양성 연구	
	<b>장형석, 김경미, 곽민석, 박정광, 강남선, 김은승, 이정아, 유종수</b>		
	<b>PB-14</b>	돌밀류를 활용한 상주 공검지의 생성시기 규명 및 과거 규모에 대한 디지털 복원	
	<b>이상득, 권대률, 박미례, 이창수, 이호일, 이진영</b>		
	<b>PB-15</b>	강원도 고성지역의 하계 해조류 생물다양성 확보	
	<b>이종철, 고영호, 안승락, 윤원종, 정용환</b>		
	<b>PB-16</b>	제주도 올레 1,2 코스 조간대의 하계 해조류 다양성	
	<b>이종철, 윤원종, 정용환</b>		
	<b>PB-17</b>	비단풀 ( <i>Ceramium kondoii</i> )의 서해생태 적응 과정 연구를 위한 개체군 분석	
	<b>이지영, 양은찬</b>		
	<b>PB-18</b>	해양 와편모류를 감염시키는 기생생물 <i>Tuberlatum coatsi</i> 와 <i>Parvilucifera multicavata</i> (Alveolata, Perkinsozoa)의 속주 범위와 감염 민감도 비교	
	<b>조진성, 전부성, 박명길</b>		
	<b>PB-19</b>	기장 연안 해조 군집의 연간 변화	
	<b>정승욱, 예미경, 흥성재, 이재호, 최창근</b>		
	<b>PB-20</b>	비파괴적 해조 군집 조사를 위한 생물량 추정 방법	
	<b>정승욱, 최창근</b>		
	<b>PB-21</b>	적조생물에 대한 참굴( <i>Crassostrea gigas</i> )의 패각운동 분석	
	<b>문수연, 임월애, 김대현, 김석윤, 이준호, 오석진</b>		
	<b>PB-22</b>	염분변화에 따른 <i>Alexandrium catenella</i> , <i>A. pacificum</i> 그리고 <i>Gymnodinium catenatum</i> 독합량의 변화	
	<b>김만복, 안효빈, 리페이진, 한지승, 임월애, 박종우, 신현호, 오석진</b>		
	<b>PB-23</b>	Three-dimensional microhabitat characterization of rhodolith, <i>Lithothamnion australe</i> (Rhodophyta, Corallinales) based on heterogeneity of photosynthetic performance	
	<b>Ju-Hyoung Kim</b>		
	<b>PB-24</b>	Evaluating bloom potential of the green-tide forming alga <i>Ulva ohnoi</i> under future climate conditions	
	<b>Eun Ju Kang, A-Reum Han, Ju-Hyoung Kim, Il-Nam Kim</b>		
	<b>PB-25</b>	Developing removal efficiency criterion for pest organisms (diatom and Ulvoid green alga) from <i>Pyropia</i> aquaculture through the acid shock method	
	<b>Ayeon Choi, Ju-Hyoung Kim, Eun Ju Kang, Kook Hee Kang, Mi-Jung Han</b>		
	<b>PB-26</b>	방사무늬김 ( <i>Pyropia yezoensis</i> )의 활백화 현상과 항산화제 ascorbic acid 처리	
	<b>윤종석, 김로원, 김광훈</b>		
	<b>PB-27</b>	Effect of Kelpak® on the Growth and Thermal Tolerance of <i>Pyropia yezoensis</i>	
	<b>Hyein Song, Sol Han, Ji-Sook Park, Jang K. Kim</b>		
	<b>PB-28</b>	Effects of benzophenone-3 (oxybenzone) on the growth, pigments and photosynthesis of <i>Agarophyton vermiculophyllum</i>	
	<b>Daehyeon Kim, Youngwoo Kim, Ji-Sook Park and Jang K. Kim</b>		
	<b>PB-29</b>	한국 남서해안 조간대 영구방형구에서 해조류의 생장 변화	
	<b>이영민, 안대성, 최한길</b>		

포스터발표				
PC. 생리 및 유전				좌장 : 이준모
13:00~14:30	PC-01	Mechanical stimuli enhance growth of <i>Ulva fasciata</i> (Chlorophyta) spores		
		Sang Mok Jung, <b>Sinyang Kim</b> , Jihyun Park, Hwa-Rim Lee, Seongju Kim, Hee-Jung Jung, Sungjune Jung, Hyun Woong Shin, Dong Soo Hwang		
	PC-02	Growth rate of diverse phytoplankton species under thermal stress conditions		
		<b>Yujin Jeong</b> , JunMo Lee		
	PC-03	내생 녹조류 <i>Bolbocoleon</i> sp.의 생장에 미치는 온도 및 광도의 영향		
		김하원, 큐비다, 김진송, 김영식		
	PC-04	Comparative proteomic analysis of different life stages of marine red alga, <i>Pyropia tenera</i>		
		<b>Jong Won Han</b> , Jin Wook Han, Hyun-Ju Hwang, Hanchul Jeon, Kichul Jo, Hyoun Dae Hong		
	PC-05	DinoRsour: a comprehensive transcriptome analyses of the dinoflagellate species that have exceptionally large and complex nuclear genomes		
		<b>Hyun-Hee Hong</b> , Sung-Gwon Lee, Hyun-Gwan Lee, Seongmin Cheon, Jooseong Oh, Kwang Young Kim, Chungoo Park		
	PC-06	김 갯벌을 예방하는 방사무늬김의 유도저항성		
		강다영, 김광훈		
	PC-07	홍조식물 <i>Bostrychia moritziana</i> 의 수정 과정 중 세포골격 역할		
		박하나, 심은영, 김광훈		
	PC-08	Influence of global warming and eutrophication on copper toxicity in the bloom forming species, <i>Ulva prolifera</i>		
		<b>Menglin Bao</b> , Ji-Sook Park, Jang K. Kim		
	PC-09	Bioremediation capacity of <i>Gracilaria</i> at a condition simulating a land-based finfish farm		
		<b>Sookkyung Shin</b> , Ji-Sook Park, Jang K. Kim		
포스터발표				
PD. 생명공학				좌장 : 이준모
13:00~14:30	PD-01	Optimal conditions for protoplast isolation from two economic brown algae, <i>Scytosiphon lomentaria</i> (Ectocarpales) and <i>Dictyopteris pacifica</i> (Dictyotales)		
		<b>Jose Avila-Peltroche</b> , Boo Yeon Won, Tae Oh Cho		
	PD-02	De novo transcriptome sequencing of the toxic dinoflagellate <i>Alexandrium catenella</i> exposed to a combination of different stresses		
		Hui Wang, Hansol Kim, Sofia Abbasi, Hye Jeong Choi, Bui Thi Nhu Quynh, <b>Jang-Seu Ki</b>		
	PD-03	Anti-Apoptotic and Anti-Inflammatory Activities of Edible Fresh Water Algae <i>Prasiola japonica</i> in UVB-Irradiated Skin Keratinocytes		
		최은주, 박상희, 김성규, 장성구, 최영임, 박경자, 김동삼, 조재열		
	PD-04	Oxidative Stress-Protective and Anti-Melanogenic Effects of Loliolide and Ethanol Extract from Fresh Water Green Algae, <i>Prasiola japonica</i>		
		<b>Sang Hee Park</b> , Eunju Choi, Sunggyu Kim, Dong Sam Kim, Ji Hyeon Kim, SeokGu Chang, Kyung Ja Park, Jae Youl Cho		
	PD-05	Application of CRISPR-Cas9 System for green fluorescent protein gene silencing in <i>Chlamydomonas reinhardtii</i>		
		<b>Hanchoel Jeon</b> , Hyun Dae Hong, Jinwook Han, Kichul Cho, Hyun-Ju Hwang, Jong Won Han		
	PD-06	Purification of a novel fetuin binding lectin from marine green algal, <i>Cladophora</i> sp.		
		Jin-Wook Han, Hyun-Ju Hwang, Hanchoel Jeon, Kichul Cho, Kyoung Hwa Baek, Min Seok Kwak, <b>Jong Won Han</b>		
	PD-07	An advanced experimental method for small-organelles enriched metagenomics (SoEM)		
		<b>Soyeong Jin</b> , Jihoon Jo, Jooseong Oh, Seongmin Kim, Kwang Young Kim, Chungoo Park		
	PD-08	Microalgae transformation system using a salt inducible promoter (SIP) derived from <i>Chlorella vulgaris</i>		
		Min-Jeong Kim, Ji-Seok Kim, Yun-Jeong Lee, Tae-Jin Choi		
	PD-09	Alverine, component of fresh water algae ( <i>prasiola Japonica</i> ), exerts anti-inflammatory function by targeting Src in the NF- $\kappa$ B pathway		
		Chae Young Lee, Han Gyung Kim, <b>Dong Sun Kim</b> , Sang Hee Park, Seok Gu Jang, Kyung Ja Park, Dong Sam Kim, Jae Youl Cho		
	PD-10	Antiaapoptosis and Antiscratching Effects of Loliolide, monoterpenoid hydroxylactone present in freshwater algae ( <i>prasiola japonica</i> )		
		Sang Hee Park, <b>Dong Sun Kim</b> , Eunju Choi, Sunggyu Kim, Dong Sam Kim, Ji Hyeon Kim, SeokGu jang, Kyung Ja Park, Jae Youl Cho		