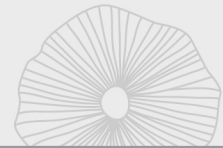




Program at a Glance

May 5~7, 2022 / Wando Culture & Arts Center

May 6 (Fri.)			
Time	공연동(2F)	문화동(1F)	다목적홀(3F)
09:30~10:00	Registraion		
10:00~11:00	Young Scientist Award Competition		
11:00~12:15	Contributed Paper I	Contributed Paper II	Student Presentation I
12:15~13:00	Lunch		
13:00~13:35	Opening Ceremony		
13:35~14:25	Plenary I (Charlie Yarish)		
14:25~14:40	Break		
14:40~16:10	Special Session I Future of Seaweed Aquaculture, as Sustainable Foods	Special Session II Utilization of Seaweed Biomass for Health	Student Presentation II
16:10~16:20	Break		
16:20~17:55	Special Session III Seaweed Industry for healthy future	Special Session IV Management of marine ecosystem and marine ecological restoration	Special Session V Seaweed aquaculture and applications
17:55~	Banquet		



May 7 (Sat.)			
Time	공연동(2F)	문화동(1F)	다목적홀(3F)
08:30~09:00	Registraion		
09:00~09:50	Plenary II (Taejun Han)		
09:50~10:00	Break		
10:00~11:30	Special Session VI Seaweed Aquaculture and CDR	Special Session VII Environmental effects on phytoplankton diversity and its monitoring	Student Presentation III
	Break		
11:30~11:40	Break		
11:40~12:40	Poster Session (1F 전시동)		
12:40~13:10	Closing Ceremony		
13:10~	Lunch		



Scientific Program

May 6, Friday

Young Scientist Award Competition AO-I

공연동 (2F)
Chair : 김주형, 박은정

10:00-10:15	AO-01	Taxonomic appraisal of the family Kallymeniaceae (Gigartinales, Rhodophyta) from Korea <u>Hyung Woo Lee</u> , Myung Sook Kim
10:15-10:30	AO-02	Phylogenomics of RedToL (Red algal Tree of Life) Provides Evidence for Inter-classes Ancient Rapid Radiation and Reticulate Evolution <u>Jihoon Jo</u> , Chung Hyun Cho, Hwan Su Yoon
10:30-10:45	AO-03	Blue light-mediated mechano-stimulation in <i>Ulva australis</i> <u>Hojun Lee</u> , Jihae Park, Stephen Depuydt, Soyeon Choi, Taejun Han
10:45-11:00	AO-04	Deciphering the oxylipin signaling pathways during defense responses in the kelps <u>Qikun Xing</u> , Gabriel Markov, Sylvie Rousvoal, Emeline Lejeune, Cédric Leroux, Erwan Corre, Philippe Potin, Jang K Kim, Catherine Leblanc

Contributed Papers CO-I

공연동 (2F)
Chair : 부가훈

11:00-11:15	CO-I-01	Phylogeography to define conservation priorities on seven red algal taxa from Korea <u>Mi Yeon Yang</u> , Su Yeon Kim, Myung Sook Kim
11:15-11:30	CO-I-02	Diversity, biogeography and evolution of Hildenbrandiales (Florideophyceae, Rhodophyta) <u>Christophe Vieira</u> , Cody Brooks, Shingo Akita, Myung Sook Kim, Gary Saunders
11:30-11:45	CO-I-03	Genetic diversity and phylogeography of a turf-forming red alga, <i>Gelidium crinale</i> (Gelidiales, Rhodophyta) <u>Ga Hun Boo</u> , Line Le Gall, Antonella Bottalico, Hwan Su Yoon
11:45-12:00	CO-I-04	Analysis of infection mechanisms of two types of <i>Olpidiopsis</i> pathogens infecting the red algae host <i>Dasysiphonia japonica</i> <u>Xianying Wen</u> , Gwang Hoon Kim

Contributed Papers CO-II

문화동 (1F)
Chair : 이상득

11:00-11:15	CO-II-01	Hydrogen peroxide signaling mediates fertilization and post-fertilization development in the red alga <i>Bostrychia moritziana</i> <u>Eunyoung Shim</u> , Hana Park, Giuseppe C. Zuccarello, Gwang Hoon Kim
11:15-11:30	CO-II-02	Strain-dependent functionalities of cryptomonad plastids acquired by the kleptoplastidic ciliate strain MR-MAL01 Hee Su Kim, <u>Wonho Yih</u> , Keon Gang Jang, Mi Ryoung Oh, Hyung Seop Kim
11:30-11:45	CO-II-03	순천만 습지 퇴적토의 연대별 돌말류 분포 및 신종후보(<i>Giffenia</i> sp.) 연구 이상득, 김지환, 윤석민, 박미례
11:45-12:00	CO-II-04	Fluorescence and lipid bodies as potential new endpoint markers for toxicity tests to complement cell number in the benthic diatom <i>Cylindrotheca closterium</i> <u>Jihae Park</u> , Hojun Lee, Stephen Depuydt, Philippe Heynderickx, Di Wu, Taejun Han
12:00-12:15	CO-II-05	Sea reforestation experiment with several new methods of transplanting Sargassaceae (Fucales, Ochrophyta) in shallow waters off the Coast of Jeju Island <u>Jeong Chan Kang</u> , Seong-Wan Hong, Min Su Kang, Chong-Hyun Hong, Hyung Woo Lee, Myung Sook Kim

Student Presentation (Oral)

다목적홀 (3F)

SO-I

Chair : 김동석

11:00-11:15	SO I-01	Phylogenomic analysis of organelle genomes explains brown algal evolution <u>Seok-Wan Choi</u> , Ji Won Choi, Louis Graf, Hiroshi Kawai, Seung Wook Jung, Chang Geun Choi, Hwan Su Yoon
11:15-11:30	SO I-02	Revised classification of the Cyanidiophyceae with descriptions of the <i>Cavernicolales</i> ordo nova <u>Seung In Park</u> , Chung Hyun Cho, Claudia Ciniglia, Tzu-Yen Huang, Shao-Lun Liu, Danilo E. Bustamante, Andres Mansilla, Robert A. Andersen, Hwan Su Yoon
11:30-11:45	SO I-03	Pigment evolution: Same genus but different pigment in <i>Porphyridium</i> <u>Dongseok Kim</u>
11:45-12:00	SO I-04	Genomic features of geographically diverged genus <i>Ahnfeltia</i> (Florideophyceae, Rhodophyta) <u>Hocheol Kim</u> , Chung Hyun Cho, Jihoon Jo, Louis Graf, Hwan Su Yoon
12:00-12:15	SO I-05	Mitochondrial genome expansion and conversion into minicircles in the Stylonematophyceae (Rhodophyta) <u>Yongsung Lee</u> , Chung Hyun Cho, Yu Min Lee, Ji Hyun Yang, Seung In Park, John A. West, Debashish Bhattacharya, Hwan Su Yoon

Plenary Lecture

공연동 (2F)

PL-I

Chair : 김장균

13:35-14:25	PL-01	Seaweed Aquaculture in the US: An Introduction to the US MARINER Program (ARPAE, DOE) <u>Charles Yarish</u> , J.K. Kim, S. Lindell, M. Stekoll, Y. Li, S. Umanzor, D. Bailey, J-L. Jannink, M. Huang, K.R. Robbins, M. Marty-Rivera, M.R. Aydtlett, K. Barbery, B. Smith, L. Roberson, D. Mangelli, A. Pryor, N. Mangini, J. Decker, T. Dewhurst, H. Kite-Powell, B. Perry, C.A. Goudey
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Special Session

공연동 (2F)

SS-I

Chair : 김광훈, 윤환수

14:40-15:00	SS I-01	<i>Pyropia</i> (GIM) Cultivation in Korea : From Historic Trends to Current Innovation <u>Eun-Jeong Park</u>
15:00-15:20	SS I-02	A study on the use of an activator to increase the production of <i>Neopyropia</i> aquaculture: development of efficiency criterion and autonomous injection device <u>Ju-Hyoung Kim</u> , Eun Ju Kang
15:20-15:40	SS I-03	Developing new tools to understand the diversity of <i>Undaria pinnatifida</i> in Korea and develop improved breeding methods <u>Louis Graf</u> , Hwan Su Yoon
15:40-16:00	SS I-04	Seaweeds cultivation and research in Okinawa, Mozuku and Sea grapes <u>Koki Nishitsuji</u>

Special Session

문화동 (1F)

SS-II

Chair : 전유진, KKA Sanjeewa

14:40-15:00	SS II-01	Malaysian brown macroalga <i>Padina australis</i> mitigates the neuroinflammatory effect of LPS-induced BV2 microglia Kogilavani Subermaniam, <u>Yoon-Yen Yow</u> , Siew-Huah Lim, Kah-Hui Wong
15:00-15:20	SS II-02	Bioactive properties of fucoidans and their potential industrial applications <u>KKA Sanjeewa</u>



Special Session
SS-II

문화동 (1F)
Chair : 전유진, KKA Sanjeewa

15:20-15:40	SS II-03	Utilization of <i>Ulva prolifera</i> for human health <u>Xiaoting Fu</u>
15:40-16:00	SS II-04	Antiviral effect of seaweed on COVID-19 <u>D. P. Nagahawatta, You-Jin Jeon</u>

Student Presentation (Oral)
SO-II

다목적홀 (3F)
Chair : 한솔

14:40-14:55	SO II-01	NOX 돌연변이를 활용한 붉은갯병균 생활사 연구 <u>장효섭, 김광훈</u>
14:55-15:10	SO II-02	홍조식물 비단잘룩이 (<i>Griffithsia monilis</i>)의 세포재건 기작 <u>홍찬영, 문종석, 이지웅, 김광훈</u>
15:10-15:25	SO II-03	<i>Sargassum horneri</i> extract as a new biostimulant: comparisons of extraction methods for growth of <i>Neopyropia yezeoensis</i> <u>Sol Han, Ji-sook Park, Jang K. Kim</u>
15:25-15:40	SO II-04	Thermal stress kelp (<i>Saccharina latissima</i>) cultivar development by using breeding technology and the seaweed derived biostimulant, AMPEP <u>YoungWoo Kim, Ji-Sook Park, Charles Yarish, Jang K. Kim</u>
15:40-15:55	SO II-05	남해와 서해에 분포하는 비단풀 (<i>Ceramium kondoi</i>)과 깃털비단풀 (<i>C. japonicum</i>) 개체군 세포소기관 유전체 비교 <u>이지영, 김선주, 양은찬</u>
15:55-16:10	SO II-06	Influence of salinity and photosynthetically active radiation on the early development of <i>Grateloupia turuturu</i> (Halymeniaceae, Rhodophyta) <u>Jae Woo Jung, Ji-Sook Park, Jang Kyun Kim</u>

Special Session
SS-III

공연동 (2F)
Chair : 황미숙, 황은경

16:20-16:40	SS III-01	한국의 김 산업 현황 및 업계 사례 <u>이상민</u>
16:40-17:00	SS III-02	Current status and prospects of <i>Undaria</i> industry in Japan <u>Junichi Sato</u>
17:00-17:20	SS III-03	A virtuous-cycle industry model based on brown algae derived bioactive substances <u>Hyeon-Cheol Shin</u>
17:20-17:40	SS III-04	ASC-MSC Seaweed Standard & Certification Program <u>Mark Jongseok Seo</u>
17:40-17:55	SS III-05	Brown Seaweed Cultivation on the West Coast of Canada <u>Mike Williamson</u>

Special Session
SS-IV

문화동 (1F)
Chair : 최창근, 오태건

16:20-16:40	SS IV-01	Marine forest and the role of FIRA <u>Chun-Woo Lee</u>
16:40-17:00	SS IV-02	Marine forest project in Korea <u>Yong-Woo Choi</u>
17:00-17:20	SS IV-03	Marine ecosystem monitoring and management efforts in Korea <u>Young Nam Kim</u>
17:20-17:40	SS IV-04	Factors governing carbon dynamics in a macroalgal habitat <u>Kitack Lee, Ja-Myung Kim</u>

Special Session

SS-V

다목적홀 (3F)

Chair : 안긴내, 양은찬

16:20-16:40	SS V-01	Harnessing the power of citizen science to advance kelp farming in Alaska <u>Schery Umanzor</u>
16:40-17:00	SS V-02	From small scale to large scale kelp aquaculture using delayed gametophytes as seedstock. <u>Alexander Ebbing, Haik van Exel</u>
17:00-17:20	SS V-03	Prevention strategies for <i>Ulva</i> green tides at source in the Southern Yellow Sea, China <u>Jianheng Zhang, Yuqing Sun, Jinlin Liu, Meilin Fu, Zhangyi Xia, Peimin He</u>
17:20-17:40	SS V-04	Marine Polysaccharides as Potential SARS-CoV-2 Propagation Inhibitors in Vitro <u>Kyoojin Jung</u>

May 7, Saturday

Plenary Lecture

PL-II

공연동 (2F)

Chair : 최한길

09:00-09:50	PL-02	Miniscule diatoms dwelling in tidal flats can constrain global climate change Jihae Park, Hojun Lee, Wim Vyverman, Koen Sabbe, Jana Asselman, Colin Janssen, Katja Philippart, Jacco C. Kromkamp, Stephen Depuydt, Jonas De Saeger, Murray T. Brown, <u>Taejun Han</u>
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Special Session

SS-VI

공연동 (2F)

Chair : 정익교, 김장균

10:00-10:20	SS VI-01	Oceans 2050 Seaweed Carbon Farming Project <u>Isidro San Martin</u>
10:20-10:40	SS VI-02	Seaweed solution Study in Korea <u>Ik Kyo Chung</u>
10:40-11:00	SS VI-03	Global perspective of seaweed aquaculture and CDR <u>Paul Dobbins</u>
11:00-11:20	SS VI-04	Climate change mitigation and multiple environmental benefits of large-scale seaweed farming <u>Xi Xiao, Susana Agusti, Yuzhou Huang, Jiaping Wu, Carlos M Duarte</u>

Special Session

SS-VII

문화동 (1F)

Chair : 안치용, 백승호

10:00-10:20	SS VII-01	Effects of Warming on Marine phytoplankton <u>Hongbin Liu, Kailin Liu, Bingzhang Chen</u>
10:20-10:40	SS VII-02	Responses of marine phytoplankton to interactions between warming and iron limitation in the future ocean <u>David A Hutchins</u>
10:40-11:00	SS VII-03	Genetic analysis revealed large genetic breaks among Pacific Rim populations in <i>Alexandrium catenella</i> <u>Satoshi Nagai, Mizuki Horoiwa, Nina Yasuda, Satoshi Tazawa, Sirje Sildever, Masafumi Natsuike, Keigo Yamamoto, Hiroshi Yamauchi, Chang-Hoon Kim, Vera Trainer, Daniel Varela, Jorge I. Mardones, Javier Paredes-Mella, Ichiro Imai</u>
11:00-11:20	SS VII-04	Synergistic effects of coastal warming and ammonium increase in the estuarine-coastal continuum, focusing on the role of small phytoplankton <u>Yoonja Kang, Yun-Ho Kang, Chang-Keun Kang</u>

**Student Presentation (Oral)**

다목적홀 (3F)

SO-III

Chair : 류보미

10:00-10:15	SO III-01	The anti-oxidant and -inflammation role of the enzymatic hydrolysates using blades and stipe derived from <i>Ecklonia maxima</i> <u>So-Yeon Park</u> , Hyo-Geun Lee, Jun-Geon Je, D.P. Nagahawatta, You-Jin Jeon
10:15-10:30	SO III-02	Regulation of LPS-induced inflammation by loliolide isolated from <i>Sargassum horneri</i> via TLR mediated NF- κ B, MAPK pathways in macrophages <u>H.H.A.C.K. Jayawardhana</u> , D.P. Nagahawatta, Sang-Woon Lee, Hyo-Geun Lee, Jun-Geon Je, So-Yeon Park, M.J.M.S. Kurera, R.P.G.S.K. Amarasiri, You-Jin Jeon
10:30-10:45	SO III-03	Polyphenolic compounds isolated from marine algae; potent inhibitors against SARS-CoV-2 <u>D. P. Nagahawatta</u> , Jun- Geon Je, N.M. Liyanage, H. H. A. C. K. Jayawardhena, Sang-woon Lee, Hyo-Geon Lee, So-Yeon Park, You-Jin Jeon
10:45-11:00	SO III-04	In vitro and in vivo Antioxidant properties of sulfated polysaccharides from <i>Sargassum thunbergii</i> <u>Sang-Woon Lee</u> , Hyo-Geun Lee, Jun-Geon Je, So-Yeon Park, H. H. A. C. K. Jayawardhana, D.P. Nagahawatta, M.J.M.S. Kurera, R.P.G.S.K. Amarasiri, You-Jin Jeon
11:00-11:15	SO III-05	<i>Sargassum horneri</i> as a prebiotic dietary supplement for immunity development in <i>Streptococcus parauberis</i> infected zebrafish model <u>N.M. Liyanage</u> , Young-Sang Kim, D. P. Nagahawatta, Hye-Won Yang, H.H.A.C.K. Jayawardhana, You-Jin Jeon
11:15-11:30	SO III-06	Inhibitory mechanism on iNOS and COX-2 pathway interaction by purification of sulfated polysaccharides derived from <i>Sargassum binderi</i> <u>Jun-Ho Heo</u> , Jun-Geon Je, Hyo-Geun Lee, Jimin Hyun, Sang-Woon Lee, So-Yeon Park, You-Jin Jeon, BoMi Ryu

Poster (11:40-12:40)

전시동 (1F)

PA. Taxonomy and Evolution

11:40-12:40	PA-01	Comparative Mitochondrial Genomics of Mixotrophic Species <i>Dinobryon</i> (Chrysophyceae): Gene Rearrangement and Gene Gain via Lateral Gene Transfer from Bacteria <u>Jong Im Kim</u> , Sunhwa Rho, Minseok Jeong, Yu Ho Kim, Woongghi Shin
	PA-02	Comparative Plastid Genomics of the Mixotrophic Chrysophytes <i>Dinobryon</i> Species <u>Jong Im Kim</u> , Jimin Cheon, Minseok Jeong, Yu Ho Kim, Woongghi Shin
	PA-03	Evolutionary History of Raphidophyceae Plastid Genomes via Lateral Gene Transfer <u>Jong Im Kim</u> , Bok Yeon Jo, Myung Gil Park, Yeong Du Yoo, Woongghi Shin, John M. Archibald
	PA-04	Comparative Nucleomorph Genomics of the Red-alga Derived Plastid Containing Genus <i>Cryptomonas</i> (Cryptophyceae): Independent Genome Reduction in Non-photosynthetic Species <u>Jong Im Kim</u> , Goro Tanifuji, Minseok Jeong, Woongghi Shin, John M. Archibald
	PA-05	제주대학교 아열대해양식물 기탁등록보존기관 <u>오여경</u> , 이형우, 김명숙
	PA-06	Seaweed Diversity on Udo Islet, Jeju <u>Jeong Chan Kang</u> , Byeongseok Kim, Hyung Woo Lee, Mi Yeon Yang, Myung Sook Kim
	PA-07	Systematics of the Genus <i>Dinobryon</i> (Chrysophyceae) Based on Morphological and Molecular Evidence <u>Minseok Jeong</u> , <u>Nayoung Lee</u> , Seung Won Nam, Jong Im Kim, Woongghi Shin
	PA-08	New sediment diatom species <i>Giffenia</i> sp. from Suncheonman Bay, Korea <u>Mirye Park</u> , Sang Deuk Lee, Jee Hwan Kim, Daeryul Kwon
	PA-09	Evolution of redox regulation system in primary endosymbiosis of <i>Paulinella</i> <u>Duckhyun Lhee</u> , Debashish Bhattacharya, Hwan Su Yoon

Poster (11:40–12:40)

전시동 (1F)

PB. Ecology

11:40–12:40	PB-01	Comparative analysis the physiological and biochemical responses in two <i>Ulva prolifera</i> strains to warming, eutrophication and salinity <u>Menglin Bao</u> , Ji-Sook Park, Qikun Xing, Jang K. Kim
	PB-02	Effect of photosynthetically active radiation on growth of a toxic bloom-forming dinoflagellate, <i>Alexandrium catenella</i> <u>Jae Woo Jung</u> , Ji-Sook Park, Young-Seok Han, Jang Kyun Kim
	PB-03	영덕 창포 대황(<i>Eisenia bicyclis</i>) 개체군의 생장 특성 최영재, 정승욱, 홍성재, 이재호, 최창근
	PB-04	Characteristics of seaweed community in summer and autumn in the intertidal zone of Yeongil Bay on the East coast of Korea <u>Se Jeong Park</u> , Seung Wook Jung, Young Jae Choi, Chang Geun Choi
	PB-05	우리나라 동남부 해역 산호말홍조류 다양성 DB 구축 유영재, 이지영, 김수연, 양은찬
	PB-06	동해 인공어초에 조성된 해조숲의 이산화탄소 흡수량 김주형, 강은주, 문한비, 김하련, 곽철우
	PB-07	개다시마의 지역별 양식 가능성 및 기능성 성분 함량 분석 유현일, 김영대, 황은경, 황미숙
	PB-08	제주연안 천연 해조류 군락에서 대형갈조 모자반류 (<i>Sargassum</i> spp., Ochrophyta)의 시·공간적 분포양상 이종철, 윤원중
	PB-09	광도와 부착기질이 옥덩굴(<i>Caulerpa okamuraa</i>)의 생장에 미치는 영향 곽용성, 김시은, 박서경, 최한길
	PB-10	한국 서해안 채석포 해조상 및 군집구조의 장기모니터링 연구 김시은, 곽용성, 박서경, 최한길
	PB-11	선발 육종한 잇바디돌김(<i>Pyropia dentata</i>) 품종 특성비교 윤순기, 이영재, 고소미, 신현정, 송교정, 김명규, 김지환
	PB-12	Effects of light stress and ocean climate change on the photosynthetic quotient of green-tide forming alga <i>Ulva ohnoi</i> <u>Ba Da Ryu</u> , Ye Rim Kim, Eu Ju Kang, Ju-Hyoung Kim, Young Sik Kim
	PB-13	Marine Algal Flora in the Intertidal Zone of Cheongsan-Island in Spring-Summer Season <u>Hyoung-Seop Park</u> , Nam-Gil Kim
	PB-14	전남 해역별 잇바디돌김(<i>Pyropia dentata</i>) '햇바디1호'의 양식 경제성에 관한 연구 신현정, 이영재, 윤순기, 고소미, 송교정, 이은솔, 김지환
	PB-15	긴잎돌김(<i>Pyropia psedolinearis</i>)과 잇바디돌김(<i>P. dentata</i>)의 패각사상체 성숙 및 채묘 연구 고소미, 윤순기, 이영재, 신현정, 송교정, 김명규, 김지환
	PB-16	Changes in nitrogen content of laver <i>Pyropia yezoensis</i> thalli base on concentration of DIN in aquaculture farm <u>Sang-Yong Lee</u> , Hyun Il Yoo, Young Dae Kim, Mi Sook Hwang
	PB-17	Potential influence of sediment-based diatoms proliferation on the harmful dinoflagellate <i>Cochlodinium polykrikoides</i> in relation to typhoon passage <u>Young Kyun Lim</u> , Seung Ho Baek
	PB-18	Suggestion of an alternative method of mouse bioassay using Bioluminescence Inhibition Assay (BIA) for Paralytic Shellfish Poison(PSP) <u>Kyoungah Lee</u> , Inae Kwak, Hye-Min Park, Young-Ra Kim, Young-Seok Han
	PB-19	잘피숲 조성으로 인한 해양생태계 회복 오지철, 심창명, 김태후, 박용우, 설재원, 하승연 박상연, 김태식

**Poster (11:40–12:40)**

전시동 (1F)

PB. Ecology

11:40–12:40	PB-20	A comparison of carbon and nitrogen contents of different sections of seagrasses from different habitats in Incheon, Korea <u>JeongHwa Hwang</u> , Danbi Park, Nayoung Lee, Ji-Sook Park, Jang K. Kim
	PB-21	Vertical snap-shot profile of macroalgal assemblage during summer in Antarctic subtidal zone <u>Young Wook Ko</u> , Sanghee Kim, Han-Gu Choi
	PB-22	Laboratory culture and field population studies of <i>Meristotheca papulosa</i> in Jeju Island <u>Bo Yeon Kim</u> , Jun-Cheol Ko, Jung Hwa Choi, Han Gil Choi
	PB-23	Experimental Transplant of <i>Grateloupia asiatica</i> (Rhodophyta) for Restoration of Marine Forest <u>Chan Kil Chun</u> , Pyo Il Han, Hyun Je Park and Hyung Geun Kim

Poster (11:40–12:40)

전시동 (1F)

PC. Physiology and Genomics

11:40–12:40	PC-01	붉은갯병균 형질전환을 위한 원형질체 제작 <u>김호진</u> , 장효섭, 김광훈
	PC-02	방사무늬김 (<i>Pyropia yezeonsis</i>)에서 비생물학적 및 생물학적 스트레스 반응의 유전자 발현 분석 <u>김용태</u> , 김광훈
	PC-03	방사무늬김 황백화 과정 중 NADPH-oxidase의 역할과 황백화 내성 품종의 개발 <u>문종선</u> , 김로원, 김광훈
	PC-04	Enhancement of resistance to pathogenic oomycetes by induction of cross-tolerance in <i>Pyropia yezoensis</i> <u>Ji Woong Lee</u> , Ji Hye Park, Gwang Hoon Kim
	PC-05	홍조식물 김파래 (<i>Bangia fuscopurpurea</i>)와 피떡말 (<i>Porphyridium purpureum</i>)의 세포 운동 분석 <u>김수연</u> , 신혜린, 이지웅, 김광훈
	PC-06	홍조식물 <i>Bostrychia moritziana</i> 의 이배체 발달에 있어 ROS의 영향 <u>최유정</u> , 박하나, 최우진, 김광훈
	PC-07	Comparative proteomic analysis of gametophyte and sporophyte in a marine red alga, <i>Pyropia tenera</i> <u>Jin Wook Han</u> , Hancheol Jeon, Hyun-Ju Hwang, <u>Jong Won Han</u>
	PC-08	낭균 (<i>Olpidiopsis</i> spp.)의 여름 숙주로서 김파래 (<i>Bangia fuscopurpurea</i>) 감염 특성 분석 <u>박하나</u> , 김수연, 박문수, 김광훈

Poster (11:40–12:40)

전시동 (1F)

PD. Bioengineering

11:40–12:40	PD-01	Optimization of modified Neuro-2a assay for detection of voltage-gated sodium channel (VGSC) activator (Ciguatoxin) <u>Jong Hee Kim</u> , Youngjin Kim, Won-Hwi Lee, Jeong-in Park, Yuna Ha, Young-Seok Han, Youn-Jung Kim
	PD-02	Suggestion of an alternative method of mouse bioassay using Neuro-2a cell line for detection of paralytic shellfish poisoning (PSP) <u>Youngjin Kim</u> , Jong Hee Kim, Won-Hwi Lee, Jeong-in Park, Yuna Ha, Young-Seok Han, Youn-Jung Kim

Poster (11:40–12:40)

전시동 (1F)

PD. Bioengineering

11:40–12:40	PD-03	(-)-Loliolide isolate from <i>Sargassum horneri</i> alleviates the photoaging of the skin in UVB-exposed HaCaT cells <u>Eui Jeong Han</u> , Ilekuttige Priyan Shanra Fernando, Kirinde Gedara Isuru Sandanuwan Kirindage, Arachchige Maheshika Kumari Jayasinghe, Seo Hee Lee, Yoo Si Won, Kyounghoon Lee, Ginnae Ahn
	PD-04	Apo-9'-fucoxanthinone isolated from <i>Sargassum horneri</i> inhibited the polyethylene-induced oxidative stress in human keratinocytes <u>Eui Jeong Han</u> , Ginnae Ahn
	PD-05	Anti-inflammatory effect of 5-Bromo-3,4-dihydroxybenzaldehyde isolated from <i>Polysiphonia morrowii</i> in TNF- α /IFN- γ -stimulated HaCaT Keratinocytes and TPA-Induced Ear Edema Mice Model <u>Arachchige Maheshika Kumari Jayasinghe</u> , Eui Jeong Han, Ilekuttige Priyan Shanura Fernando, Kirinde Gedara Isuru Sandanuwan Kirindage, Seo Hee Lee, Si Won Yoo, Ginnae Ahn
	PD-06	Phlorofucofuroeckol A isolated from <i>Ecklonia cava</i> improves the inflammation and oxidative stress by activating Nrf2/HO-1 signaling in TNF- α /IFN- γ -stimulated HaCaT keratinocytes <u>Eui Jeong Han</u> , Arachchige Maheshika Kumari Jayasinghe, Ilekuttige Priyan Shanura Fernando, Kirinde Gedara Isuru Sandanuwan Kirindage, Seo Hee Lee, Si Won Yoo, Ginnae Ahn
	PD-07	Fucoidan isolated from <i>Hizikia fusiforme</i> suppresses ultraviolet B-induced photodamage by down-regulating the expressions of matrix metalloproteinases and pro-inflammatory cytokines via inhibiting NF- κ B, AP-1, and MAPK signaling pathways 박정엽, 이현정, 나고경, 이원우
	PD-08	감마선 조사를 통한 모무늬돌김 및 방사무늬돌김 우량계통주 선발 김영희, 이학중, 허진석, 황은경, 황미숙
	PD-09	Anti-obesity effects of Ishophloroglucin A from the brown seaweed <i>Ishige okamurae</i> in both leptin-deficient and leptin-resistant obese mice <u>Nalae Kang</u> , Eun-A Kim, Soeon Ahn, Seong-Yeong Heo, Soo-Jin Heo
	PD-10	Diphlorethohydroxycarmalol, a phlorotanin isolated from <i>Ishige okamurae</i> , induces Ca ²⁺ -dependent glucose uptake in C2C12 cells and zebrafish model <u>Hye-Won Yang</u> , You-Jin Jeon, BoMi Ryu
	PD-11	Anti-fibrotic effect of phlorofucofuroeckol A from <i>Ecklonia cava</i> via attenuation of MAPKs and SMAD 2/3 pathways in TGF- β -induced human tracheal fibroblasts <u>Seong-Yeong Heo</u> , Won-Kyo Jung, Soo-Jin Heo
	PD-12	Anti-inflammatory effect of Tuberatolide B of <i>Sargassum macrocarpum</i> : An <i>in vitro</i> , <i>in vivo</i> , and <i>in silico</i> studies <u>Soo-Jin Heo</u> , Eun-A Kim, Nalae Kang, Areumi Park, Seong-Yeong Heo
	PD-13	Rhodobindin, a possible candidate for virus entry inhibitors as an antiviral agent <u>Jin Wook Han</u> , Hanchool Jeon, Hyun-Ju Hwang, Jong Won Han
	PD-14	Fucosterol from <i>Padina boryana</i> Activated via NF- κ B/MAPK Pathways and Nrf2/HO-1 involvement and protector against PM-induced inflammation in macrophages <u>M.J.M.S. Kurera</u> , D.P. Nagahawatta, H.H.A.C.K. Jayawardhana, R.P.G.S.K. Amarasiri, Hyo-Geun Lee, Sang-Woon Lee, Jun-Geon Je, So-Yeon Park, You-Jin Jeon
	PD-15	Anti-inflammatory activity of Octominin via inhibition of LPS stimulated TLRs/NF- κ B signal transduction of RAW 264.7 macrophages <u>R.P.G.S.K. Amarasiri</u> , D. P. Nagahawatta, H.H.A.C.K. Jayawardhana, M.J.M.S.Kurera, Hyo-Geon Lee, Jun-Geon Je, Sang-Woon Lee, So-Yeon Park, You-Jin Jeon



Poster (11:40–12:40)

전시동 (1F)

PD. Bioengineering

11:40–12:40	PD-16	Water soluble fine dust damaged on an aquatic organism Zebrafish and a protective role of <i>Ishige okamurae</i> <i>in vitro</i> and <i>in vivo</i> <u>Jimin Hyun</u> , Bomi Ryu, Jun-Geon Je, Young-Sang Kim, You-Jin Jeon
	PD-17	Anti-Obesity effects of <i>Grateloupia elliptica</i> , a Red Seaweed, in Mice with High-Fat Diet-Induced Obesity via Suppression of Adipogenic Factors in White Adipose Tissue and Increased Thermogenic Factors in Brown Adipose Tissue <u>Hyo-Geun Lee</u> , Jun-Geon Je, Jun-Ho Heo, Sang-Woon Lee, So-Yeon Park, N.M. Liyanage, D.P. Nagahawatta, H.H.A.C.K. Jayawardhana, R. P. G. S. K. Amarasiri, M.J.M.S. Kurera, Min-Cheol Kang, You-Jin Jeon
	PD-18	Antioxidant, anti-melanogenesis, and photoprotective effects of sulfated polysaccharidess from celluclast-assisted extract of <i>Ecklonia maxima</i> <u>Fengqi Yang</u> , Young-Sang Kim, Jimin Hyun, Jun-Geon Je, N.M. Liyanage, Jun-Ho Heo, You-Jin Jeon
	PD-19	Mitigative Effects of PFF-A Isolated from <i>Ecklonia cava</i> on Pigmentation in a Zebrafish Model and Melanogenesis in B16F10 cells <u>Jun-Geon Je</u> , Yunfei Jiang, Jun-Ho Heo, Xining Li, You-Jin Jeon, Bo-Mi Ryu
	PD-20	동물 플랑크톤의 특이적 섭이를 이용한 <i>Haematococcus pluvialis</i> 우점 배양에 대한 연구 김대균, 홍창희