

ASME session 3 "Syntrophy"

Date and time : July 12th (Thu) 13 : 00 ~ 15 : 20
Room : B3

Conveners:

Taeho Lee, Pusan National University

Chang-Ping Yu, National Taiwan University

Takashi Narihiro, National Institute of Advanced Industrial Science and Technology

Invited speakers:

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| A3-1
13:00- | <p>Syntrophic association between exoelectrogenic bacteria and methanogenic archaea via granular activated carbon in anaerobic digestion</p> <p>Jeong-Hoon Park¹⁾, Hyun-Jin Kang¹⁾, OHee-Deung Park¹⁾
School of Civil, Environmental and Architectural Engineering, Korea University, Seoul, Korea</p> |
| A3-2
13:25- | <p>The selective enrichment of syntrophs, methanogens and exoelectrogens on granular activated carbon in stage anaerobic fluidized bed membrane bioreactors (SAF-MBRs)</p> <p>○Giin-Yu Amy Tan¹⁾, Peixian Yang¹⁾, Muhammad Aslam^{2), 3)}, Jeonghwan Kim²⁾, Po-Heng (Henry) Lee¹⁾
1) Department of Civil and Environmental Engineering, The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong 2) Department of Environmental Engineering, Inha University, Namgu, 100 Inha-ro, Incheon, South Korea
3) Department of Chemical Engineering, COMSATS Institute of Information Technology, Lahore, Pakistan</p> |
| A3-3
13:50- | <p>Isolation of <i>Methanoculleus</i> species from deep-sea potential gas hydrate bearing area and their comparative genomic analyses</p> <p>○Sheng-Chung Chen¹⁾, Chieh-Yin Weng¹⁾, Mei-Fei Chen¹⁾, Mei-Chin Lai¹⁾, Hideyuki Tamaki²⁾, Takashi Narihiro²⁾
1) Department of Life Sciences, National Chung Hsing University, Taichung, Taiwan, R.O.C.
2) Bioproduction Research Institute, National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Japan.</p> |
| A3-4
14:15- | <p>Novel energy conservation strategies and behavior of <i>Pelotomaculum schinkii</i> driving syntrophic propionate catabolism</p> <p>○Catalina / Andrea Patricia Hidalgo Ahumada, Nobu K Masaru, Takashi Narihiro, Hideyuki Tamaki, Wen-Tso Liu, Yoichi Kamagata, Alfons Stams, Hiroyuki Imachi, Diana Z Sousa
Wageningen University and Research</p> |
| A3-5
14:50- | <p><i>Smithella propionica</i> LYP uses a novel fourth pathway for syntrophic propionate degradation</p> <p>○Masaru Konishi Nobu^{1), 2)}, Catalina A Hidalgo³⁾, Takashi Narihiro¹⁾, Wen-Tso Liu²⁾, Alfons JM Stams^{3), 4)}, Neil Q Wofford⁵⁾, Michael J McInerney⁵⁾, Diana Z Sousa³⁾
1) Bioproduction Research Institute, National Institute of Advanced Industrial Science and Technology (AIST), 1-1-1 Higashi, Tsukuba, Ibaraki 305-8566, Japan
2) Department of Civil and Environmental Engineering, University of Illinois, Urbana-Champaign, 205 N. Mathews Ave, Urbana, Illinois 61801, USA 3) Laboratory of Microbiology, Wageningen University & Research, Stippeneng 4, 6708 WE Wageningen, Wageningen, The Netherlands 4) Center of Biological Engineering, University of Minho, Campus de Gualtar, 4710-057 Braga, Portugal 5) Department of Microbiology and Plant Biology, University of Oklahoma, Norman, OK 73019, USA</p> |