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P-S5-0078  Determinants of plant growth promoting *Ochrobactrum lupini* KUDC1013 inducing systemic resistance in tobacco
*Marilyn Sumayo, Choong-Min Ryu, Sa-Youl Ghim*

P-S5-0079  Isolation and characterization of plant growth-promoting rhizobacteria from Dok-do Island as inducers of systemic resistance in pepper against gray leaf spot disease
*Jin-Soo Son, Marilyn Sumayo, Hyun-Uk Kang, Sa-Youl Ghim*

P-S5-0080  Influence of composition of intracellular polyhydroxyalkanoates on PAO metabolism change under strictly aerobic condition
*Tadashi Nittami, Masayuki Mukai, Keisuke Uematsu, Kanji Matsumoto, Masafumi Fujita*

P-S5-0081  Evaluation of the dominant lactic acid bacterial diversity during forage sugarcane fermentation
*Kittima Kongtong, Nipa Choksajjawaiatee, Siwat Sangsritavong, Vethachai Plengvidhya*

P-S5-0082  Caffeine alters sweating responses by changes in sudomotor activity during active heating
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P-S5-0083  Antimicrobial applications of gel-embedded silver nanoparticles synthesized using phytoconstituents
*Chandra Prabha M N, Ahalya N*

P-S5-0084  Biosynthesis of Au nanoplatelets using antioxidant ferulic acid
*Yu-Lim Ko, Sneha Krishnamurthy, Yeoung-Sang Yun*

P-S5-0085  Natural resistance of horse-chestnut (*Aesculus hippocastanum* L.) to horse-chestnut leaf miner larvae (*Cameraria ohridella*) - cause of resistance and multiplication of a resistant genotype
*Helena Vlašinová, Jana Šedivá, Emil Švajdlenka, Petr Babula, Josef Mertelík, Kateřina Kloudová, Ladislav Havel*

P-S5-0086  Expression and characterization of recombinant carbonic anhydrase from *Hydrogenovibrio marinus*
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P-S5-0087  Characterization of recombinant carbonic anhydrase from sea anemone
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P-S5-0088  Gene expression of Anx3 in Pb-treated *Nicotiana tabacum* using a real-time RT-PCR
*Phang Ing Chia, Mohd Afiq Nawi, Nurhayati Razak, Nor Adibah Ismail, Arokiaraj Pappusamy*

P-S5-0089  Structural identification of antifungal lipopeptides secreted from *Bacillus subtilis* HM1
*Hae-Min Kim, Yong-Hoon Lee, Kui-Jae Lee, Jong-Chan Chae*

P-S5-0090  Isolation and characterization of bacteria as a potential agent of *Ganoderma boninense*, the causal agent of basal stem rot of oil palm
*Seung Bum Kim, Jung Woo Seo, Chul Ho Kim*