

**P015** Development of artificial cell penetrating peptide using  
“HIT” technology

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We have developed artificial amino acids (called CDJ monomer) which can be modified appropriately with functional molecules so as to have features such as membrane permeability as well as make it a fluorescently labeled compound. CDJ monomer enables introduction of more than one functional group anywhere in the molecule by selecting its type in accordance with the intended use. An example will be reported of a combination of CDJ monomer and functional molecule which generates a Cell Membrane Permeable compound, which has extremely low cytotoxicity and high transfection efficiency. Our novel Cell Membrane Permeation Technology, “HIT” can be designed and applied in many ways. At this meeting we will introduce some possible applications which have developed by “HIT”.