## S43-2 Mysterious Relationship between Halogen and Metals: Novel Synthesis of Halogenated Compounds Takumichi SUGIHARA<sup>1</sup>

"Halogen" means "an element that produces a salt when it forms a compound with a metal" in Greek. In chemical sense, this also means that halogen-metal bond is strong. Utilizing this chemical nature, organic halogenated compounds are used as starting materials and reagents for construction of carbon-carbon and carbon-heteroatom bonds by reacting with compounds having

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