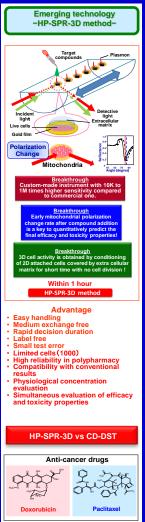
Efficacy and toxicity of extract of sprout-forcing grape seeds for anti-pancreatic cancer by new 1h phenotypic screening

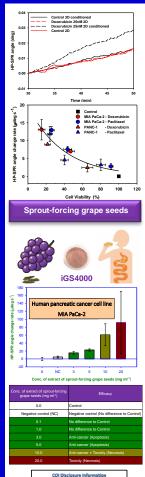
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Summary

We successfully developed a rapid phenotypic screening method (HP-SPR-3D) for reliable prediction of efficacy and toxicity for anti-cancer drugs. This enables the evaluation at physiological conc. within 1h after the drug addition regardless to the pharmaceutical mode of action and indirectly relates to clinical test. We applied HP-SPR-3D to evaluate extract of sprout-forcing grape for anti-pancreatic cancer. The extract of sprout-forcing grape seeds by water (iGS4000) was supplied by Japan Biomedicine Co., Ltd. It was further treated by digestion and absorption model test usina digestion enzymes and others to prepare valid compounds in case of its oral administration and used. Human pancreatic cancer cell Mia PaCa-2 was used. The 2D cultured cells were self-attached to an HP-SPR-3D sensor chip and covered by collagen to activate cells into in vivolike cell status, and monitored for 1h with prepared samples. The extract of sprout-forcing grape seeds showed excellent anti-pancreatic cancer efficacy even compared to doxorubicin and paclitaxel.







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