

F-PDO fragmentation/anticancer drug evaluation using CellPet FT

Cell type: RLUN7-2 (F-PDO; Translational Research Center, Fukushima Medical University)

See website: <https://www.fmu.ac.jp/home/trc/en/contract-research-provision/f-pdo/>

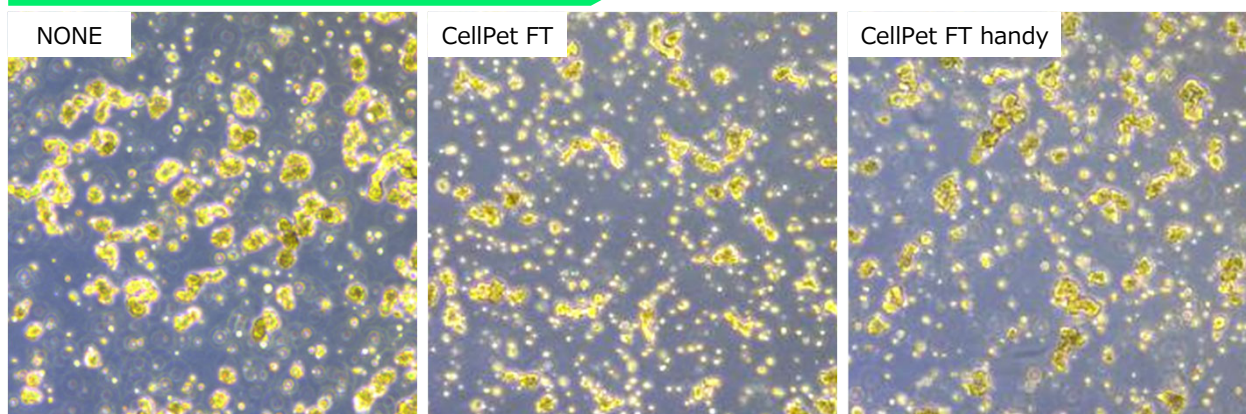
		RLUN7-2 (CTR#30040)		
Fragmentation conditions		NONE	CellPet FT	CellPet FT handy
Culture medium		MammoCult		
Filter size		-	70	70
Dilution ratio		10		
Number of compounds		8		
Processing time(h)		144		
CV Value	0Hours	23.5%	19.5%	20.6%
	After culture	5.2%	5.8%	3.4%
Cell growth	Solvent	1.96	1.52	1.72
	Untreated	1.37	2.11	1.93

Anticancer drug used

- Mitomycin C
- Paclitaxel
- Afatinib
- Lapatinib
- Erlotinib
- Gefitinib
- Osimertinib
- Rociletinib

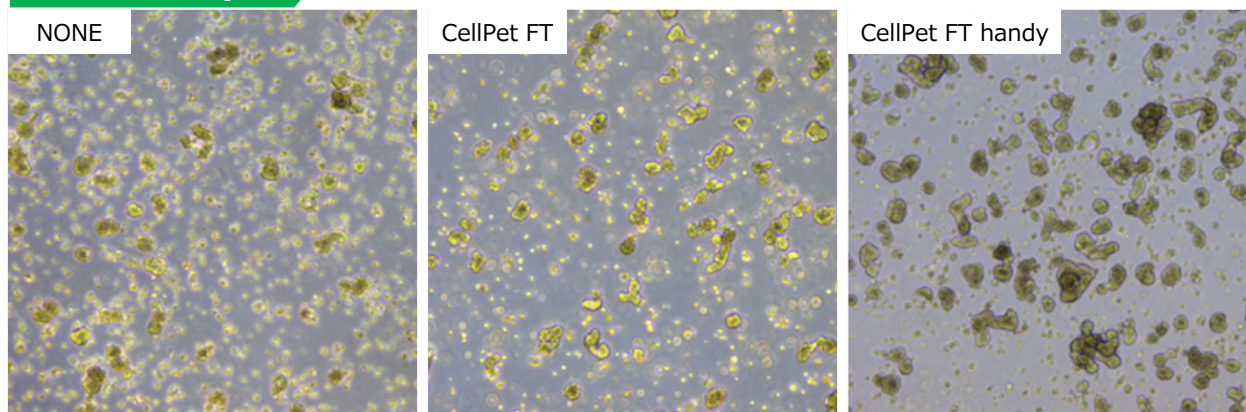
Immediately after processing

70 μ m mesh filter used



After the fragmentation treatment, they were finer than without treatment.
There was no difference in cell mass size between FT and FT handy.

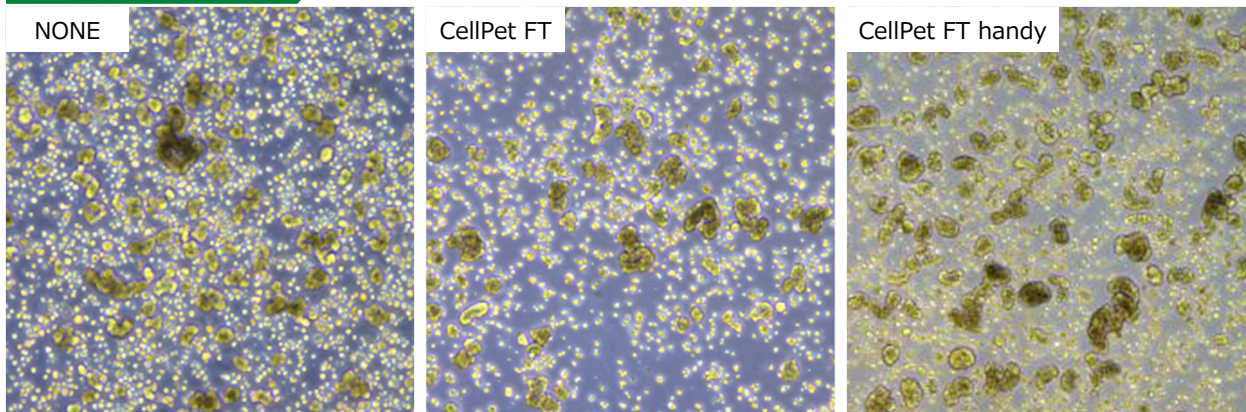
Culture day 3



All cellular quantity were comparable.

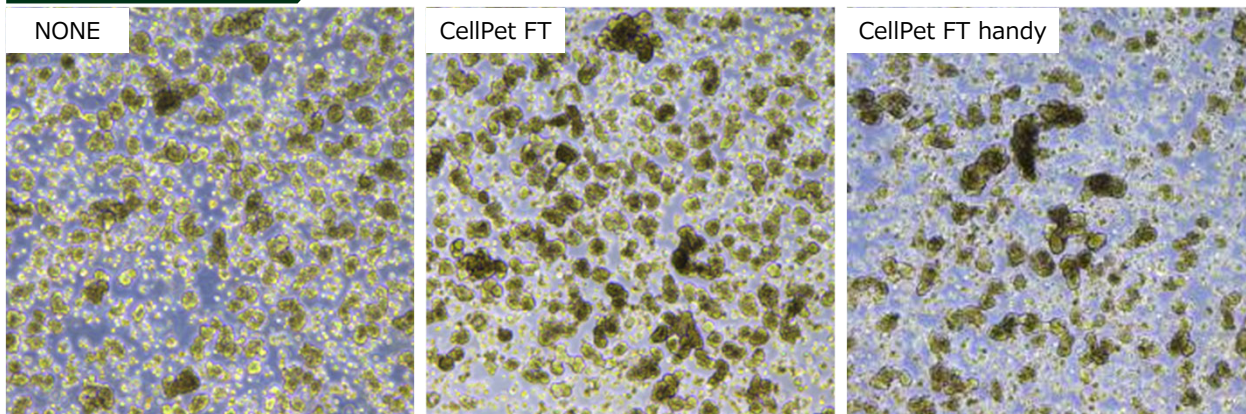
Application Note

Culture day 9



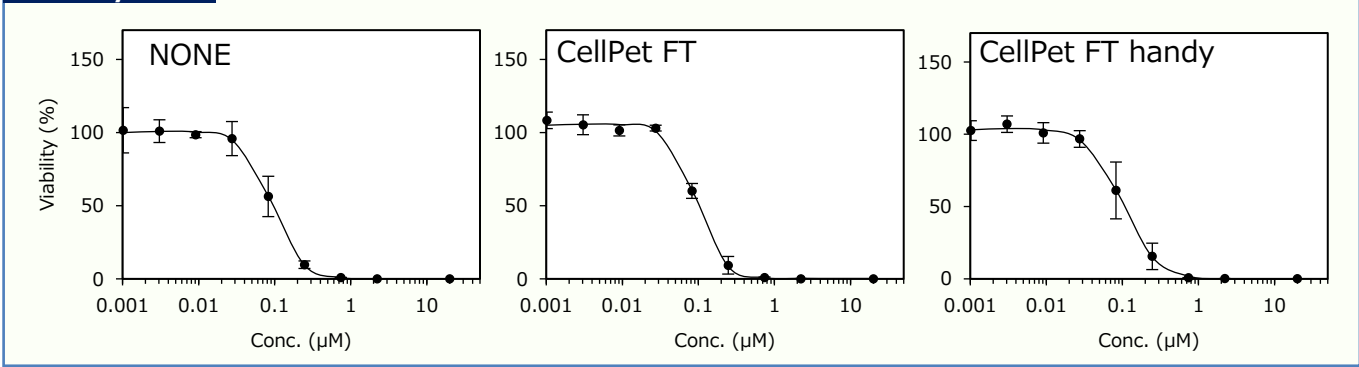
→ Cell quantities were all comparable, and cell mass size differed little.

Culture day 13

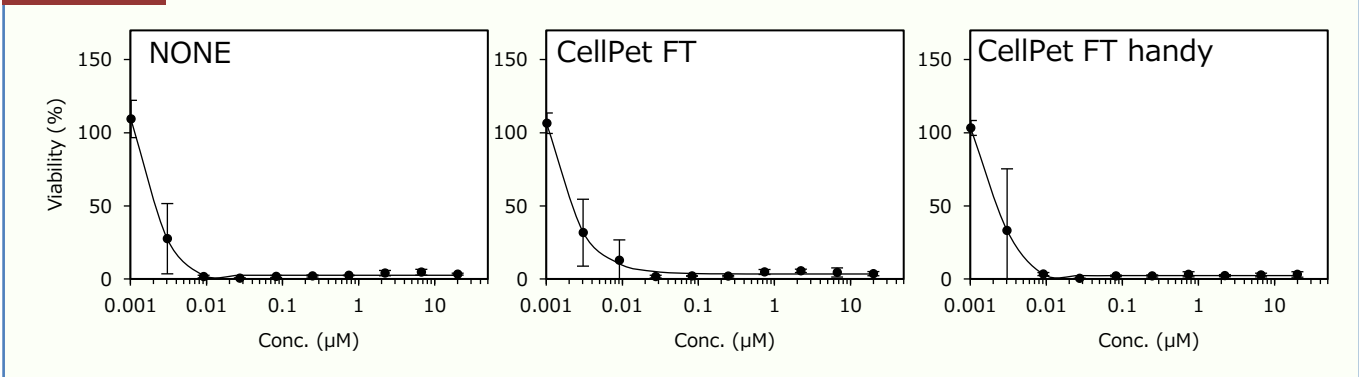


→ Proliferation rate did not differ between untreated, FT, and FT handy. The appearance of the cells also did not differ from that of the untreated cells.

Mitomycin C



Paclitaxel



There was no difference in IC50 values among the 8 anticancer agents used (representative of the 2 cases above) due to differences in the conditions of fragmentation.

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