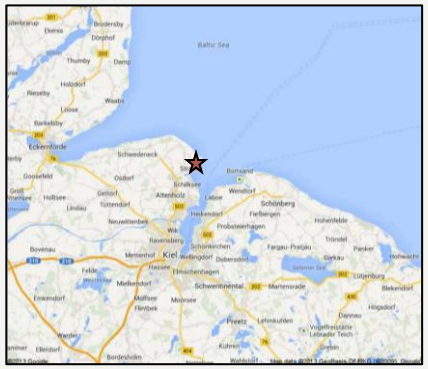
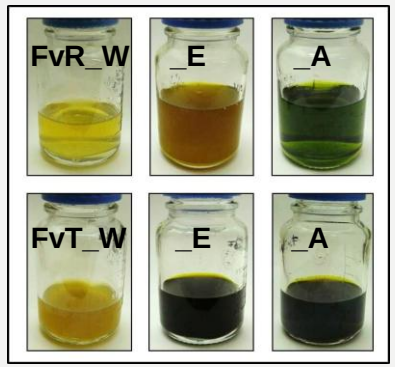
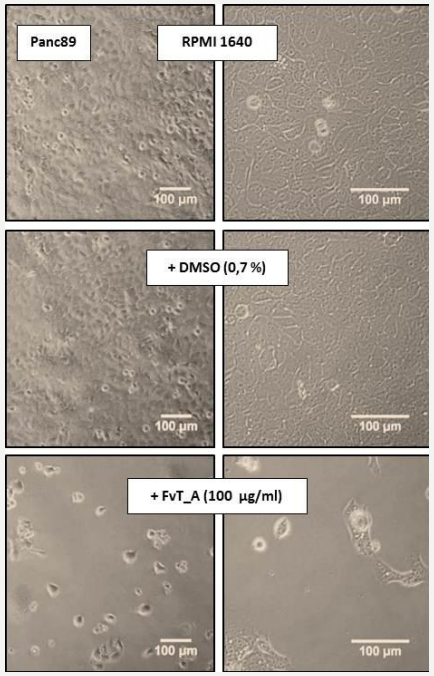
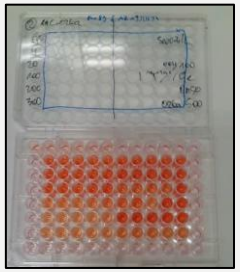
Isolation of polyphenols with anticancer activity from the Baltic Sea brown seaweed *Fucus vesiculosus* using bioassay-guided fractionation*

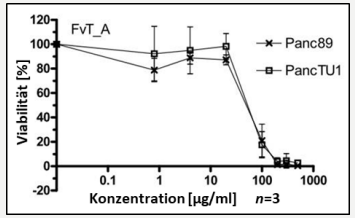




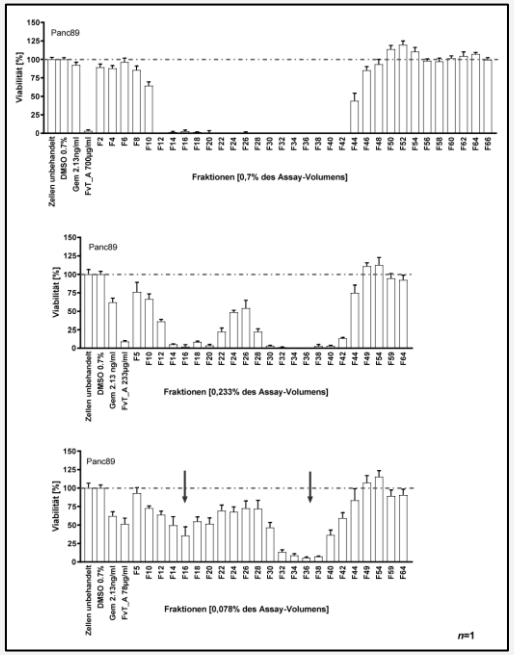
[Foto: K. Hoffmann-Peiker, Planton GmbH]

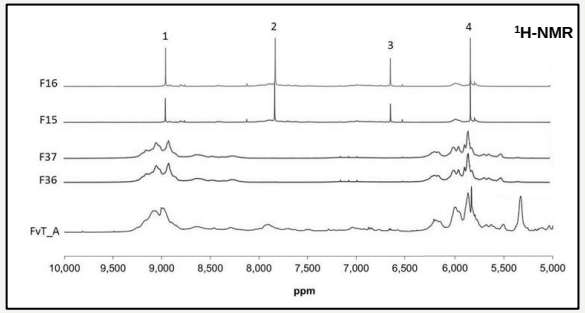






Panc89, PancTU1: pancreatic ductal adenocarcinoma cell lines





Extrakt [c = 100 µg/ml]	Inhibition der Viabilität [%] ± SD (*n* = 3)	
	Panc89	PancTU1
FvR_W	1,8 ± 6,6	7,6 ± 12,8
FvR_E	8,3 ± 1,0 **	-5,8 ± 13,2
FvR_A	21,0 ± 8,3 *	27,9 ± 28,0
FvT_W	50,7 ± 15,9 *	59,7 ± 26,1
FvT_E	38,1 ± 12,2 *	51,4 ± 20,7
FvT_A	80,3 ± 9,4 **	82,6 ± 10,0 **

Rohextrakt/ Fraktionen	IC_{50} [µg/ml]	
	Panc89	PancTU1
FvT_A	71,47 (*n* = 3)	76,96 (*n* = 3)
F15	15,23 (*n* = 3)	18,29 (*n* = 3)
F16	16,35 (*n* = 2)	16,92 (*n* = 2)
F36	45,72 (*n* = 2)	78,95 (*n* = 2)
F37	49,40 (*n* = 1)	81,10 (*n* = 1)

Dipl.-Ing. Marion Zenthoefer · Biomarine Innovation Manager · Technology Transfer · GEOMAR Helmholtz Centre for Ocean Research Kiel · Germany

* Zenthoefer, M. et al. *Journal of Applied Phycology* 2017, Project: Algae Against Cancer 2010-2013, Project Lead: Coastal Research & Management GbR, Kiel, Funding: BMBF KMU-innovativ