



Article

Tridimensional Retinoblastoma Cultures as Vitreous Seeds Models for Live-Cell Imaging of Chemotherapy Penetration

Ursula Winter ¹, Rosario Aschero ², Federico Fuentes ³, Fabian Buontempo ⁴, Santiago Zugbi ⁴, Mariana Sgroi ⁵, Claudia Sampor ⁶, David H. Abramson ⁷, Angel M. Carcaboso ⁸ and Paula Schaiquevich ^{1,4,*}

¹ National Scientific and Technical Research Council (CONICET), Buenos Aires, Argentina, CP1425; winter.u.a@gmail.com

² Pathology Service, Hospital de Pediatría Prof. Dr. JP Garrahan, Buenos Aires, Argentina, CP1425; rosarioaschero@gmail.com

³ Institute of Experimental Medicine (IMEX), National Academy of Medicine, Buenos Aires, Argentina, CP1425; fedefuentes@gmail.com

⁴ Pharmacy, Hospital de Pediatría Prof. Dr. JP Garrahan, Buenos Aires, Argentina, CP1425; fabuontempo@yahoo.com.ar (F.B.); santiagozugbi@gmail.com (S.Z.)

⁵ Ophthalmology Service, Hospital de Pediatría Prof. Dr. JP Garrahan, Buenos Aires, Argentina, CP1425; marianasgroi@gmail.com

⁶ Hematolog-Oncology Service, Hospital de Pediatría Prof. Dr. JP Garrahan, Buenos Aires, Argentina, CP1425; claudiasampor@hotmail.com

⁷ Ophthalmic Oncology Service, Memorial Sloan-Kettering Cancer Center, New York, NY 10065, USA; Abramsod@mskcc.org

⁸ Institut de Recerca Sant Joan de Deu, Barcelona, Spain and Department of Pediatric Hematology and Oncology, Hospital Sant Joan de Deu, Barcelona, Spain, 08950; amontero@fsjd.org

* Correspondence: paulas@conicet.gov.ar; Tel.: +54-11-4122-6000 (ext. 7138)

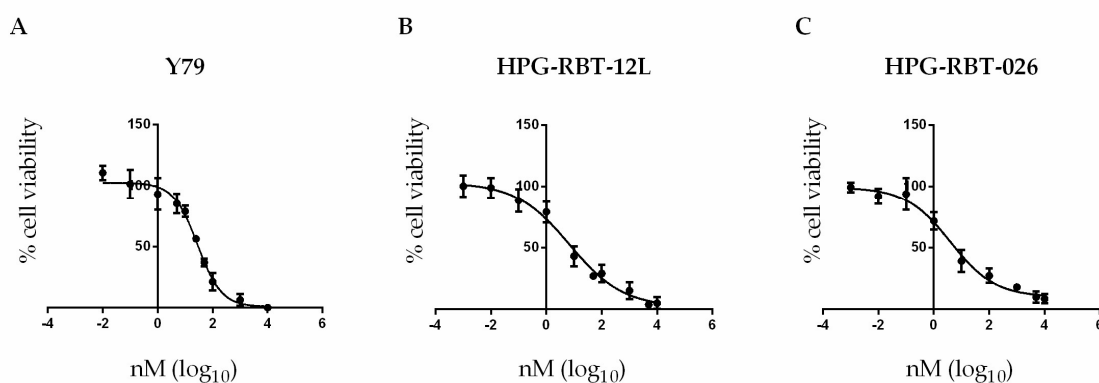


Figure S1. Effect of topotecan on retinoblastoma cell proliferation. Growth inhibition assay performed on Y79 (A), HPG-RBT-12L (B), and HPG-RBT-26 (C) cells after 72-h incubation with different concentrations of topotecan. All symbols represent % of cell proliferation as compared to untreated control cells, expressed as means (SEM) of three independent experiments, each performed in triplicates.

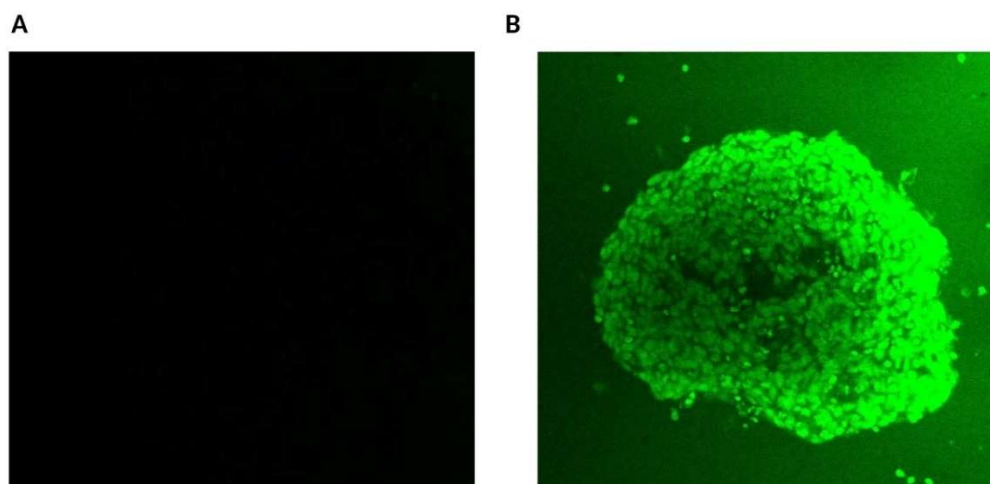


Figure S2. Acquisition of signal (A) before topotecan and (B) after topotecan addition into the culture medium containing large tumorspheres. Images taken at 20× magnification.



© 2019 by the authors. Submitted for possible open access publication under the terms and conditions of the Creative Commons Attribution (CC BY) license (<http://creativecommons.org/licenses/by/4.0/>).