



PrimeSurface® Publication List

- Publications from 2019 to Apr. 2020 (78)
 - PrimeSurface® Oncology Research Publications (26)

www.s-bio.com

S-BIO | A DIVISION OF VAUPELL HOLDINGS INC. | GROUP COMPANY OF SUMITOMO BAKELITE CO., LTD.

S-BIO – 20 EXECUTIVE DRIVE – HUDSON, NH 03051, USA
TEL: +1 603 546 6821 | FAX: +1 603 577 9968



Publications from 2019 to Apr. 2020 (80)

PrimeSurface® Oncology Research Publications (26)

1. M. Zaroni, et al, Anticancer drug discovery using multicellular tumor spheroid models. *Expert Opinion Drug Discovery*, 2019, 14.3: 289-301. [PrimeSurface dish/plate]
<https://www.tandfonline.com/doi/abs/10.1080/17460441.2019.1570129>
2. Y. Matsumoto, et al, ESTIMATION OF RBE VALUES FOR CARBON-ION BEAMS IN THE WIDE DOSE RANGE USING MULTICELLULAR SPHEROIDS. *Radiation Protection Dosimetry*, 2019, 183.1-2: 45-49. [PrimeSurface dish/plate]
<https://academic.oup.com/rpd/article-abstract/183/1-2/45/5281265?redirectedFrom=fulltext>
3. L. Zhao, et al, A 3D Printed Hanging Drop Dropper for Tumor Spheroids Analysis Without Recovery. *Scientific Reports*, 2019, 9.1: 19717. [MS-9096UZ]
<https://www.nature.com/articles/s41598-019-56241-0>
4. Y. Nashimoto, et al, Vascularized cancer on a chip: The effect of perfusion on growth and drug delivery of tumor spheroid. *Biomaterials*, 2020, 229:119547. [MS-9096U]
<https://www.sciencedirect.com/science/article/abs/pii/S0142961219306465?via%3Dihub>
5. J. Ko, et al, Tumor spheroid-on-a-chip: a standardized microfluidic culture platform for investigating tumor angiogenesis. *Lab on a Chip*, 2019, 19.17: 2822-2833. [MS-9096UZ]
<https://pubs.rsc.org/en/content/articlelanding/2019/lc/c9lc00140a>
6. J. Kondo, et al, High-throughput screening in colorectal cancer tissue-originated spheroids. *Cancer Science*, 2019, 110.1: 345-355. [MS-9384U]
https://onlinelibrary.wiley.com/doi/pdf/10.1111/cas.13843?_cfchljschltk=lsZRng.NGjpHDCcg6dPAaDnkEZBKIPMTMcmPwl0EA3w-1635986544-0-gaNycGzNCdE
7. S. Kaneda, et al, Boyden chamber-based compartmentalized tumor spheroid culture system to implement localized anticancer drug treatment. *Biomicrofluidics*, 2019, 13.5: 054111. [PrimeSurface dish/plate]
<https://aip.scitation.org/doi/10.1063/1.5125650>
8. Y. Jimma, et al, Aryl Hydrocarbon Receptor Mediates Cell Proliferation Enhanced by Benzo[a]pyrene in Human Lung Cancer 3D Spheroids. *Cancer Investigation*, 2019, 37.8: 367-375. [MS-9096V]
<https://www.tandfonline.com/doi/abs/10.1080/07357907.2019.1655760?journalCode=icnv20>
9. X. Y. Qin, et al, Inhibition of Stearoyl-CoA Desaturase-1 Activity Suppressed SREBP Signaling in Colon Cancer Cells and Their Spheroid Growth. *Gastrointestinal Disorders*, 2019, 1.1: 191-200. [MS-9096U]
https://www.mdpi.com/2624-5647/1/1/14?_cfchlmanagedtk=zpeci7aZ0Y3oeLhc1KJqq9SgGwxhsrVrogqws.nUyU-1642470370-0-gaNycGzNCiU
10. R. Maruhash, et al, Chrysin enhances anticancer drug-induced toxicity mediated by the reduction of claudin-1 and 11 expression in a spheroid culture model of lung squamous cell carcinoma cells.

www.s-bio.com

S-Bio | A DIVISION OF VAUPELL HOLDINGS INC. | GROUP COMPANY OF SUMITOMO BAKELITE CO., LTD.

S-Bio – 20 EXECUTIVE DRIVE – HUDSON, NH 03051, USA
TEL: +1 603 546 6821 | FAX: +1 603 577 9968

Scientific Reports, 2019, 9.1: 13753. [MS-9096V]
<https://www.nature.com/articles/s41598-019-50276-z.pdf>

11. E. Svirshchevskaya, et al, Characteristics of multicellular tumor spheroids formed by pancreatic cells expressing different adhesion molecules. *Life Sciences*, 2019, 219: 343-352. [PrimeSurface dish/plate]
<https://www.sciencedirect.com/science/article/abs/pii/S0024320519300487?via%3Dihub>
12. W. Masatoshi, et al, Fatty Acid β -Oxidation-dependent and -independent Responses and Tumor Aggressiveness Acquired Under Mild Hypoxia. *Anticancer Research*, 2019, 39.1: 191-200. [MS-9096U]
<https://ar.iarjournals.org/content/39/1/191.short>
13. L. Houdaihed, et al, Dual-Targeted Delivery of Nanoparticles Encapsulating Paclitaxel and Everolimus: a Novel Strategy to Overcome Breast Cancer Receptor Heterogeneity. *Pharmaceutical Research*, 2020, 37.3: 39 [MS-9096U]
<https://link.springer.com/article/10.1007/s11095-019-2684-6>
14. K. Matsumoto, et al, Destruction of tumor mass by gadolinium-loaded nanoparticles irradiated with monochromatic X-rays: Implications for the Auger therapy. *Scientific Reports*, 2019, 9.1: 13275. [MS-9096U]
<https://www.nature.com/articles/s41598-019-49978-1>
15. H. Nasako, et al, Claudin-2 binding peptides, VPDSM and DSMKF, down-regulate claudin-2 expression and anticancer resistance in human lung adenocarcinoma A549 cells. *Biochimica et Biophysica Acta - Molecular Cell Research*, 2020, 1867.4: 118642. [MS-9096U]
<https://www.sciencedirect.com/science/article/pii/S0167488919302502>
16. R. Asai, et al, CD44 standard isoform is involved in maintenance of cancer stem cells of a hepatocellular carcinoma cell line. *Cancer Medicine*, 2019, 8.2: 773–782. [MS-9090X PrimeSurface 90mm Dish]
<https://onlinelibrary.wiley.com/doi/full/10.1002/cam4.1968>
17. T Futami, et al, Identification of a novel oncogenic mutation of FGFR4 in gastric cancer. *Scientific Reports*, 2019, 9.1:14627. [MS-9096U, M or V]
<https://www.nature.com/articles/s41598-019-51217-6.pdf?origin=ppub>
18. X. Y. Qin, et al, Lipid desaturation-associated endoplasmic reticulum stress regulates MYCN gene expression in hepatocellular carcinoma cells. *Cell Death & Disease*, 2020, 11: 66. [MS-9096U]
<https://www.nature.com/articles/s41419-020-2257-y#citeas>
19. N. X. D. Mai, et al, Biodegradable Periodic Mesoporous Organosilica (BPMO) Loaded with Daunorubicin: A Promising Nanoparticle-Based Anticancer Drug. *ChemMedChem*. 2020, 15.7: 593–599. [MS-9096U]
<https://onlinelibrary.wiley.com/doi/full/10.1002/cmdc.201900595>
20. Y. Tambe, et al, Antitumor activity of potent pyruvate dehydrogenase kinase 4 inhibitors from plants in pancreatic cancer. *Molecular Carcinogenesis*, 2019, 58.10:1726-1737. [MS-9096V]
<https://onlinelibrary.wiley.com/doi/abs/10.1002/mc.23045>

www.s-bio.com

S-Bio | A DIVISION OF VAUPELL HOLDINGS INC. | GROUP COMPANY OF SUMITOMO BAKELITE CO., LTD.

S-Bio – 20 EXECUTIVE DRIVE – HUDSON, NH 03051, USA
TEL: +1 603 546 6821 | FAX: +1 603 577 9968

21. Y. Maru, et al, Establishment and characterization of patient-derived organoids from a young patient with cervical clear cell carcinoma. *Cancer Science*, 2019, 110.9: 2992-3005. [MS-9096U]
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6726688/>
22. M. M. Lübtow, et al, In vitro blood-brain-barrier permeability and cytotoxicity of atorvastatin-loaded nanoformulation against glioblastoma in 2D and 3D models. *Molecular Pharmaceutics*, 2020, 17.6: 1835-1847. [MS-9096W]
https://s3-eu-west-1.amazonaws.com/itempdf74155353254prod/10067993/In_Vitro_Blood-Brain-Barrier_Permeability_and_Cytotoxicity_of_Atorvastatin-Loaded_Nanoformulation_Against_Glioblastoma_i_v1.pdf
23. H. J. Ahn, et al, Radiation-Induced CXCL12 Upregulation via Histone Modification at the Promoter in the Tumor Microenvironment of Hepatocellular Carcinoma. *Molecules and Cells*. 2019, 42.7: 530–545. [MS-90350]
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6681868/>
24. M. Kitazawa, et al, Promotion of the Warburg effect is associated with poor benefit from adjuvant chemotherapy in colorectal cancer. *Cancer Science*, 2020, 111.2: 658-666. [MS-9096U, M or V]
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7004516/>
25. R. Kikuchi, et al, Hypercapnic tumor microenvironment confers chemoresistance to lung cancer cells by reprogramming mitochondrial metabolism in vitro. *Free Radical Biology and Medicine*, 2019, 134: 200-214. [MS-9096U]
<https://www.sciencedirect.com/science/article/abs/pii/S0891584918313030>
26. T. Sulea, et al, Structure-based engineering of pH-dependent antibody binding for selective targeting of solid-tumor microenvironment. *MAbs*, 2020, 12.1: 1682866. [MS-9096U, M or V]
<https://www.tandfonline.com/doi/full/10.1080/19420862.2019.1682866>