Kevin Stachelek

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Last updated on 2022-10-25

Education

2018 — PhD Candidate, Cancer Biology and Genomics

University of Southern California, Los Angeles, CA

2015 M.S. Translational Biotechnology

University of Southern California, Los Angeles, CA

2013 B.A. Biology

University of Southern California, Los Angeles, CA

Professional Experience

2018 — Graduate Student Researcher

University of Southern California

PI: David Cobrinik

2013 — 2018 Technician

Children's Hospital Los Angeles

PI: David Cobrinik

2012 — 2013 Undergraduate Research Assistant

University of Southern California

PI: John Tower

Grant Support

NIH-NIDCD F31 DC019853-01: Ruth L. Kirschstein National Research Service Award

hideme

St. Baldrick's hideme

Scholarships and Awards

2013 Undergraduate SOAR

Peer-reviewed Publications

Li, H.-T., Xu, L., Weisenberger, D. J., Li, M., Zhou, W., Peng, C.-C., Stachelek, K., Cobrinik, D., Liang, G. & Berry, J. L. Characterizing DNA methylation signatures of retinoblastoma using aqueous humor liquid biopsy. Nat Commun 13, 5523 (2022).

Cambier, L., Stachelek, K., Triska, M., Jubran, R., Huang, M., Li, W., Zhang, J., Li, J. & Cobrinik, D. Extracellular vesicle-associated repetitive element DNAs as candidate osteosarcoma biomarkers. Sci Rep 11, 94 (2021).

Kaneva, K., Merkurjev, D., Ostrow, D., Ryutov, A., Triska, P., Stachelek, K., Cobrinik, D., Biegel, J. A. & Gai, X. Detection of mitochondrial DNA variants at low level heteroplasmy in pediatric CNS and extra-CNS solid tumors with three different enrichment methods. Mitochondrion 51, 97–103 (2020).

Berry, J. L., Xu, L., Kooi, I., Murphree, A. L., Prabakar, R. K., Reid, M., Stachelek, K., Le, B. H. A., Welter, L., Reiser, B. J., Chévez-Barrios, P., Jubran, R., Lee, T. C., Kim, J. W., Kuhn, P., Cobrinik, D. & Hicks, J. Genomic cfDNA analysis of aqueous humor in retinoblastoma predicts eye salvage: the surrogate tumor biopsy for retinoblastoma. Molecular Cancer Research 16, 1701–1712 (2018).

Singh, H. P., Wang, S., Stachelek, K., Lee, S., Reid, M. W., Thornton, M. E., Craft, C. M., Grubbs, B. H. & Cobrinik, D. Developmental stage-specific proliferation and retinoblastoma genesis in RB-deficient human but not mouse cone precursors. PNAS 115, E9391–E9400 (2018).

Kim, J. W., Jacobsen, B., Zolfaghari, E., Ferrario, A., Chevez-Barrios, P., Berry, J. L., Lee, D. K., Rico, G., Madi, I., Rao, N., Stachelek, K., Wang, L.-C. & Gomer, C. Rabbit model of ocular indirect photodynamic therapy using a retinoblastoma xenograft. Graefe's Archive for Clinical and Experimental Ophthalmology 255, (2017).

Berry, J. L., Xu, L., Murphree, A. L., Krishnan, S., Stachelek, K., Zolfaghari, E., McGovern, K., Lee, T. C., Carlsson, A., Kuhn, P., Kim, J. W., Cobrinik, D. & Hicks, J. Potential of aqueous humor as a surrogate tumor biopsy for retinoblastoma. JAMA Ophthalmology 135, 1221–1230 (2017).

Stachelek, K., Harutyunyan, N., Lee, S., Harutyunyan, A., Kim, J., Xu, L., Berry, J. L., Nagiel, A., Reynolds, C. P., Murphree, A. L., Lee, T. C., Aparicio, J. G. & Cobrinik, D. Non-Synonymous, synonymous, and non-coding nucleotide variants contribute to recurrently altered biological processes during retinoblastoma progression. Submitted.

Shayler, D., Stachelek, K., Lee, S., Bai, J., Aparicio, J. G., Kim, Y., Singh, M., Bay, M., Thornton, M., Craft, C., Grubbs, B., Bonaguidi, M., Singh, H., & Cobrinik, David. Single cell transcriptomics reveals novel photoreceptor trajectories and a cancer-predisposed cone precursor state.

Refereed Presentations

2022 CBDI

BMM

TSRI

Keystone

Software & Technology

2022 SeuratTools

Teaching

2022 Introduction to R: Workshop for incoming PhD students - University of Southern

California

• Led, organized, and co-designed 3-day workshop

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