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EDUCATION:

PUBLICATIONS:

Musheyev, D., Miller, E., Birnbaum, N., Miller, E., Erlich, S., Schuck, A., and Alayev, A. Inhibition of ERK signaling for treatment of ERK positive TNBC, *PLOS One* 2022;3(4):480496.

Alyssa G. Schuck, A. Weisburg, J.H., Esan, H., Robin, E.F., Beresson, A.R., Weitschner, J.R., Lahasky, T., Zuckerbraun, H.L., Babich, H., 2013, Cytotoxic and proapoptotic activities of gallic acid, an inducer of oxidative stress, to human oral cancer HSC-2 cells. *Oxid Antioxid Med Sci* 2:265-274.

Weisburg, J.H., Schuck, A.G., Reiss, S.E., Wolf, B.J., Fertel, S.R., Zuckerbraun, H.L., Babich, H. Ellagic acid, a dietary polyphenol, is selectively cytotoxic to HSC-2 oral carcinoma cells. *Anticancer Research* 2013:1829-36.

Babich, H., Ickow, I.M., Weisburg, J.H., Zuckerbraun, H.L., Schuck, A.G., 2012, Cranberry juice extract, a mild prooxidant with cytotoxic properties independent of reactive oxygen species, *Phytotherapy Research* 26: 1358-65

Babich, H., Schuck, A.G., Weisburg, J.H., Zuckerbraun, H.L., 2011, Research strategies in the study of the pro-oxidant nature of polyphenol nutraceuticals. *Journal of Toxicology*. 2011:467-305.

Weisburg, J., Schuck, A.G., Silverman, M.S., Davis, C.G., Solodokin, L.J., Zuckerbraun, H.L., Babich, H., 2010, Pomegranate extract, a prooxidant with antiproliferative and proapoptotic activities preferentially towards carcinoma cells. *Anticancer Agents in Medicinal Chemistry*. 10: 634-644.

Babich, H., Ackerman, N.J., Burekhovich, F., Zuckerbraun, H.L., Schuck, A.G., 2009, Ginkgo biloba leaf extract induces oxidative stress in carcinoma HSC-2 cells. *Toxicology In Vitro*. 23: 992-9.

Babich, H., Liebling, E.J., Burge, F., Zuckerbraun, H.L., and Schuck, A.G., 2009, Choice of DMEM, formulated with or without pyruvate, plays an important role in assessing the in vitro cytotoxicity of oxidants and prooxidant nutraceuticals. *In Vitro Cell and Developmental Biology* 45:226-33.

Schuck, A.G., Diwa, A. and Belasco, J.G., 2009, RNase E autoregulates synthesis in *Escherichia coli* by binding directly to a stem-loop in the mRNA 5' untranslated region. *Molecular Microbiology*. 72:470-8.

Schuck, A.G., Ausubel, M.B., Zuckerbraun, H.L., and Babich, H., 2008, Theaflavin-3'-digallate, a component of black tea: an inducer of oxidative stress and apoptosis, *Toxicology In Vitro* 22: 598-609.

Babich, H., Gottesman, R.T., Liebling, E.J., and Schuck, A.G., 2008, Theaflavin and theaflavin-3'-gallate, polyphenols in black tea with prooxidant properties. *Basic Clinical Pharmacology and Toxicology* 103: 667-4.

POSTER PRESENTATIONS AND ABSTRACTS:

Schuck, A.G., The life and times of a female scientist, Manhattan High School, NY, January 2019.

Dembitzer, N., Bushee, C., Ghelman, Y., Kandelshein, H., Lamm, D., Marmer, M., and Schuck, A. G., 2018,

Lazaros J., Hasten, E., Schuck, A.G., 2011, Pro-oxidant and proapoptotic activities of olive fruit extract toward oral carcinoma cells, Columbia University Undergraduate Research Symposium (poster presentation).

Lerman, L.T., Cohen, S.S., Schuck, A.G., Weisburg, J., Babich, H., 2010, Correlations of HSC2 carcinoma cells to extracts from pomegranate juice and olive fruit: correlations with their prooxidant activities. Women in Science 6:96-98.

Freilich, A., Canter, A., Haken, O., Schuck, A.G., 2010, Olive Extract's Pro-oxidant and Proapoptotic Effects on Cancer Cells. YU Journal of Undergraduate Research.

Solodkin, L., Canter, A., Freilich, A., Haken, O., Ovits Levy, C.G., Schuck, A.G., Babich, H., 2010, Anticarcinogenic and prooxidant properties of pomegranate juice extract and olive extract. Columbia University Undergraduate Research Symposium (poster presentation).

Schuck, A.G., 2009, Bircas haChammah. Derech HaTorah Journal of Torah and Science: 613. ont 1 (t e)-2 (x)

Gottesman, R., Lebling, E.J., Raviv, T., Schuck, A.G., and Babich, H. 2007. Flavon-3-gallate and theaflavin-3'-gallate, polyphenols in black tea with prooxidant properties. *Women in Science* 3:52-53.

AWARDS

SCW Senior Class Professor Recognition Award for General Studies, May 2023
SCW Senior Class Outstanding Award for General Studies, May 2022
SCW Senior Class Professor Recognition Award for General Studies, 2020 and 2021
Lillian F. and William L. Silber Professor of the Year, May 2
SCW Senior Class Professor Recognition Award for General Studies, May 2018
SCW Senior Class Professor Recognition Award for General Studies, May 2016
SCW Senior Class Professor Recognition Award for General Studies, May 2014
SCW Senior Class Professor Recognition Award for General Studies, May 2013

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:

2011- 2013: Member, Society of In Vitro Biology

INVOLVEMENTS:

2019-present: Member, S. Daniel Abraham Honors Committee
2014-present: Faculty cocoordinator, SURG (Student Undergraduate Research Group)