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**EDUCATION:**

Ph.D., New York University, New York, NY, 2006

Field of study: Microbiology

Thesis dissertation: Direct binding of a regulatory RNA stem-loop to *E. coli* ribonuclease E

Adviser: Joel G. Belasco, Ph.D.

M.S., New York University, New York, NY, 2002

Field of study: Microbiology

B.A., Stern College for Women, Yeshiva University, New York, NY, 1999

Field of study: Biology

A.A., Stern College for Women, Yeshiva University, New York, NY, 1999

**PROFESSIONAL EXPERIENCE:**

**Stern College, Yeshiva University**

*Clinical Assistant Professor*

**New York, N.Y.**

*Fall 2007-current*

**Stern College, Yeshiva University**

*Adjunct Instructor*

**New York, N.Y.**

*Fall 2006-Spring 2007*

**Laboratory, Department of Dermatology, New York University, New York, N.Y.**

*Research lab assistant*

*1999-2000*

**Stern College, Yeshiva University**

*Adjunct Instructor*

**New York, N.Y.**

*Fall 1999*

**PUBLICATIONS:**

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*.

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: 467305.

Weisburg, J., Schuck, A.G., Silverman, M.S., Ovits-Levy, C.G., Solodokin, L.J., Zuckerbraun, H., 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, *Gingko biloba* leaf extract induces oxidative stress in carcinoma HSC-2 cells. *Toxicology In Vitro*. 23: 992-9.

Babich, H., Liebling, E.J., Burger, R.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 Cellular and Developmental Biology*. 45:226-33.

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

Schuck, A.G., Ausubel, M.B., Zuckerbraun, H.L., and Babich, H., 2008, Theaflavin-3,3'-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-3-gallate and theaflavin-3'-gallate, polyphenols in black tea with prooxidant properties. *Basic and Clinical Pharmacology and Toxicology*. 103: 66-74.

#### **POSTER PRESENTATIONS AND ABSTRACTS:**

Reiss, S., Fertel, S., Schuck, A.G., Babich, H., Zuckerbraun, H., 2011, Antiproliferative and proapoptotic properties of ellagic acid to oral carcinoma HSC-2 cells. *Women in Science*, 7.

Schuck, A.G., Cohen, S.S., Lerman, L.T., Haken, O., Weisburg, J.H., 2011, Pomegranate and olive fruit extracts, prooxidants with antiproliferative and proapoptotic activities toward HSC-2 carcinoma cells, *Society of In Vitro Biology* (poster presentation).

Lazaros, J., Hasten, E., Schuck, A.G., 2011, Pro-oxidant and pro-apoptotic 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, Comparative responses of HSC-2 carcinoma cells to extracts from pomegranate juice and olive fruit: correlations with their prooxidant activities. *Women in Science*, 6.

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

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

Schuck, A.G., 2009, Bircas haChammah. *Derech HaTeva, Journal of Torah and Science*. 13: 61-3.

Ruderman, E. Zack, E., and Schuck, A.G., 2009, Antitumorigenic and prooxidant activities of blueberry extract on human oral cancer cells. *Columbia University Undergraduate Science Journal*.

Haken, O., Krausz, E., and Schuck, A.G., 2009, Anticarcinogenic and pro-apoptotic properties of olive extract. *Women in Science* 5:93-94.

Ovits-Levy, C.G., Solodokin, L., Schuck, A.G., and Babich, H., 2009, Potential chemopreventive properties of a pomegranate juice extract. *Women in Science* 5:104-105.

Digilova, A., Raviv, T., and Schuck, A.G., 2008, Synergistic interactions between black tea theaflavins and chemotherapeutics in oral cancer cells. *Women in Science* 4: 85-86.

Grunsiel, N.J., Burekhovich, F., Schuck, A.G., Zuckerbraun, H.L., and Babich, H., 2008, Prooxidant properties of a *Ginkgo biloba* extract. *Women in Science* 4:95-96.

Katz, R., Ruderman, C., Zack, E., Zaghi, S., Schuck, A.G., Zuckerbraun, H.L., and Babich, H., 2008, Induction of apoptosis in human oral squamous carcinoma cells by black tea, blueberry and *Ginkgo biloba* extracts. *Women in Science* 4:101

Digilova, A., Raviv, T., and Schuck, A.G., 2008, Synergistic interactions between black tea theaflavins and chemotherapeutics in oral cancer cells. *Columbia University Undergraduate Science Journal*.

Ausubel, M.B., Schuck, A.G., Zuckerbraun, H.L., and Babich, H., 2007, Comparative

cytotoxicity of theaflavin-3,3'-digallate, a component of black tea, to normal and malignant cells derived from the human oral cavity. *Women in Science* 3:34-35.

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

**MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:**

2011- present: Member, Society of In Vitro Biology

**INVOLVEMENTS:**

2009- present: Mentoring program director, JFEW Science Fellowship Program, Stern College for Women, Yeshiva University