

BIOGRAPHICAL SKETCH

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NAME Voss, Oliver H.		POSITION TITLE Postdoctoral Researcher	
eRA COMMONS USER NAME Voss1			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Lise-Meitner-School, Berlin, Germany	B.S.	1994-1997	Chemistry
University of Applied Sciences, Berlin, Germany	M.S.	1998-2002	Biotechnology
The Ohio State University, Columbus, OH	Ph.D.	2004-2010	Molecular Genetics
The Ohio State University, Columbus, OH	Post-doc	2010-present	Apoptosis

A. Positions and Honors**Positions**

1994 - 1997	B.Sc., Chemistry. Lise-Meitner School, Berlin, Germany.
1998 - 2002	M.Sc., Biotechnology. University of Applied Sciences, Berlin, Germany
2004 - 2010	Ph.D., Molecular Genetics. The Ohio State University, Columbus, Ohio. Advisor: Dr. Andrea Doseff. Thesis: "Regulation of cell fate by caspase-3".
2010-present	Postdoctoral Researcher, The Ohio State University, Columbus, Ohio. Advisor: Dr. Andrea Doseff.

Professional Memberships

2007 - Present	Member of the American Association for the Advancement of Science (AAAS).
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Honors

2006	Travel Award for the best posters in the graduate student category. The 5 th Annual Ohio State University Medical Center and Graduate and Postgraduate Research Day. The Ohio State University, Columbus, OH.
2008	1 st place in the Scott Falkenthal Memorial Graduate Student Colloquium for oral presentations in the graduate student category. The Ohio State University, Columbus, OH.
2008	Travel Award for the best posters in the graduate student category. The 7 th Annual Ohio State University Medical Center and Graduate and Postgraduate Research Day. The Ohio State University, Columbus, OH.
2009	Travel Award for the best posters in the graduate student category. The 8 th Annual Ohio State University Medical Center and Graduate and Postgraduate Research Day. The Ohio State University, Columbus, OH.
2009	Travel Award for the Cell Death meeting. Cold Spring Harbor Laboratory. Cold Spring Harbor, NY.
2009	3 rd place in the 35 th Edward F. Hayes Graduate Research Forum for oral presentations in the graduate student category. The Ohio State University, Columbus, OH.
2009	3 rd place in the Scott Falkenthal Memorial Graduate Student Colloquium for oral presentations in the graduate student category. The Ohio State University, Columbus, OH.
2010	Travel Award for the best posters in the graduate student category. The 9 th Annual Ohio State University Medical Center and Graduate and Postgraduate Research Day. The Ohio State University, Columbus, OH.

- 2010 1st place in the 5th Annual Pulmonary, Allergy, Critical Care and Sleep Research Day for the best posters in the post-doc category. The Ohio State University, Columbus, OH.
- 2010 Travel Award for the best posters in the post-doc category. 5th Annual Dorothy M. Davis Heart & Lung Research Institute Research Day. The Ohio State University, Columbus, OH.

Fellowships

- 2006 - 2008 American Heart Association Pre-doctoral Fellowship. Title: Regulation of human monocyte apoptosis by caspase-3 and small heat shock protein 27.

Teaching

- 2005 Summer Teaching Assistant in Introductory Biology (Bio 101), The Ohio State University, Columbus, OH. Enrollment 600 students.
- 2005 Fall Teaching Assistant in Molecular Genetics (MG 500), The Ohio State University, Columbus, OH. Enrollment 300 students

B. Peer-reviewed publications

- 1 **Voss, O.H.***, Kim, S.*, Wewers, M.D. and Doseff, A.I. (2005). Caspase-3 is a phosphoprotein and associates with PKC δ during spontaneous monocyte apoptosis. *J. Biol. Chem.* **280**: 17371-17379.
- 2 Vargo, M.A., **Voss, O.H.**, Cardounel, A.J., Grotewold, E., and Doseff, A.I. (2006). Apigenin-induced-apoptosis is mediated by the activation of PKC δ and caspases in leukemia cells. *Biochem. Pharmacol.* **72**: 681-692.
- 3 Nicholas, C.*, Batra, S.*, Vargo, M.A., **Voss, O.H.**, Gavrillin M.A., Wewers, M.D. and Doseff, A.I. (2007). Apigenin blocks LPS-induced lethality *in vivo* and pro-inflammatory cytokine expression by inactivating NF- κ B through suppression of p65 phosphorylation. *J. Immunol.* **179**: 7121–7127.
- 4 **Voss, O.H.***, Batra S.*, Kolattukudy S.J., Gonzalez-Mejia M.E., Smith J.B., Doseff A.I. (2007). Binding of caspase-3 prodomain to heat shock protein 27 regulates monocyte apoptosis by inhibiting caspase-3 proteolytic activation. *J. Biol. Chem.*; **282**: 25088-99.
- 5 Pasupuleti, N., Matsuyama, S., **Voss, O.H.**, Doseff, A.I., Song, K., Danielpour, D., and Nagaraj, R H. (2010). The anti-apoptotic function of human α A-crystallin is directly related to its chaperone activity. *Cell Death and Disease* 1, e31, doi:10.1038/cddis.2010.3.
- 6 Wood, K.*, **Voss, O.H.***, Huang, Q., Parihar, A., Metha, N., Batra S., and Doseff, A.I. (2010). The small heat shock protein 27 is a key regulator of CD8⁺CD57⁺-lymphocyte survival. *J. Immunol.* 184: 5582–5588.
- 7 González-Mejia, E.M.*, **Voss, O.H.***, Murnan, E.J., and Doseff, A.I. (2010). Apigenin-induced apoptosis of leukemia cells is mediated by a bimodal and differentially regulated residue-specific phosphorylation of heat-shock protein–27. *Cell Death and Disease* 1, e64, doi:10.1038/cddis.2010.41.

* Shared first authorship

C. Meeting Presentations

(Meetings selected from 52 oral and poster presentation)

- 2006 **Voss, O.H.***, Sharma, A., and Doseff, A.I. Regulation of monocyte life span by the interaction of hsp27 with caspase-3. (Selected for Oral Presentation). Biennial Retreat Molecular Biology and Cancer Genetics Program. Atwood Lake Resort, OH.
- 2006 **Voss, O.H.***, Batra, S., Sharma, A., Kolattukudy, S.J., and Doseff, A.I. Regulation of apoptosis by caspase-3 mediated by hsp27 and PKC δ . (Poster presentation). The 8th Annual Comprehensive Cancer Center Scientific Meeting. The Ohio State University, Columbus, OH.
- 2006 **Voss, O.H.***, Batra S., Sharma, A., Kolattukudy S. J., and Doseff, A.I. Interaction of hsp27 and PKC δ with caspase-3 regulates monocytes life span. (Poster presentation, **award for best poster**). The 5th Annual Ohio State University Medical Center and Graduate and Postgraduate Research Day. The Ohio State

- 2006 **Voss, O.H.**, Batra, S., Kolattukudy, S.J., and Doseff, A.I.* Monocyte life span by the interaction of hsp27 and PKC δ with caspase-3. (Poster presentation). American Thoracic Society International Conference, San Diego, CA.
- 2006 **Voss, O.H.***, Batra S., Kolattukudy S.J., and Doseff, A.I. (2006). Heat shock protein 27 regulates monocytes life span by inhibiting caspase-3 activation. (Poster presentation). 1st Annual Pulmonary, Allergy, Critical Care and Sleep Research Day. The Ohio State University, Columbus, OH.
- 2007 **Voss, O.H.***, Batra, S., Kolattukudy, S.J., and Doseff, A.I. The small heat shock protein 27 regulates monocyte/macrophage apoptosis by inhibiting caspase-3 activation. (Poster presentation). The 9th Comprehensive Cancer Center Scientific Meeting. The Ohio State University, Columbus, OH.
- 2007 **Voss, O.H.**, Batra, S., Kolattukudy, S.J., and Doseff, A.I.*. Heat shock protein 27 regulates monocyte life span by inhibiting caspase-3 activation. (Poster presentation). American Thoracic Society International Conference, San Francisco, CA.
- 2007 **Voss, O.H.***, Malavez, Y., González-Mejia, M.E., Batra, S., Sharma, A., and Doseff, A.I. PKC δ -dependent phosphorylation of caspase-3 and its association with hsp27 regulate monocytes life span. (Selected for Oral presentation). Cell Death Meeting. Cold Spring Harbor Laboratory. Cold Spring Harbor, NY.
- 2007 **Voss, O.H.***, Malavez, Y., Gonzalez-Mejia, M.E., Batra, S., and Doseff, A.I. PKC δ -dependent phosphorylation of caspase-3 and its association with hsp27 regulate monocytes life span. (Selected for Oral presentation). Pulmonary Research Conference. The Ohio State University, Columbus, OH.
- 2008 **Voss, O.H.***, González-Mejia, M.E., Malavez, Y., Batra, S., and Doseff, A.I. Regulation of cell fate by caspase-3 and Protein Kinase C δ and heat shock protein 27. (Poster presentation). The 10th Comprehensive Cancer Center
- 2008 **Voss, O.H.***, González-Mejia, M.E., Malavez, Y., Batra, S., and Doseff, A.I. Cell fate is regulated by the interaction of Protein Kinase C δ , heat shock protein 27 and caspase-3. (Poster presentation, **award for best poster**). The 7th Annual Ohio State University Medical Center and Graduate and Postgraduate Research Day. The Ohio State University, Columbus, OH.
- 2008 **Voss, O.H.***, González-Mejia, M.E., Malavez, Y., Batra, S., and Doseff, A.I. Regulation of cell fate by PKC δ -dependent phosphorylation of caspase-3 and its association with heat shock protein 27. (Selected for Oral Presentation). Scott Falkenthal Memorial Graduate Student Colloquium. The Ohio State University, Columbus, OH.
- 2009 **Voss, O.H.***, Parihar, A., Huang, Q., Porcu, P., Wood, K., and Doseff, A.I. The small heat shock protein 27 regulates CD8⁺CD57⁺-lymphocytes cell fate. (Poster presentation). The 11th Annual Comprehensive Cancer Center Scientific Meeting. The Ohio State University, Columbus, OH.
- 2009 Malavez, Y.*, **Voss, O.H.**, Kamran, H., and Doseff, A.I. Regulation of caspase-3 activity during cell death. (Poster presentation). The 8th Annual OSUMC Research Day. The Ohio State University, Columbus, OH.
- 2009 **Voss, O.H.***, Parihar, A., Huang, Q., Porcu, P., Wood, K., and Doseff, A.I. Regulation of CD8⁺CD57⁺ lymphocytes cell fate by heat shock proteins. (Poster presentation, **award for best poster**). The 8th Annual Ohio State University Medical Center and Graduate and Postgraduate Research Day. The Ohio State University, Columbus, OH
- 2009 **Voss, O.H.***, and Doseff, A.I. Regulation of cell fate by caspase-3, Protein Kinase C δ and heat shock protein 27. (Selected for Oral presentation, **award for 3rd place**). The 35th Edward Hayes Graduate Research Forum. The Ohio State University, Columbus, OH.
- 2009 **Voss, O.H.***, Parihar, A., Huang, Q., Porcu, P., Wood, K., and Doseff, A.I. Heat shock protein 27, a key regulator for cellular life span of cells of the acquired immune system. (Selected for

- Oral Presentation, **award for 3rd place**). Scott Falkenthal Memorial Graduate Student Colloquium. The Ohio State University, Columbus, OH.
- 2009 Malavez, Y., **Voss, O.H.**, Kamran, H., and Doseff, A.I. Modulation of caspase-3 activity by PKC δ . (Poster presentation). OSUCCC Molecular Biology and Cancer Genetics Retreat. Hueston Woods Resort and Conference Center. College Corner, Ohio
- 2009 **Voss, O.H.**, González-Mejia, M.E., and Doseff, A.I.* The small heat shock protein 27 regulates monocyte/macrophage survival and differentiation. (Poster presentation). American Thoracic Society International Conference, San Diego, CA.
- 2009 González-Mejia, M.E.* , **Voss, O.H.**, and Doseff, A.I. Regulation of apoptosis by the complex "caspase-3/ Heat shock protein 27": role of Hsp27 phosphorylation. (Poster presentation). OSUCCC Molecular Biology and Cancer Genetics Retreat. Hueston Woods Resort and Conference Center. College Corner, Ohio.
- 2009 **Voss, O.H.***, Parihar, A., Huang, Q., Porcu, P., Wood, K., and Doseff, A.I. Heat shock protein 27 regulates cellular life span of cells from the innate and adaptive immune system by regulating caspase-3 activation. (Poster presentation). 4th Annual Dorothy M. Davis Heart & Lung Research Institute Research Day. The Ohio State University, Columbus, OH.
- 2009 González-Mejia M.E.* , Murnan E.J., Voss O.H., and Doseff A.I. Apigenin-induced a bimodal phosphorylation of heat shock protein 27 via p38-MAPK and PKC δ regulates mitochondrial depolarization during apoptosis. (Poster presentation). Cell Death Meeting. Cold Spring Harbor Laboratory. Cold Spring Harbor, NY.
- 2009 Malavez, Y.* , **Voss, O.H.**, Kamran, H., and Doseff, A.I. Regulation of caspase-3 activity by PKC δ phosphorylation. (Poster presentation). Cell Death Meeting. Cold Spring Harbor Laboratory. Cold Spring Harbor, NY.
- 2009 **Voss, O.H.***, Parihar, A., Huang, Q., Porcu, P., Wood, K., and Doseff, A.I. Association of caspase-3 with heat shock protein 27 regulates cellular life span of cells from the innate and adaptive immune system. (Poster presentation, **award for best poster**). Cell Death Meeting. Cold Spring Harbor Laboratory. Cold Spring Harbor, NY.
- 2009 **Voss, O.H.***, Parihar, A., Huang, Q., Porcu, P., Wood, K., and Doseff, A.I. Cellular life span of cells from the innate and adaptive immune system is regulated by the association of the heat shock protein 27 with caspase-3. (Poster presentation). 4th Annual Pulmonary, Allergy, Critical Care and Sleep Research Day. The Ohio State University, Columbus, OH.
- 2009 **Voss, O.H.***, Parihar, A., Huang, Q., Porcu, P., Wood, K., and Doseff, A.I. Role of caspase-3 and Hsp27 in the regulation of cellular life span in the immune system. (Selected for Oral presentation). Pulmonary Research Conference. The Ohio State University, Columbus, OH.
- 2010 **Voss, O.H.***, Parihar, A., Huang, Q., Porcu, P., Wood, K., and Doseff, A.I. Determination of cellular life span from cells of the innate and adaptive immune system by heat shock protein 27. (Poster presentation, **award for best poster**). 9th Annual OSUMC Research Day. The Ohio State University, Columbus, OH.
- 2010 **Voss, O.H.***, Parihar, A., Huang, Q., Wood, K.L., and Doseff, A.I. Heat shock protein 27 mediated inhibition of caspase-3 determines cell fate in the innate and adaptive immune system. (Poster presentation, **award for best poster**). 5th Annual Pulmonary, Allergy, Critical Care and Sleep Research Day. The Ohio State University, Columbus, OH.
- 2010 **Voss, O.H.***, Parihar, A., Huang, Q., Wood, K.L., and Doseff, A.I. Heat shock protein 27 determinates cell fate of cells from the innate and adaptive immune system by regulating the activation of caspase-3. (Poster presentation, **award for best poster**). 5th Annual Dorothy M. Davis Heart & Lung Research Institute Research Day. The Ohio State University, Columbus, OH.

* Indicates presenter