

## CURRICULUM VITAE

<b>HATICE GUMUSHAN AKTAS, Ph.D.</b>	
Position	: Assisstant Professor
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Address	: Harran University, Faculty of Arts & Science, Biology Department Osmanbey Campus, Sanliurfa

<b>EDUCATION</b>	
PhD education	: Istanbul University / Institute of Science / Biology Department Thesis: <i>Effect of extracts obtained from various plants and animals on rat prostate cancer</i> (2010) (Supervisor: Prof. Seyhan ALTUN, Ph.D.)
Master education	: Harran University / Institute of Science / Biology Department Thesis: <i>A Study on the effects of adriamycin administered by means of i.p., i.v., s.c. to ehrlich ascites tumor (EAT) bearing mice</i> (2002) (Supervisor: Assoc. Prof. Davut MUSA, Ph.D.)
Bachelor(s) education	: Hacettepe University / Faculty of Science / Biology Department (1998)

<b>ACADEMIC EXPERIENCES</b>	
Assisstant Professor 2011 –	Harran University, Faculty of Arts & Science, Biology Department
Research Assisstant 2011 – 2011	Harran University, Faculty of Arts & Science, Biology Department
Research Assisstant 2003-2011	Istanbul University, Faculty of Science, Biology Department
Research Assisstant 2000-2003	Harran University, Faculty of Arts & Science, Biology Department

<b>PUBLICATIONS</b>	
<b>Articles</b>	
1.	GÜNGÖRMEZ Ç., GUMUSHAN AKTAS H., DİLSİZ N., BORAZAN E. (2019). Novel miRNAs as potential biomarkers in stage II colon cancer: microarray analysis. <i>Molecular Biology Reports</i> , xxx, Doi: 10.1007/s11033-019-04868-7
2.	GUMUSHAN AKTAS H., AKGÜN T. (2018). Naringenin inhibits prostate cancer metastasis by blocking voltage-gated sodium channels. <i>Biomedicine&amp;Pharmacotherapy</i> , 106, 770-775., Doi: 10.1016/j.biopha.2018.07.008
3.	KAPTAN E., SANCAR BAŞ S., SANCAKLI A., GUMUSHAN AKTAS H., BAYRAK B.B., YANARDAĞ R., BOLKENT Ş. (2017). Runt-Related Transcription Factor 2 (Runx2) Is Responsible for Galectin-3 Overexpression in Human Thyroid Carcinoma. <i>Journal of Cellular Biochemistry</i> , 118(11), 3911-3919., Doi: 10.1002/jcb.26043
4.	GUMUSHAN AKTAS H., ALTUN SEYHAN (2016). Effects of <i>Hedera helix</i> L extracts on rat prostate cancer cell proliferation and motility. <i>Oncology Letters</i> , 12(4), 2985-2991., Doi: 10.3892/ol.2016.4941
5.	KASIM V., ŞAHİN O., GUMUSHAN AKTAS H., (2016). Synthesis characterization crystal structure redox reactivity and antiproliferative activity studies of Cu II and Pd II complexes with F CF3 bearing 3 5 di tert butylsalicylaldimines. <i>Polyhedron</i> , 115, 119-

	127., Doi: 10.1016/j.poly.2016.03.061
6.	<b>GUMUSHAN AKTAS H.,</b> ALTUN SEYHAN (2015). In vitro antitumor effects of a new cultivar Gürarşlan of <i>Trigonella foenum-graecum</i> L. <i>African Journal of Traditional Complementary and Alternative Medicines</i> , 12(3), 113-119., Doi: 10.4314/ajtcam.v12i3.14
7.	YILDIRIM S., ALTUN S., <b>GUMUSHAN H.,</b> PATEL A., DJAMGOZ M. (2012). Voltage gated sodium channel activity promotes prostate cancer metastasis in vivo. <i>Cancer Letters</i> , 323(1), 58-61., Doi: 10.1016/j.canlet.2012.03.036
8.	MUSA D., DİLSİZ N., <b>GUMUSHAN H.,</b> ULAKOĞLU G., BİTİREN M. (2004). Antitumor activity of an ethanol extract of <i>Nigella sativa</i> seeds. <i>Biologia</i> , 59(6), 735-740.
9.	<b>GUMUSHAN AKTAS H.,</b> (2018). Antiproliferative and cytotoxic effects of carob extracts on human cervical cancer cells. <i>Journal of Harran University Medical Faculty</i> , 15(3), 199-206.
10.	<b>GUMUSHAN AKTAS H.,</b> ÇAVUŞ C., ALABALIK U. (2017). An immunohistochemical investigation of VGSCs in prostate cancer patients in Sanliurfa. <i>Journal of Harran University Medical Faculty</i> , 14(3), 23-30.
11.	GÜNGÖRMEZ Ç., <b>GUMUSHAN AKTAS H.,</b> BORAZAN E. (2017). Expression of miR-92, miR-21, miR-155, oncogenic miRNAs using qRT-PCR in colon cancer stage II tissues. <i>Journal of Harran University Medical Faculty</i> , 14(3), 31-39.
12.	GÜNGÖRMEZ Ç., <b>GUMUSHAN AKTAS H.,</b> BORAZAN E. (2017). Expression of miR-143, miR-145, miR-192, Tumor Suppressor miRNAs using qPCR in Colon Cancer stage II. <i>Journal of Harran University Medical Faculty</i> , 14(3), 40-45.
13.	<b>GUMUSHAN H.,</b> MUSA DAVUT (2008). Effect of adriamycin administered via different routes on Ehrlich Ascites Tumor cells. <i>IUFS Journal of Biology</i> , 67(1), 49-54.
14.	MUSA D., İRİADAM M., <b>GUMUSHAN H.,</b> BABA Z.F. (2006). Effects of two Turkish medicinal plants <i>Artemisia herba-alba</i> and <i>Teucrium polium</i> on blood glucose levels and other biochemical parameters in rabbits. <i>Journal of Cell and Molecular Biology</i> , 5, 19-24.
<b>Presentations</b>	
1.	<b>GUMUSHAN AKTAS H.,</b> AYAN H. (2018). Effect of Oleuropein on prostate cancer cell proliferation and motility. 5th International Conference on Computational and Experimental Science and Engineering (ICCESEN-2018), 473-473. (Oral presentation)
2.	<b>GUMUSHAN AKTAS H.,</b> ÖDEMİŞ Z., KASIM V. (2018). The effects of some newly synthesized fluorinated acetophenone compounds on the several cancer cell lines. 3rd International Science Symposium (ISS2018), 107-107. (Oral presentation)
3.	<b>GUMUSHAN AKTAS H.</b> (2017). Antiproliferative activity of olive leaf on prostate cancer cells. 4th International Conference on Computational and Experimental Science and Engineering (ICCESEN-2017) (Poster presentation)
4.	GÜNGÖRMEZ Ç., <b>GUMUSHAN AKTAS H.,</b> BORAZAN E. (2017). Expression of miR-92, miR-121, miR-155, Oncogenic miRNAs using qPCR in Colon Cancer Tissues. 1st International Congress on Cancer and Ion Channels (IONCC2017), 91 (Oral presentation)
5.	GÜNGÖRMEZ Ç., <b>GUMUSHAN AKTAS H.,</b> BORAZAN E. (2017). Expression of miR-143, miR-145, miR-192, Tumor Suppressor miRNAs using qPCR in Colon Cancer Tissues. 1st International Congress on Cancer and Ion Channels (IONCC2017), 40. (Oral presentation)
6.	<b>GUMUSHAN AKTAS H.,</b> ÇAVUŞ C., ALABALIK U. (2017). An Immunohistochemical investigation of VGSCs in prostate cancer patients in Sanliurfa. 1st International Congress on Cancer and Ion Channels (IONCC2017), (Poster

	presentation)
7.	<b>GUMUSHAN AKTAS H.</b> (2017). Natural products and ion channels. 1st International Congress on Cancer and Ion Channels (IONCC2017), 29. (Oral presentation)
8.	<b>GUMUSHAN AKTAS H., ALTUN S.</b> (2016). The opposite effects of <i>Rubus idaeus</i> L on prostate cancer cell migration. 3rd International Conference on Computational and Experimental Science and Engineering (ICCESEN-2016) (Poster presentation)
9.	KAPTAN E., SANCAR BAŞ S., SANCAKLI A., <b>GUMUSHAN AKTAS H., BOLKENT Ş.</b> (2016). Runt related transcription factor 2 Runx2 is responsible for galectin 3 overexpression in human thyroid carcinoma. 24th Biennial Congress of the European Association for Cancer Research (Poster presentation)
10.	<b>GUMUSHAN AKTAS H.,</b> (2015). The role of voltage gated sodium channels in cancer and metastasis. The 20th World Congress on Advances in Oncology, and 18th International Symposium on Molecular Medicine, 36, 83-83. (Oral presentation)
11.	<b>GUMUSHAN AKTAS H., AKGÜN T., TÜRKKAN B.</b> (2015). The antiproliferative properties and motility of naringenin and naringenin oxime. 3rd Anticancer Agents Development Congress (Poster presentation)
12.	<b>GUMUSHAN AKTAS H., ALTUN S.</b> (2010). <i>Hedera helix</i> L. against prostate cancer metastasis. 35th FEBS Congress, 277(1), 73-73. (Poster presentation)
13.	<b>GUMUSHAN AKTAS H., ALTUN S., TEKĞÜLER B.</b> (2010). Raspberry for prostate cancer patients healthful or risky. 5th International APOCP Conference, 11(1), 154-154. (Poster presentation)
14.	<b>GUMUSHAN AKTAS H., ALTUN S., AKGÜN T.</b> (2014). Antitumoral effects of various plant extracts on HeLa cells. 22. National Biology Congress (Poster presentation)
15.	<b>GUMUSHAN AKTAS H.,</b> (2014). Semicarbazone and Thiosemicarbazones as ion channel blocker. Ion Channels ve Cancer Symposium (Oral presentation)
16.	BUGAN İ., <b>GUMUSHAN AKTAS H., ALTUN S., KARAGOZ Z., DJAMGOZ M.</b> (2014). Antiproliferative properties of some ion channel blockers. 5th Multidisciplinary Cancer Research Congress (Poster presentation)
16.	ALTUN S., <b>GUMUSHAN AKTAS H., BUGAN İ., KARAGOZ Z., DJAMGOZ M.</b> (2012). Gabapentin as a Voltage-Gated Sodium Channel blocker against prostate cancer metastasis? 21. National Biology Congress, 302-303. (Oral presentation)
17.	ALTUN S., <b>GUMUSHAN H., BUGAN İ., FRASER S., DJAMGOZ M.</b> (2011). Effects of Vinpocetine and Docosahexaenoic Acid on the movement of Mat-LyLu rat prostate cancer cells. 23. National Biochemistry Congress, 36(S2), 111-111. (Oral presentation)
18.	<b>GUMUSHAN H., ALTUN S.</b> (2008). Effects of <i>Hedera helix</i> L leaf extracts prepared with different solvents on rat prostate tumor cells. II Multidisciplinary Cancer Research Symposium (Poster presentation)
19.	<b>GUMUSHAN H., MUSA D., ULAKOGLU G.</b> (2007). The effect of Adriamycin administration in different routes on Ehrlich Ascites Tumor bearing mice. XVII. National Cancer Congress (Poster presentation)
20.	ALTUN S., YILDIRIM Ş., <b>GUMUSHAN H., DJAMGOZ M., BUGAN İ.</b> (2007). Antiproliferative effect of Dunning Prostate Tumor fluid on prostate tumor cells in vitro. XVII. National Cancer Congress (Poster presentation)
21.	<b>GUMUSHAN H., ULAKOGLU G.</b> (2007). Antiproliferative effect of ethanol extract of <i>Hedera helix</i> (ivy) L. on HeLa cells. XVII. National Cancer Congress (Poster presentation)
22.	ALTUN S., <b>GUMUSHAN H., YILDIRIM Ş., DJAMGOZ M.</b> (2007). Effect of Nettle ( <i>Urtica dioica</i> ) root extract on the proliferation of Mat-LyLu rat prostate cancer cells. XVII. National Cancer Congress (Poster presentation)

23.	MUSA D., DİLSİZ N., <b>GUMUSHAN H.</b> , ÖZARDALI H.İ. (2004). Effect of Nigella sativa extract against Adriamycin toxicity. XVII. National Biology Congress, 42-42. (Oral presentation)
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### PROJECTS

1.	The effect of oleuropein on cell movement in rat prostate cancer. Harran University BAP, Manager, 2017 – 2018.
2.	The effects of raspberry extract on prostate cancer cells. Harran University BAP, Manager, 2017 – 2018.
3.	The effects of novel synthesized fluorinated acetophenone compounds on the several cancer cell lines. Harran University BAP, Manager, 2017 – 2018.
4.	The effects of some natural compounds on rat prostate cancer cells: Cell kinetics and Migration. Harran University BAP, Manager, 2015 – 2017.
5.	Effects of RUNX2 transcription factor on galectin 3 expression in some thyroid cancer cell lines. Istanbul University BAP, Researcher, 2013 – 2017.
6.	Investigation of Nav1 7 gene expression profile of some prostate cancer patients living in the Southeast Anatolia Region. Harran University BAP, Manager, 2014 – 2017.
7.	Investigation of possible antitumoral and antimetastatic effects of newly synthesized Semicarbazone and Thiosemicarbazone derivatives on tumor cells with different metastatic properties. Harran University BAP, Manager, 2013 – 2016.
8.	<i>In vivo</i> rat prostate cancer cells and voltage-gated sodium channel expression: novel strategies and molecular approaches to assess metastatic potential. TUBITAK, Researcher, 2011 – 2015.
9.	Sodium channel-mediated role of Vinpocetine and Docosahexaenoic Acid in Mat Lylu rat prostate cancer cells: Cell kinetics and migration. TUBITAK, Scholarship student, 2010 – 2011.
10.	Antitumoral effects of various plant extracts on HeLa cells. Istanbul University BAP, Researcher, 2006-2010.
11.	Investigation of the effect of Na <sup>+</sup> channel blocking agents on rat prostate cells of abnormal character, <i>in vivo</i> . TUBITAK, Student, 2004-2008.

### PATENTS

1.	Antimetastatic activity of Naringenin. (pend for approval) Turkish Patent and Trademark Office, application no: 2018/01529
2.	A Natural compound that inhibits metastasis (pend for approval) Turkish Patent and Trademark Office

### POSTGRADUATE THESIS SUPERVISION

1.	Hıdır SULAK (continue). <i>Effects of olive leaf on Ehrlich Ascites Tumor bearing mice</i> Harran University / Institute of Science / Biology Department / M.Sc.
2.	Hüda AYAN, (2019). <i>The effect of oleuropein on cell movement in rat prostate cancer.</i> Harran University / Institute of Science / Biology Department / M.Sc.
3.	Zübeyde ÖDEMİŞ, (2018). <i>The effects of novel synthesized fluorinated acetophenone compounds on the several cancer cell lines.</i> Harran University / Institute of Science / Biology Department / M.Sc.
4.	Cemal ÇAVUŞ, (2018). <i>An immunohistochemical investigation of voltage gated sodium channels in some prostate cancer patients living in Sanliurfa.</i> Harran University / Institute of Science / Biology Department / M.Sc.

5.	Pelin ÜRKÜT, (2018). <i>Effects of a new synthesized thiosemicarbazone derivative on the proliferation and motility of cancer cells</i> . Harran University / Institute of Science / Biology Department / M.Sc.
6.	Tuba AKGÜN, (2017). <i>Effect of naringenin on rat prostate cancer cells: cell kinetics and migration</i> . Harran University / Institute of Science / Biology Department / M.Sc.
7.	Çiğdem GÜNGÖRMEZ (2018). <i>Investigation of microRNA profiles in stage II colorectal cancer tissue</i> . Harran University / Institute of Science / Biology Department / Ph.D.

<b>LECTURES</b>	
<i>Undergraduate teaching</i>	
1.	Micropreparation
2.	Cytology
3.	Cytology Lab.
4.	Histology
5.	Animal Embriology
6.	Cellular Physiology
<i>Postgraduate teaching</i>	
1.	Advanced Cell Biology
2.	Animal Tissue Culture
3.	Tumor Biology
4.	Signal Transduction in Cancer Cells
5.	Cell Migration
6.	Biomembranes and Transport Mechanisms

<b>CERTIFICATES</b>	
1.	Certificate for animal use in experiments. Istanbul Medipol University 02.07.2018 - 11.07.2018
2.	Basic Stem Cell Techniques and Molecular Biology Course, Flow Cytometry Training, Kocaeli University, 31.03.2009 -31.03.2009
3.	Teaching certificate for primary school. Gazi University, 01.01.1998 -13.07.1998

<b>COURSES</b>	
1.	Basic Stem Cell Techniques and Molecular Biology Course, Kocaeli University, 30.03.2009 -03.04.2009
2.	Chromatography Course, Ankara University, 26.11.2007 -28.11.2007
3.	Fluorescent Insitu Hybridization Applications Course in Biotechnology, İstanbul Technical University & Boğaziçi University, 25.06.2007 -27.06.2007
4.	Basic Principles of Cell Culture Technology and Artificial Organs Course, Ege University, 24.11.2004 -26.11.2004