

## Short Curriculum vitae

<b>Name:</b>	Athanasios D. Velentzas
<b>Nationality:</b>	Greek, European Union (EU) citizen
<b>Occupational address:</b>	Section of Cell Biology & Biophysics, Department of Biology, National and Kapodistrian University of Athens (NKUA), 15701, Athens, Greece
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<b>Current position:</b> (2014- )	Teaching and Research Assistant in the section of Cell Biology and Biophysics, of the Biology Department, NKUA, Greece Scientific specialty: Cell Biology & Electron Microscopy
<b>Education:</b>	<b>2006:</b> Ph.D. Thesis (Department of Biology, NKUA, under the supervision of Prof. Margaritis) <b>2002:</b> Bachelor of Science (B.Sc.), Department of Biology, NKUA, Athens, Greece <b>1995:</b> High School Graduation
<b>Foreign languages:</b>	English
<b>Scholarships:</b>	<b>2002-2006:</b> Hrakleitos postgraduate research program
<b>Teaching:</b> (in the current position)	<ul style="list-style-type: none"> <li>• Essential contribution in the Laboratory Practice and Training of the undergraduate courses “<b>Cell Biology</b>”, “<b>Advanced Cell Biology</b>”, “<b>Developmental Biology and Histology</b>”, “<b>Bioinformatics</b>” and “<b>Current issues on Biology of the Cell</b>” taking hold in the Section of Cell Biology &amp; Biophysics, Department of Biology, NKUA, Athens, Greece</li> <li>• Essential contribution in the Laboratory Practice and Training of the undergraduate course “<b>Modern Topics in Cell Biology</b>” of the Department of Physics, NKUA, Athens, Greece</li> <li>• Teaching organization, and contribution in the courses “<b>Cell Biology</b>”, “<b>Radiations: Impacts on health and applications in Biomedical imaging</b>” and “<b>Methodology of Biomedical research and data analysis</b>” of the Inter-disciplinary (Medical School-Department of Biology) Post-graduate Program “Application of Biology in Medicine”, taking hold in the Section of Cell Biology &amp; Biophysics, Faculty of Biology, NKUA, Athens, Greece</li> <li>• Teaching, organization, and contribution in the courses “<b>Biology I</b>” and “<b>Biology II</b>” of the Post-graduate Program “Teaching of Biology”, taking hold in the Section of Cell Biology &amp; Biophysics, Faculty of Biology, NKUA, Athens, Greece</li> <li>• Teaching in the courses “<b>Principles and methods in Bioinformatics</b>” and “<b>Methodology of research</b>” of the Post-graduate Program “Bioinformatics”, taking hold in the Section of Cell Biology &amp; Biophysics, Faculty of Biology, NKUA, Athens, Greece</li> <li>• Contribution in the supervision of undergraduate and MSc Diploma Theses</li> </ul>

## Research articles

2007

1. Mechanisms of programmed cell death during oogenesis in *Drosophila virilis*. **Velentzas, A. D.**, Nezis, I. P., Stravopodis, D. J., Papassideri, I. S. & Margaritis, L. H. Cell Tissue Res 327, 399-414, <https://doi.org/10.1007/s00441-006-0298-x>
2. Stage-specific regulation of programmed cell death during oogenesis of the medfly *Ceratitis capitata* (Diptera, Tephritidae). **Velentzas, A. D.**, Nezis, I. P., Stravopodis, D. J., Papassideri, I. S. & Margaritis, L. H. Int J Dev Biol 51, 57-66, <https://doi.org/10.1387/ijdb.062164av>
3. Apoptosis and autophagy function cooperatively for the efficacious execution of programmed nurse cell death during *Drosophila virilis* oogenesis. **Velentzas, A. D.**, Nezis, I. P., Stravopodis, D. J., Papassideri, I. S. & Margaritis, L. H. Autophagy 3, 130-132, <https://doi.org/10.4161/auto.3582>

2009

4. The mode of lymphoblastoid cell death in response to gas phase cigarette smoke is dose-dependent. Sdralia, N. D., Patmanidi, A. L., **Velentzas, A. D.**, Margaritis, L. H., Baltatzis, G. E., Hatzinikolaou, D. G. & Stavridou, A. Respir Res 10, 82, <https://doi.org/10.1186/1465-9921-10-82>
5. Cell death during *Drosophila melanogaster* early oogenesis is mediated through autophagy. Nezis\*, I. P., Lamark\*, T., **Velentzas\***, **A. D.**, Rusten, T. E., Bjorkoy, G., Johansen, T., Papassideri, I. S., Stravopodis, D. J., Margaritis, L. H., Stenmark, H. & Brech, A. Autophagy 5, 298-302, <https://doi.org/10.4161/auto.5.3.7454>  
\*Equal contribution

2011

6. Proteasome inhibition induces developmentally deregulated programs of apoptotic and autophagic cell death during *Drosophila melanogaster* oogenesis. Velentzas, P. D., **Velentzas, A. D.**, Mpakou, V. E., Papassideri, I. S., Stravopodis, D. J. & Margaritis, L. H. Cell Biol Int 35, 15-27, <https://doi.org/10.1042/CBI20100191>
7. Oxidative stress-associated shape transformation and membrane proteome remodeling in erythrocytes of end stage renal disease patients on hemodialysis. Antonelou, M. H., Kriebardis, A. G., **Velentzas, A. D.**, Kokkalis, A. C., Georgakopoulou, S. C. & Papassideri, I. S. J Proteomics 74, 2441-2452, <https://doi.org/10.1016/j.jprot.2011.04.009>
8. Complete genome sequence of *Arthrobacter phenanthrenivorans* type strain (Sphe3). Kallimanis, A., Labutti, K. M., Lapidus, A., Clum, A., Lykidis, A., Mavromatis, K., Pagani, I., Liolios, K., Ivanova, N., Goodwin, L., Pitluck, S., Chen, A., Palaniappan, K., Markowitz, V., Bristow, J., **Velentzas, A. D.**, Perisynakis, A., Ouzounis, C. C., Kyrpides, N. C., Koukkou, A. I. & Drinas, C. Standards in genomic sciences 4, 123-130, <https://doi.org/10.4056/sigs.1393494>
9. Programmed cell death of the ovarian nurse cells during oogenesis of the ladybird beetle *Adalia bipunctata* (Coleoptera: Coccinellidae).

Publications:

Publications (cont.):

Mpakou, V. E., **Velentzas, A. D.**, Velentzas, P. D., Margaritis, L. H., Stravopodis, D. J. & Papassideri, I. S. Dev Growth Differ 53, 804-815, <https://doi.org/10.1111/j.1440-169X.2011.01288.x>

10. Complete genome sequence of *Mycobacterium* sp. strain (Spyr1) and reclassification to *Mycobacterium gilvum* Spyr1. Kallimanis, A., Karabika, E., Mavromatis, K., Lapidus, A., Labutti, K. M., Liolios, K., Ivanova, N., Goodwin, L., Woyke, T., **Velentzas, A. D.**, Perisynakis, A., Ouzounis, C. C., Kyripides, N. C., Koukkou, A. I. & Drainas, C. Standards in genomic sciences 5, 144-153, <https://doi.org/10.4056/sigs.2265047>

2012

11. Effects of pre-storage leukoreduction on stored red blood cells signaling: a time-course evaluation from shape to proteome. Antonelou, M. H., Tzounakas, V. L., **Velentzas, A. D.**, Stamoulis, K. E., Kriebardis, A. G. & Papassideri, I. S. J Proteomics 76 Spec No., 220-238, <https://doi.org/10.1016/j.jprot.2012.06.032>

2013

12. Detrimental effects of proteasome inhibition activity in *Drosophila melanogaster*: implication of ER stress, autophagy, and apoptosis. Velentzas, P. D., **Velentzas, A. D.**, Mpakou, V. E., Antonelou, M. H., Margaritis, L. H., Papassideri, I. S. & Stravopodis, D. J. Cell biology and toxicology 29, 13-37, <https://doi.org/10.1007/s10565-012-9235-9>

13. Proteasome, but not autophagy, disruption results in severe eye and wing dysmorphia: a subunit- and regulator-dependent process in *Drosophila*. Velentzas\*, P. D., **Velentzas\*, A. D.**, Pantazi, A. D., Mpakou, V. E., Zervas, C. G., Papassideri, I. S. & Stravopodis, D. J. PLoS One 8, e80530, <https://doi.org/10.1371/journal.pone.0080530>  
\*Equal contribution

2014

14. Blood modifications associated with end stage renal disease duration, progression and cardiovascular mortality: a 3-year follow-up pilot study. Antonelou, M. H., Georgatzakou, H. T., Tzounakas, V. L., **Velentzas, A. D.**, Kokkalis, A. C., Kriebardis, A. G. & Papassideri, I. S. J Proteomics 101, 88-101, <https://doi.org/10.1016/j.jprot.2014.02.009>

15. Viability of *Cladosporium herbarum* spores under 157 nm laser and vacuum ultraviolet irradiation, low temperature (10 K) and vacuum. Sarantopoulou, E., Stefi, A., Kollia, Z., Palles, D., Petrou, P. S., Bourkoulou, A., Koukouvinos, G., **Velentzas, A. D.**, Kakabakos, S. & Cefalas, A. C. Journal of Applied Physics 116, <https://doi.org/10.1063/1.4894621>

2015

16. Dental Stem Cell Migration on Pulp Ceiling Cavities Filled with MTA, Dentin Chips, or Bio-Oss. Lympéri, S., Taraslia, V., Tsatsoulis, I. N., Samara, A., **Velentzas, A. D.**, Agrafioti, A., Anastasiadou, E. & Kontakiotis, E. BioMed research international 2015, 189872,

Publications (cont.):

<https://doi.org/10.1155/2015/189872>

17. 3-BrPA eliminates human bladder cancer cells with highly oncogenic signatures via engagement of specific death programs and perturbation of multiple signaling and metabolic determinants. Konstantakou, E. G., Voutsinas, G. E., **Velentzas, A. D.**, Basogianni, A. S., Paronis, E., Balafas, E., Kostomitsopoulos, N., Syrigos, K. N., Anastasiadou, E. & Stravopodis, D. J. *Molecular cancer* 14, 135, <https://doi.org/10.1186/s12943-015-0399-9>
18. Systematics of *Pseudamnicola* (Gastropoda: Hydrobiidae): description of two new species from insular Greece and redescription of *P. pieperi* Schutt, 1980. Radea, C., Parmakelis, A., **Velentzas, A. D.** & Triantis, K. A. *J Mollus Stud* 82, 67-79, <https://doi.org/10.1093/mollus/eyv031>
19. Global Proteomic Profiling of *Drosophila* Ovary: A High-resolution, Unbiased, Accurate and Multifaceted Analysis. **Velentzas\*, A. D.**, Anagnostopoulos\*, A. K., Velentzas, P. D., Mpakou, V. E., Sagioglou, N. E., Tsioka, M. M., Katarachia, S., Manta, A. K., Konstantakou, E. G., Papassideri, I. S., Tsangaris, G. T. & Stravopodis, D. J. *Cancer genomics & proteomics* 12, 369-384 \*Equal contribution

2016

20. Preparation of Hybrid Triple-Stimuli Responsive Nanogels Based on Poly(L-histidine). Bilalis, P., Varlas, S., Kiafa, A., **Velentzas, A.**, Stravopodis, D. & Iatrou, H. *J Polym Sci Pol Chem* 54, 1278-1288, <https://doi.org/10.1002/pola.27971>
21. Targeted Downregulation of s36 Protein Unearths its Cardinal Role in Chorion Biogenesis and Architecture during *Drosophila melanogaster* Oogenesis. **Velentzas, A. D.**, Velentzas, P. D., Sagioglou, N. E., Konstantakou, E. G., Anagnostopoulos, A. K., Tsioka, M. M., Mpakou, V. E., Kollia, Z., Consoulas, C., Margaritis, L. H., Papassideri, I. S., Tsangaris, G. T., Sarantopoulou, E., Cefalas, A. C. & Stravopodis, D. J. *Sci Rep* 6, 35511, <https://doi.org/10.1038/srep35511>

2017

22. Deep-proteome mapping of WM-266-4 human metastatic melanoma cells: From oncogenic addiction to druggable targets. Konstantakou\*, E. G., **Velentzas\*, A. D.**, Anagnostopoulos\*, A. K., Litou, Z. I., Konstandi, O. A., Giannopoulou, A. F., Anastasiadou, E., Voutsinas, G. E., Tsangaris, G. T. & Stravopodis, D. J. *PLoS One* 12, e0171512, <https://doi.org/10.1371/journal.pone.0171512> \*Equal contribution
23. Pathophysiological aspects of red blood cells in end-stage renal disease patients resistant to recombinant human erythropoietin therapy. Georgatzakou, H. T., Tzounakas, V. L., Kriebardis, A. G., **Velentzas, A. D.**, Papageorgiou, E. G., Voulgaridou, A. I., Kokkalis, A. C., Antonelou, M. H. & Papassideri, I. S. *Eur J Haematol* 98, 590-600, <https://doi.org/10.1111/ejh.12875>
24. Data of sperm-entry inability in *Drosophila melanogaster* ovarian follicles that are depleted of s36 chorionic protein. **Velentzas, A. D.**, Velentzas, P. D., Katarachia, S., Mpakou, V. E., Papassideri, I. S. & Stravopodis, D. J. *Data Brief* 12, 180-183,

Publications (cont.):

<https://doi.org/10.1016/j.dib.2017.03.052>

25. Quantitative and qualitative analysis of regulatory T cells in B cell chronic lymphocytic leukemia. Mpakou, V. E., Ioannidou, H. D., Konsta, E., Vikentiou, M., Spathis, A., Kontsioti, F., Kontos, C. K., **Velentzas, A. D.**, Papageorgiou, S., Vasilatou, D., Gkontopoulos, K., Glezou, I., Stavroulaki, G., Mpazani, E., Kokkori, S., Kyriakou, E., Karakitsos, P., Dimitriadis, G. & Pappa, V. *Leukemia research* 60, 74-81, <https://doi.org/10.1016/j.leukres.2017.07.004>

2018

26. Short-term effects of hemodiafiltration versus conventional hemodialysis on erythrocyte performance. Georgatzakou, H. T., Tzounakas, V. L., Kriebardis, A. G., **Velentzas, A. D.**, Kokkalis, A. C., Antonelou, M. H. & Papassideri, I. S. *Can J Physiol Pharmacol* 96, 249-257, <https://doi.org/10.1139/cjpp-2017-0285>
27. Donor-specific individuality of red blood cell performance during storage is partly a function of serum uric acid levels. Tzounakas, V. L., Karadimas, D. G., Anastasiadi, A. T., Georgatzakou, H. T., Kazepidou, E., Moschovas, D., **Velentzas, A. D.**, Kriebardis, A. G., Zafeiropoulos, N. E., Avgeropoulos, A., Lekka, M., Stamoulis, K. E., Papassideri, I. S. & Antonelou, M. H. *Transfusion* 58, 34-40, <https://doi.org/10.1111/trf.14379>
28. Unraveling the human protein atlas of metastatic melanoma in the course of ultraviolet radiation-derived photo-therapy. Konstantakou\*, E. G., **Velentzas\*, A. D.**, Anagnostopoulos\*, A. K., Giannopoulou, A. F., Anastasiadou, E., Papassideri, I. S., Voutsinas, G. E., Tsangaris, G. T. & Stravopodis, D. J. *J Proteomics* 188, 119-138, <https://doi.org/10.1016/j.jprot.2017.11.015> \*Equal contribution
29. The indispensable contribution of s38 protein to ovarian-eggshell morphogenesis in *Drosophila melanogaster*. **Velentzas, A. D.**, Velentzas, P. D., Katarachia, S. A., Anagnostopoulos, A. K., Sagioglou, N. E., Thanou, E. V., Tsioka, M. M., Mpakou, V. E., Kollia, Z., Gavriil, V. E., Papassideri, I. S., Tsangaris, G. T., Cefalas, A. C., Sarantopoulou, E. & Stravopodis, D. J. *Sci Rep* 8, 16103, <https://doi.org/10.1038/s41598-018-34532-2>

2019

30. Gene-Specific Intron Retention Serves as Molecular Signature that Distinguishes Melanoma from Non-Melanoma Cancer Cells in Greek Patients. Giannopoulou\*, A. F., Konstantakou\*, E. G., **Velentzas\*, A. D.**, Avgeris, S. N., Avgeris, M., Papandreou, N. C., Zoi, I., Filippa, V., Katarachia, S., Lampidonis, A. D., Prombona, A., Syntichaki, P., Piperi, C., Basdra, E. K., Iconomidou, V., Papadavid, E., Anastasiadou, E., Papassideri, I. S., Papavassiliou, A. G., Voutsinas, G. E., Scorilas, A. & Stravopodis, D. J. *Int J Mol Sci* 20, <https://doi.org/10.3390/ijms20040937> \*Equal contribution
31. Recipient's effects on stored red blood cell performance: the case of uremic plasma. Georgatzakou, H. T., Tzounakas, V. L., **Velentzas, A. D.**, Papassideri, I. S., Kokkalis, A. C., Stamoulis, K. E., Kriebardis, A. G. & Antonelou, M. H. *Transfusion* 59, 1900-1906, <https://doi.org/10.1111/trf.15257>
32. Targeting of copper-trafficking chaperones causes gene-specific systemic pathology in *Drosophila melanogaster*: prospective

Publications (cont.):

expansion of mutational landscapes that regulate tumor resistance to cisplatin. Theotoki\*, E. I., **Velentzas\***, **A. D.**, Katarachia, S. A., Papandreou, N. C., Kalavros, N. I., Pasadaki, S. N., Giannopoulou, A. F., Giannios, P., Iconomidou, V. A., Konstantakou, E. G., Anastasiadou, E., Papassideri, I. S. & Stravopodis, D. J. *Biol Open* 8, <https://doi.org/10.1242/bio.046961> \*Equal contribution

2020

33. Exploitation of *Drosophila* Choriogenesis Process as a Model Cellular System for Assessment of Compound Toxicity: the Phloroglucinol Paradigm. Keramaris, K. E., Konstantopoulos, K., Margaritis, L. H., **Velentzas, A. D.**, Papassideri, I. S. & Stravopodis, D. J. *Sci Rep* 10, 242, <https://doi.org/10.1038/s41598-019-57113-3>
34. Effect of Cord Blood Platelet Gel on wound healing capacity of human Mesenchymal Stromal Cells. Mallis, P., Alevrogianni, V., Sarri, P., **Velentzas, A. D.**, Stavropoulos-Giokas, C. & Michalopoulos, E. *Transfus Apher Sci*, 102734, <https://doi.org/10.1016/j.transci.2020.102734>
35. Malignancy Grade-dependent Mapping of Metabolic Landscapes in Human Urothelial Bladder Cancer: Identification of Novel, Diagnostic and Druggable Biomarkers. Iliou, A., Panagiotakis, A., Giannopoulou, A. F., Benaki, D., Kosmopoulou, M., **Velentzas, A. D.**, Tsitsilonis, O. E., Papassideri, I. S., Voutsinas, G. E., Konstantakou, E. G., Gikas, E., Mikros, E., & Stravopodis, D. J. *Int J Mol Sci* 21, <https://doi.org/10.3390/ijms21051892>
36. Proteomic mapping of *Drosophila* transgenic elav.L-GAL4/+ brain as a tool to illuminate neuropathology mechanisms. **Velentzas, A. D.**, Katarachia, S. A., Sagioglou, N. E., Tsioka, M.M Anagnostopoulos, A. K., Mpakou, V. E., Theotoki, E.I., Giannopoulou, A. F., Keramaris, K. E., Papassideri, I. S., Tsangaris, G. Th., & Stravopodis, D. J. *Sci Rep* 10, 5430, <https://doi.org/10.1038/s41598-020-62510-0>
37. Human melanoma-cell metabolic profiling: identification of novel biomarkers indicating metastasis. Kosmopoulou, M., Giannopoulou, A. F., Iliou, A., Benaki, D., Panagiotakis, A., **Velentzas, A. D.**, Konstantakou, E. G., Papassideri, I. S., Mikros\*, E., Stravopodis\*, D.J., & Gikas\*, E. *Int J Mol Sci*. \*Equal contribution. *In press*

Review articles

2016

38. Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Klionsky, D. J. ... **Velentzas A.D.**, ... Zughhaier S.M. *Autophagy* 12, 1-222, <https://doi.org/10.1080/15548627.2015.1100356>

2019

39. Revisiting Histone Deacetylases in Human Tumorigenesis: The Paradigm of Urothelial Bladder Cancer. Giannopoulou\*, A. F., **Velentzas\***, **A. D.**, Konstantakou, E. G., Avgeris, M., Katarachia, S. A., Papandreou, N. C., Kalavros, N. I., Mpakou, V. E., Iconomidou, V., Anastasiadou, E., Kostakis, I. K., Papassideri, I. S., Voutsinas, G. E., Scorilas, A. & Stravopodis, D. J. *Int J Mol Sci* 20, <https://doi.org/10.3390/ijms20061291> \*Equal contribution

<b>Research metrics:</b>	Total Number of Published Articles (2007 - 2020): 39; Total Impact Factor: 144,89; Mean Impact Factor (per article): 3,71; Total Citation Number (Google Scholar): 2.960; h-Index (Google Scholar): 14.
<b>Research Interests:</b>	<ul style="list-style-type: none"> <li>• Role of proteasome in the disruption of cellular signaling integrity</li> <li>• Proteolytic mechanisms and their role in senescence and longevity</li> <li>• Developmental-specific activation of distinct cellular signaling pathways</li> </ul>
<b>Technical experience:</b>	<ul style="list-style-type: none"> <li>• Transmission electron microscopy (TEM), scanning electron microscopy (SEM) and immuno-electron microscopy</li> <li>• Conventional light microscopy (LM), confocal laser scanning microscopy (CLSM) and immuno-fluorescence microscopy (IFM)</li> <li>• Western immuno-blotting</li> <li>• Polymerase Chain Reaction (PCR) technology and its technical variations (i.e.: RT-PCR and real time-PCR reactions)</li> <li>• Cell culturing approaches of mammalian cells and isolated insect-follicles in model growth media (i.e.: Robb's or Schneider's)</li> </ul>
<b>Other Activities:</b>	<ul style="list-style-type: none"> <li>• 53 announcements in International and National conferences</li> <li>• Collaborative researcher in scientific proposals (Thales, Archimedes III)</li> <li>• Translation from the English to Greek Language of the chapters 9, 15, and 18 (in collaboration with Professors D. Stravopodis and L.H. Margaritis) of the scientific textbook «Molecular Biology of the Cell» Bruce Alberts, Alexander Johnson, Julian Lewis, David Morgan, Martin Raff, Keith Roberts &amp; Peter Walter, 1st Greek Edition, «Utopia publications» (ISBN 978-618-51732-9-6).</li> </ul>
<b>Computer skills:</b>	Knowledge of <i>Windows OS</i> , <i>Microsoft Office</i> suite, Image analysis and processing software. Development of multimedia platforms and applications for distant learning of undergraduate and postgraduate courses ( <a href="http://multimedia.biol.uoa.gr">http://multimedia.biol.uoa.gr</a> ). Advanced knowledge of hardware

21-05-2020