

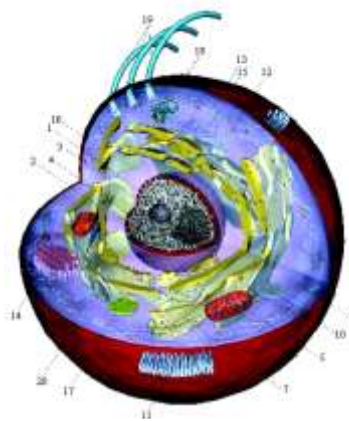
CURRICULUM VITAE



Dimitrios J. Stravopodis, *M.Sc., Ph.D.*

Assistant Professor

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Athens, Greece, 2010



Date of birth: 28 – 01 – 1966.
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Marital status: Married (*no children*).
Martial status: Completed (*12 months of military obligations*).
Scientific speciality: Cellular & Molecular Biology (CMB), M.Sc. – Ph.D. Holder.
Professional occupation: Assistant Professor (Tenured), Biology of the Cell & Development.
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Foreign languages: English (*fluently*).
Computer knowledge: MS-Office: Word, Excel, Power/point, Internet Explorer.

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- ➔ **1977 – 1983:** 1^o – 4^o High school of New Smyrni, Athens, Greece (*Excellent*).
 - ➔ **1983 – 1989:** *B.Sc.:* Department of Biology, Athens, Greece (*Excellent*).
 - ➔ **1989 – 1991:** *M.Sc.:* Institute of Molecular Biology and Biotecnology (IMBB – FORTH) & Department of Biology, Heraklion, Crete, Greece (*Excellent*).
 - ➔ **1991 – 1995:** *Ph.D.:* Institute of Molecular Biology and Biotecnology (IMBB – FORTH) & Department of Biology, Heraklion, Crete, Greece (*Excellent*).
 - ➔ **1995:** Xanthopoulou-Pneumatikou Honoured Award (*Pan-Hellenic*).
 - ➔ **1995 – 1998:** *Post-Doctoral Research:* St. Jude Children’s Research Hospital (SJCRH), Department of Biochemistry, Memphis, Tennessee, USA.
 - ➔ **1997 – 1998:** *Post-Doctoral Fellowship:* Howard Hughes Medical Institute (HHMI), Chevy Chase, Maryland, USA (*Worldwide*).
 - ➔ **1998 – 1999:** Military Obligations at the Greek Army.
 - ➔ **1999 – 2000:** *Post-Doctoral Research:* National Center for Scientific Research (NCSR) “Demokritos”, Institute of Biology (IB), Athens, Greece.
 - ➔ **2000 – 2001:** *Post-Doctoral Research:* University of Athens, Faculty of Biology, Department of Cell Biology & Biophysics, Athens, Greece (*sponsored by IKY {State Scholarships Foundation}*).
 - ➔ **2000 – 2005:** *Technical Inspector of Occupational Health & Safety (OHS-Inspector).* Subspecialty: *Biochemistry*. Ministry of Occupation & Social Protection, Athens, Greece (2003 – 2005: *National Representative in EEC {EU}*).
 - ➔ **2006 – :** *Assistant Professor of Biology of the Cell & Development:* University of Athens, Faculty of Biology, Department of Cell Biology & Biophysics, Athens, Greece.
 - ➔ **2009:** Acquisition of *Tenure* as an *Assistant Professor of Biology of the Cell & Development:* University of Athens, Faculty of Biology, Department of Cell Biology & Biophysics, Athens, Greece.
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- ➔ **1989 – 2010:** Author of **43** prototype *Scientific Articles* (published in high peer-reviewed *International Journals*), (Citation Index: > **2170**), (Total Impact Factor Value: **207.904**; Mean Impact Factor Value: **5.07**).
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- ➔ **1994 – 1995:** Author of the *Ph.D. Thesis*.
- ➔ **2001 – 2004:** Author of the University Textbook: “*Biology of the Cell*”, 2004, *Medical Publications “Litsas”*, (CD & 3D-goggles included).
- ➔ **1999 – 2006:** *Teaching appointment* of special topics in *Cellular & Molecular Biology Courses*: Graduate program (“*Biological Applications in Medicine*”), Faculty of Biology, University of Athens, Athens, Greece.
- ➔ **2000 – 2006:** *Affiliated Professor* in the American College of Greece – *Deree College: Introduction to Biology II* (BI 1101 A1) and *Introduction to Molecular Biology* (BI 1002 A1; *Course Co-ordinator*).
- ➔ **2007:** *Contributor* in the *Translation* from the English to Greek Language of the Scientific Textbook: “*Medical Genetics at a Glance*”, 2003, 1st Edition, Blackwell Science, *Scientific Publications “Parisianou”*, (Pritchard DJ & Korf BR).
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Publications

(*High-Peer Review International Journals*)

Original Articles: 1989 – 2010

- (1). K. E. Keramaris, **D. J. Stravopodis** and L. H. Margaritis, (1991). A structural protein that plays an enzymatic role in the eggshell of *Drosophila melanogaster*. *Cell Biology International (Reports)*, February, Vol. 15, No. 2, pg. 151 – 159.
- (2). S. Vassiliadis, **D. J. Stravopodis**, N. Kyrpides, M. Grigoriou and J. Papamatheakis, (1993). One and two – level regulation patterns affecting NF- κ B mRNA and nuclear NF- κ B activity after treatment with TNF- α , IFN- γ and IL-4. *European Cytokine Network (ECN)*, January – February, Vol. 4, No. 1, pg. 25 – 30.
- (3). S. Vassiliadis, N. Kyrpides, **D. J. Stravopodis**, M. Grigoriou, I. Athanassakis and J. Papamatheakis, (1993). Investigation of intracellular signals generated by γ -interferon and IL-4 leading to the induction of class – II antigen expression. *Mediators of Inflammation*, September, Vol. 2, No. 5, pg. 343 – 348.
- (4). D. Thanos, M. Gregoriou, **D. J. Stravopodis**, K. Liapaki, T. Makatounakis and J. Papamatheakis, (1993). The MHC class – II E β promoter: a complex arrangement of positive and negative elements determines B cell and interferon- γ (IFN- γ) regulated expression. *Nucleic Acids Research (NAR)*, December 25, Vol. 21, No. 25, pg. 6010 – 6019.
- (5). F. W. Quelle, D. Wang, T. Nosaka, W. Thierfelder, **D. J. Stravopodis**, Y. Weinstein and J. N. Ihle, (1996). Erythropoietin induces activation of Stat5 through association with specific tyrosines on the receptor that are not required for a mitogenic response. *Molecular and Cellular Biology (MCB)*, April, Vol. 16, No. 4, pg. 1622 – 1631.

- (6). D. Wang, **D. J. Stravopodis**, S. Teglund, J. Kitazawa and J. N. Ihle, (1996). Naturally occurring dominant negative variants of Stat5. *Molecular and Cellular Biology (MCB)*, November, Vol. 16, No. 11, pg. 6141 – 6148.
- (7). E. Parganas, D. Wang, **D. J. Stravopodis**, D. J. Topham, J. C. Marine, S. Teglund, E. F. Vanin, S. Bodner, O. R. Colamonici, J. M. van Deursen, G. Grosveld and J. N. Ihle, (1998). Jak2 is essential for signaling through a variety of cytokine receptors. *Cell*, May 1, Vol. 93, No. 3, pg. 385 – 395.
- (8)*. S. Teglund, C. McKay, E. Schuetz, J. M. van Deursen, **D. J. Stravopodis**, D. Wang, M. Brown, S. Bodner, G. Grosveld and J. N. Ihle, (1998). Stat5a and Stat5b proteins have essential and nonessential, or redundant, roles in cytokine responses. *Cell*, May 29, Vol. 93, No. 5, pg. 841 – 850. *[Hot Paper: The Scientist, 14 [20]: 16, October 16, 2000].
- (9). **D. J. Stravopodis** and N. C. Kyrpides, (1999). Identification of protein – tyrosine phosphatases in Archaea. *Journal of Molecular Evolution (JME)*, May, Vol. 48, No. 5, pg. 625 – 627.
- (10). J. C. Marine, D. J. Topham, C. McKay, D. Wang, E. Parganas, **D. J. Stravopodis**, A. Yoshimura and J. N. Ihle, (1999). SOCS1 deficiency causes a lymphocyte-dependent perinatal lethality. *Cell*, September 3, Vol. 98, No. 5, pg. 609 – 616.
- (11). D. Wang, R. Moriggl, **D. J. Stravopodis**, N. Carpino, J. C. Marine, S. Teglund, J. Feng and J. N. Ihle, (2000). A small amphipathic α -helical region is required for transcriptional activities and proteasome-dependent turnover of the tyrosine-phosphorylated Stat5. *The EMBO Journal*, February 1, Vol. 19, No. 3, pg. 392 – 399.
- (12). I. P. Nezis, **D. J. Stravopodis**, I. Papassideri, M. R.-Nicoud and L. H. Margaritis, (2000). Stage-specific apoptotic patterns during Drosophila oogenesis. *European Journal of Cell Biology (EJCB)*, September, Vol. 79, No. 9, pg. 610 – 620.
- (13). I. P. Nezis, **D. J. Stravopodis**, I. Papassideri and L. H. Margaritis, (2001). Actin cytoskeleton reorganization of the apoptotic nurse cells during the late developmental stages of oogenesis in Dacus oleae. *Cell Motility and the Cytoskeleton (CMC)*, March, Vol. 48, No. 3, pg. 224 – 233.
- (14). I. P. Nezis, **D. J. Stravopodis**, I. Papassideri, M. R.-Nicoud and L. H. Margaritis, (2002). Dynamics of apoptosis in the ovarian follicle cells during the late stages of Drosophila oogenesis. *Cell and Tissue Research (CTR)*, March, Vol. 307, No. 3, pg. 401 – 409.
- (15). M. H. Antonelou, I. Papassideri, F. J. Karababa, **D. J. Stravopodis**, A. Loutradi and L. H. Margaritis, (2003). Defective organization of the erythroid cell membrane in a novel case of congenital anemia. *Blood Cells, Molecules, and Diseases (BCMD)*, January – February, Vol. 30, No. 1, pg. 43 – 54.
- (16). I. P. Nezis, V. Modes, V. Mpakou, **D. J. Stravopodis**, I. Papassideri, I. Mammali and L. H. Margaritis, (2003). Modes of programmed cell death during Ceratitis capitata oogenesis. *Tissue & Cell (TC)*, April, Vol. 35, No. 2, pg. 113 – 119.
- (17). I. P. Nezis, **D. J. Stravopodis**, I. S. Papassideri, C. Stergiopoulos and L. H. Margaritis, (2005). Morphological irregularities and features of resistance to apoptosis in the dcp-1/pita double mutated egg chambers during Drosophila oogenesis. *Cell Motility and the Cytoskeleton (CMC)*, January, Vol. 60, No. 1, pg. 14 – 23.

- (18). O. A. Konstandi, I. S. Papassideri, **D. J. Stravopodis**, C. A. Kenoutis, Z. Hasan, T. Katsorchis, R. Wever and L. H. Margaritis, (2005). The enzymatic component of *Drosophila melanogaster* chorion is the Pxd peroxidase. *Insect Biochemistry and Molecular Biology (IBMB)*, September, Vol. 35, No. 9, pg. 1043 – 1057.
- (19). T. G. Douroupi, I. S. Papassideri, **D. J. Stravopodis** and L. H. Margaritis, (2005). Molecular cloning and tissue-specific transcriptional regulation of the first peroxidase family member, Udp1, in stinging nettle (*Urtica dioica*). *Gene*, December, Vol. 362, pg. 57 – 69.
- (20). I. P. Nezis, **D. J. Stravopodis**, L. H. Margaritis and I. S. Papassideri, (2006). Follicular atresia during *Dacus oleae* oogenesis. *Journal of Insect Physiology (JIP)*, March, Vol. 52, No. 3, pg. 282 – 290.
- (21). I. P. Nezis, **D. J. Stravopodis**, L. H. Margaritis and I. S. Papassideri, (2006). Programmed cell death of follicular epithelium during the late developmental stages of oogenesis in the fruit flies *Bactrocera oleae* and *Ceratitis capitata* (Diptera, Tephritidae) is mediated by autophagy. *Development, Growth and Differentiation (DGD)*, April, Vol. 48, No. 3, pg. 189 – 198.
- (22). O. A. Konstandi, I. S. Papassideri, **D. J. Stravopodis**, M. H. Antonelou, C. A. Kenoutis, D. C. Stefanidou and L. H. Margaritis, (2006). The dual role of chorion peroxidase in *Bactrocera oleae* chorion assembly. *The International Journal of Developmental Biology (IJDB)*, June, Vol. 50, No. 6, pg. 543 – 552.
- (23)*. I. P. Nezis, **D. J. Stravopodis**, L. H. Margaritis and I. S. Papassideri, (2006). Chromatin condensation of ovarian nurse and follicle cells is regulated independently from DNA fragmentation during *Drosophila* late oogenesis. *Differentiation*, July, Vol. 74, No. 6, pg. 293 – 304. *[Cover Page].
- (24). V. E. Mpakou, I. P. Nezis, **D. J. Stravopodis**, L. H. Margaritis and I. S. Papassideri, (2006). Programmed cell death of the ovarian nurse cells during oogenesis of the silkworm *Bombyx mori*. *Development, Growth and Differentiation (DGD)*, September, Vol. 48, No. 7, pg. 419 – 428.
- (25). I. P. Nezis, **D. J. Stravopodis**, L. H. Margaritis and I. S. Papassideri, (2006). Autophagy is required for the degeneration of the ovarian follicular epithelium in higher Diptera. *Autophagy*, October – December, Vol. 2, No. 4, pg. 297 – 298.
- (26). A. D. Velentzas, I. P. Nezis, **D. J. Stravopodis**, I. S. Papassideri and L. H. Margaritis, (2007). Mechanisms of programmed cell death during oogenesis in *Drosophila virilis*. *Cell and Tissue Research (CTR)*, February, Vol. 327, No. 2, pg. 399 – 414.
- (27). A. D. Velentzas, I. P. Nezis, **D. J. Stravopodis**, I. S. Papassideri and L. H. Margaritis, (2007). Stage-specific regulation of programmed cell death during oogenesis of the medfly *Ceratitis capitata* (Diptera, Tephritidae). *The International Journal of Developmental Biology (IJDB)*, Vol. 51, No. 1, pg. 57 – 66.
- (28). A. D. Velentzas, I. P. Nezis, **D. J. Stravopodis**, I. S. Papassideri and L. H. Margaritis, (2007). Apoptosis and autophagy function cooperatively for the efficacious execution of programmed nurse cell death during *Drosophila virilis* oogenesis. *Autophagy*, March – April, Vol. 3, No. 2, pg. 130 – 132.
- (29). V. E. Mpakou, I. P. Nezis, **D. J. Stravopodis**, L. H. Margaritis and I. S. Papassideri, (2008). Different modes of programmed cell death during

- oogenesis of the silkmoth *Bombyx mori*. *Autophagy*, January – February, Vol. 4, No. 1, pg. 97 – 100.
- (30). A. D. Lampidonis, A. Argyrokastritis, **D. J. Stravopodis**, G. E. Voutsinas, T. G. Ntouroupi, L. H. Margaritis, I. Bizelis and E. Rogdakis, (2008). Cloning and functional characterization of the ovine Hormone Sensitive Lipase (HSL) full-length cDNAs: An integrated approach. *Gene*, June, Vol. 416, No. 1 – 2, pg. 30 – 43.
- (31). **D. J. Stravopodis**, A. Z. Zapheiroopoulos, G. E. Voutsinas, L. H. Margaritis and I. S. Papassideri, (2008). A PCR-based integrated protocol for the structural analysis of the 13th exon of the human β -myosin heavy chain gene (MYH7): Development of a diagnostic tool for HCM disease. *Experimental and Molecular Pathology (EMP)*, June, Vol. 84, No. 3, pg. 245 – 250.
- (32). A. D. Lampidonis, **D. J. Stravopodis**, G. E. Voutsinas, N. Messini-Nikolaki, G. C. Stefos, L. H. Margaritis, A. Argyrokastritis, I. Bizelis and E. Rogdakis, (2008). Cloning and functional characterization of the 5' regulatory region of ovine Hormone Sensitive Lipase (HSL) gene. *Gene*, December, Vol. 427, No. 1 – 2, pg. 65 – 79.
- (33). **D. J. Stravopodis**, P. K. Karkoulis, E. G. Konstantakou, S. Melachroinou, A. D. Lampidonis, D. Anastasiou, S. Kachrilas, N. Messini-Nikolaki, I. S. Papassideri, G. Aravantinos, L. H. Margaritis and G. E. Voutsinas, (2009). Grade-dependent effects on cell cycle progression and apoptosis in response to doxorubicin in human bladder cancer cell lines. *International Journal of Oncology (IJO)*, January, Vol. 34, No. 1, pg. 137 – 160.
- (34). I. P. Nezis, T. Lamark, A. D. Velentzas, T. E. Rusten, G. Bjorkoy, T. Johansen, I. S. Papassideri, **D. J. Stravopodis**, L. H. Margaritis, H. Stenmark and A. Brech, (2009). Cell death during *Drosophila melanogaster* early oogenesis is mediated through autophagy. *Autophagy*, April, Vol. 5, No. 3, pg. 298 – 302.
- (35). E. G. Konstantakou, G. E. Voutsinas, P. K. Karkoulis, G. Aravantinos, L. H. Margaritis and **D. J. Stravopodis**, (2009). Human bladder cancer cell lines undergo cisplatin-induced apoptosis that is associated with p53-dependent and p53-independent responses. *International Journal of Oncology (IJO)*, August, Vol. 35, No. 8, pg. 401 – 416.
- (36). **D. J. Stravopodis**, P. K. Karkoulis, E. G. Konstantakou, S. Melachroinou, A. Thanasopoulou, G. Aravantinos, L. H. Margaritis, E. Anastasiadou and G. E. Voutsinas, (2010). Thymidylate synthase inhibition induces p53-dependent and p53-independent apoptotic responses in human urinary bladder cancer cells. *Journal of Cancer Research and Clinical Oncology (JCRCO)*. In Press.
- (37). P. D. Velentzas, A. D. Velentzas, V. E. Mpakou, I. S. Papassideri, **D. J. Stravopodis*** and L. H. Margaritis*, (2010). Proteasome inhibition induces developmentally deregulated programs of apoptotic and autophagic cell death during *Drosophila melanogaster* oogenesis. *Cell Biology International (CBI)*. In Press. *[Equal Authors].
- (38). P. K. Karkoulis, **D. J. Stravopodis**, L. H. Margaritis and G. E. Voutsinas, (2010). 17-Allylamino-17-demethoxygeldanamycin induces downregulation of critical Hsp90 protein clients and results in cell cycle arrest and apoptosis of human urinary bladder cancer cells. *BMC Cancer*. In Press.

Review Articles (International Journals)

- (39). J. N. Ihle, **D. J. Stravopodis**, E. Parganas, W. Thierfelder, J. Feng, D. Wang and S. Teglund, (1998). Review. The roles of Jaks and Stats in cytokine signaling. *The Cancer Journal from Scientific American*, Special Supplement, May, Vol. 4, Supplement 1, pg. S84 – S91.
- (40). J. N. Ihle, W. Thierfelder, S. Teglund, **D. J. Stravopodis**, D. Wang, J. Feng and E. Parganas, (1998). Review. Signaling by the cytokine receptor superfamily. *Annals of the New York Academy of Sciences (Ann. N. Y. Acad. Sci.)*, December, Vol. 865, pg. 1 – 9.
- (41). **D. J. Stravopodis***, L. H. Margaritis and G. E. Voutsinas*, (2007). Review. Drug-mediated targeted disruption of multiple protein activities through functional inhibition of the Hsp90 chaperone complex. *Current Medicinal Chemistry (CMC)*, December, Vol. 14, No. 29, pg. 3122 – 3138. *[Co-corresponding Authors].
- (42). G. E. Voutsinas and **D. J. Stravopodis**, (2009). Review. Molecular targeting and gene delivery in bladder cancer therapy. *Journal of BUON (J. BUON)*, September, Vol. 14, Suppl. 1, S69 – S78.

Review Articles (National {Greek} Journals)

- (43)*. G. E. Voutsinas, R. Vrtel, E. Anastasiadou and **D. J. Stravopodis**, (2008). Review. Molecular genetic diagnosis of the Tuberous Sclerosis Complex. *BioHealth (BIO)*, September – October, Vol. 28, pg. 24 – 29. *[English Version].

[Not including the **43 Posters** in National & International Conferences].

Research Grants (2000 – 2010)

- «**HERAKLEITOS**» 2003 – 2006.
- «**PYTHAGORAS I**» 2004 – 2006.
- «**PYTHAGORAS II**» 2005 – 2007.
- «**PENED - 2003**» 2006 – 2009.
- «**KESY**» 2006 – 2008.
- «**KAPODISTRIAS**» 2006 – 2007. *Co-ordinator*.
- «**HELLENIC SOCIETY OF MEDICAL ONCOLOGISTS (HESMO)**» 2007 – 2008.
- «**KAPODISTRIAS**» 2009 – 2010. *Co-ordinator*.
- «**HELLENIC SOCIETY OF MEDICAL ONCOLOGISTS (HESMO)**» 2009 – 2010. *Co-ordinator*.
- «**EMPEIRIKEION FOUNDATION**» 2009 – 2010. *Co-ordinator*.

Current Research Collaborations

- National Center for Scientific Research (NCSR) “Demokritos”, Institute of Biology (IB), Athens, Greece: Dr. Gerassimos Voutsinas (B'-level Principal Investigator).
- Academy of Athens – Foundation of BioMedical Research, Center of Basic Research, Athens, Greece:
 - Dr. Ema Anastasiadou (D'-level Principal Investigator),

- *Dr. George Tsangaris (A'-level Faculty Member),*
 - *Dr. Christos Zervas (C'-level Principal Investigator).*
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Research Interests and Current Activities

- Unravelling the cellular mechanisms and signalling pathways that control the responses of human urinary bladder cancer cells, of distinct *p53* genetic background (i.e. “p53^{+/+}” or “p53^{-/-}”) and Akt functional status (i.e. “constitutive” or “inducible” activation), to the cytotoxic activities of conventional and targeting chemotherapeutic drugs. The former group contains Doxorubicin, Cisplatin, 5-Fluorouracil and Taxol, while the latter one includes 3-Bromopyruvate (glycolytic inhibitor), Bortezomib/Velcade (proteasome inhibitor) and Geldanamycin, together with its structural analogues 17-AAG and 17-DMAG (Hsp90 inhibitors). Having established a strong and fruitful collaboration with the research group of Dr. G.E. Voutsinas (Principal Investigator, Level B', Institute of Biology, NCSR “Demokritos”, Athens, Greece), our common central direction is the molecular elucidation and characterization of critical cell death programs, giving specific emphasis to “apoptosis”, “autophagy”, and “programmed necrosis”, and their related signalling networks, which determine not only the “poisonous” action of each drug, but, also, the presumable acquisition of resistance against the given drug or pharmaceutical regimen.
 - Illumination of the regulatory processes implicated in *Drosophila melanogaster* oogenesis, with special attention in the activation of programmed cell death (“apoptosis” and “autophagy”) of the nurse cell cluster during middle and late oogenesis of developing follicles. Using modern transgenic technology tools, such as the GAL4/UAS binary genetic system, and through the RNAi cellular pathway, a number of genes and their cognate protein products are either over-expressed or downregulated (via RNAi) in a tissue-specific fashion, revealing their functional importance, or redundant (or, alternatively, non-essential) role, in various organs and systems, such as the compound eye, the wing, the ovary and the nervous system of the fly.
 - Moreover, *Drosophila melanogaster* oogenesis has been currently utilized by our laboratory as a model biological system for the *in vivo* assessment of the “apoptotic” and “autophagic” potential of a number of stress-inducing factors, including, among others, the chemotherapeutic reagents Doxorubicin (topoisomerase-II inhibitor) and Bortezomib/Velcade (proteasome inhibitor), as well as the Ultraviolet (UV) radiation with wavelength characteristics of 254 nm (UVC) and 312 nm (UVB).
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14 – 09 – 2010