

References

- Avola, R., Graziano, A. C. E., Pannuzzo, G., Bonina, F., & Cardile, V. (2019). Hydroxytyrosol from olive fruits prevents blue-light-induced damage in human keratinocytes and fibroblasts. *Journal of cellular physiology*, 234(6), 9065-9076.
- Barbieri, J. S., Wanat, K., & Seykora, J. (2014). Skin: Basic Structure and Function. Pathobiology of Human Disease, 1134–1144. doi:10.1016/b978-0-12-386456-7.03501-2
- Bernstein, E. F., Sarkas, H. W., & Boland, P. (2021). Iron oxides in novel skin care formulations attenuate blue light for enhanced protection against skin damage. *Journal of Cosmetic Dermatology*, 20(2), 532-537.
- Campiche, R., Curpen, S. J., Lutchmanen-Kolanthan, V., Gougeon, S., Cherel, M., Laurent, G., & Schuetz, R. (2020). Pigmentation effects of blue light irradiation on skin and how to protect against them. *International journal of cosmetic science*, 42(4), 399-406.
- CellTiter, P. (2012). Aqueous One Solution Cell Proliferation Assay. Technical Bulletin, 245, 1-9.
- Chamayou-Robert, C., DiGiorgio, C., Brack, O., & Doucet, O. (2021). Blue light induces DNA damage in normal human skin keratinocytes. *Photodermatology, Photoimmunology & Photomedicine*.
- Coats, J. G., Maktabi, B., Abou-Dahech, M. S., & Baki, G. (2021). Blue Light Protection, Part I—Effects of blue light on the skin. *Journal of cosmetic dermatology*, 20(3), 714-717. doi:10.1111/jocd.13837
- Cohen, L., Brodsky, M. A., Zubair, R., Kohli, I., Hamzavi, I. H., & Sadeghpour, M. (2020). Cutaneous interaction with visible light: what do we know. *Journal of the American Academy of Dermatology*.

- Colombo, I., Sangiovanni, E., Maggio, R., Mattozzi, C., Zava, S., Corbett, Y., & Dell'Agli, M. (2017). HaCaT cells as a reliable in vitro differentiation model to dissect the inflammatory/repair response of human keratinocytes. *Mediators of inflammation*, 2017.
- Dion, M., & Parker, W. (2013). Steam sterilization principles. *Pharmaceutical Engineering*, 33(6), 1-8.
- Duteil, L., Cardot-Leccia, N., Queille-Roussel, C., Maubert, Y., Harmelin, Y., Boukari, F., Passeron, T. (2014). Differences in visible light-induced pigmentation according to wavelengths: a clinical and histological study in comparison with UVB exposure. *Pigment Cell & Melanoma Research*, 27(5), 822–826. doi:10.1111/pcmr.12273
- Duteil, L., Esdaile, J., Maubert, Y., Cathelineau, A. C., Bouloc, A., Queille-Roussel, C., & Passeron, T. (2017). A method to assess the protective efficacy of sunscreens against visible light-induced pigmentation. *Photodermatology, photoimmunology & photomedicine*, 33(5), 260-266.
- Franzke, C. W., Cobzaru, C., Triantafyllopoulou, A., Löffek, S., Horiuchi, K., Threadgill, D. W., & Blobel, C. P. (2012). Epidermal ADAM17 maintains the skin barrier by regulating EGFR ligand–dependent terminal keratinocyte differentiation. *The Journal of experimental medicine*, 209(6), 1105-1119.
- Furukawa, J. Y., Martinez, R. M., Morocho-Jácome, A. L., Castillo-Gómez, T. S., Pereda-Contreras, V. J., Rosado, C., & Baby, A. R. (2021). Skin impacts from exposure to ultraviolet, visible, infrared, and artificial lights—A review. *Journal of Cosmetic and Laser Therapy*, 23(1-2), 1-7.
- Gabros, S., Nessel, T. A., & Zito, P. M. (2019). Sunscreens and photoprotection.
- Hänel, K. H., Cornelissen, C., Lüscher, B., & Baron, J. M. (2013). Cytokines and the skin barrier. *International journal of molecular sciences*, 14(4), 6720-6745.
- Jakhar, D., Kaul, S., & Kaur, I. (2020). Increased usage of smartphones during COVID-19: Is that blue light causing skin damage?. *Journal of Cosmetic Dermatology*, 19(10), 2466-2467.

- Kleinpenning, M. M., Smits, T., Frunt, M. H., Van Erp, P. E., Van De Kerkhof, P. C., & Gerritsen, R. M. (2010). Clinical and histological effects of blue light on normal skin. *Photodermatology, photoimmunology & photomedicine*, 26(1), 16-21.
- Majumdar, P., Biswas, A., & Sahu, S. (2020). COVID-19 pandemic and lockdown: cause of sleep disruption, depression, somatic pain, and increased screen exposure of office workers and students of India. *Chronobiology international*, 37(8), 1191-1200.
- Mizuno, M., Kunimoto, K., Naru, E., Kameyama, K., Furukawa, F., & Yamamoto, Y. (2016). The effects of continuous application of sunscreen on photoaged skin in Japanese elderly people—the relationship with the usage. *Clinical, cosmetic and investigational dermatology*, 9, 95.
- Morabito, K., Shapley, N. C., Steeley, K. G., & Tripathi, A. (2011). Review of sunscreen and the emergence of non-conventional absorbers and their applications in ultraviolet protection. *International journal of cosmetic science*, 33(5), 385-390.
- Mori, M., Hamamoto, A., Takahashi, A., Nakano, M., Wakikawa, N., Tachibana, S., & Kinouchi, Y. (2007). Development of a new water sterilization device with a 365 nm UV-LED. *Medical & biological engineering & computing*, 45(12), 1237-1241.
- Najim, N., Rusdi, R., Hamzah, A. S., Shaameri, Z., Mat Zain, M., & Kamarulzaman, N. (2014). Effects of the absorption behaviour of ZnO nanoparticles on cytotoxicity measurements. *Journal of Nanomaterials*, 2014.
- Nakashima, Y., Ohta, S., & Wolf, A. M. (2017). Blue light-induced oxidative stress in live skin. *Free Radical Biology and Medicine*, 108, 300-310.
- Ngoc, L. T. N., Tran, V. V., Moon, J. Y., Chae, M., Park, D., & Lee, Y. C. (2019). Recent trends of sunscreen cosmetic: An update review. *Cosmetics*, 6(4), 64. doi:10.3390/cosmetics6040064

- Regazzetti, C., Sormani, L., Debayle, D., Bernerd, F., Tulic, M. K., De Donatis, G. M., Passeron, T. (2018). Melanocytes Sense Blue Light and Regulate Pigmentation through Opsin-3. *Journal of Investigative Dermatology*, 138(1), 171–178. doi:10.1016/j.jid.2017.07.833
- Riss, T. L., Moravec, R. A., Nilas, A. L., Duellman, S., Benink, H. A., Worzella, T. J., & Minor, L. (2016). Cell viability assays. *Assay Guidance Manual* [Internet].
- Sadowska, M., Narbutt, J., & Lesiak, A. (2021). Blue Light in Dermatology. *Life*, 11(7), 670. doi:10.3390/life11070670
- Sander, M., Sander, M., Burbidge, T., & Beecker, J. (2020). The efficacy and safety of sunscreen use for the prevention of skin cancer. *Canadian Medical Association Journal*, 192(50). doi:10.1503/cmaj.201085
- Schieber, M., & Chandel, N. S. (2014). ROS function in redox signaling and oxidative stress. *Current biology*, 24(10), R453-R462.
- Sjafaraenan, S., Johannes, E., & Wulandari, S. N. (2019). Pengaruh Interval Dosis 2, 44-19, 53 µG/ml Ekstrak N-heksana Dari Hydroid Aglaopheniacupressinalamoureux Terhadap Aktivitas Pertumbuhan Selhela. *BIOMA: JURNAL BIOLOGI MAKASSAR*, 4(1), 11-19.
- Strober, W. (2015). Trypan blue exclusion test of cell viability. *Current protocols in immunology*, 111(1), A3-B.
- Taylor, K. M., & Aulton, M. E. (Eds.). (2017). *Aulton's Pharmaceutics E-Book: The Design and Manufacture of Medicines*. Elsevier Health Sciences. 252.
- Teimouri, A., Yeung, P., & Agu, R. (2019). 2D vs. 3D Cell Culture Models for In Vitro Topical (Dermatological) Medication Testing. *Cell Culture*. doi:10.5772/intechopen.79868
- Tyagi, N., Srivastava, S. K., Arora, S., Omar, Y., Ijaz, Z. M., Ahmed, A. G., ... & Singh, S. (2016). Comparative analysis of the relative potential of silver, Zinc-oxide and titanium-dioxide

nanoparticles against UVB-induced DNA damage for the prevention of skin carcinogenesis. *Cancer letters*, 383(1), 53-61.

Van Tonder, A., Joubert, A. M., & Cromarty, A. D. (2015). Limitations of the 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyl-2H-tetrazolium bromide (MTT) assay when compared to three commonly used cell enumeration assays. *BMC research notes*, 8(1), 1-10.

Walsh, S. E., Laird, K., & Maillard, J. Y. (2017). *Principles of sterilization*.

Wang, P., Henning, S. M., & Heber, D. (2010). Limitations of MTT and MTS-based assays for measurement of antiproliferative activity of green tea polyphenols. *PloS one*, 5(4), e10202.

Yamada, M., Mohammed, Y., & Prow, T. W. (2020). Advances and controversies in studying sunscreen delivery and toxicity. *Advanced Drug Delivery Reviews*, 153, 72-86.

Yoo, J. A., Yu, E., Park, S. H., Oh, S. W., Kwon, K., Park, S. J., & Lee, J. (2020). Blue light irradiation induces human keratinocyte cell damage via transient receptor potential vanilloid 1 (TRPV1) regulation. *Oxidative Medicine and Cellular Longevity*, 2020.

Zhu, P., Chen, J., Li, P., & Xu, S. (2021). Limitation of Water-Soluble Tetrazolium Salt for the Cytocompatibility Evaluation of Zinc-Based Metals. *Materials*, 14(21), 6247.

Zhuang, L., & Kaur, P. (2020). The aging epidermal skin niche. *Advances in Stem Cells and Their Niches*, 65–98. doi:10.1016/bs.asn.2020.06.002