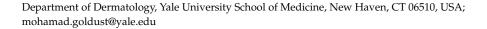




Editorial

Cellular Mechanisms of Skin Diseases

Mohamad Goldust @



Skin plays an important role in protecting and enhancing health. Because it interfaces with the environment, it plays a key role in immunity and protects the body against pathogens. Although substantial research has been carried out to clarify the pathophysiology of skin diseases, much remains to be discovered regarding the cellular mechanisms of cutaneous disorders. In this context, the editors of the journal *Cells* decided to create a Special Issue, entitled "Cellular Mechanisms of Skin Diseases." It encompasses six articles covering various aspects of skin structure [1–6].

This Special Issue highlights various aspects of the skin, including, but not limited to, cutaneous structure and the pathophysiology of skin disorders. To be brief, the key published articles in this Special Issue addressed the following topics: First, atopic dermatitis and its environment [1,2]. Blicharz and colleagues stated that patients with atopic dermatitis have a high prevalence of Staphylococcus aureus encoding superantigens on lesional skin, nonlesional skin, and the anterior nares [1]. Brewer et al. demonstrated that keratinocyte differentiation in tandem with an inflammatory milieu (IL-4/13) or barrier disruption (TJDP treatment) substantially changes the susceptibility to viral infection [2]. A possible cellular mechanism of human hypertrophic scars and keloids was highlighted by Petrou and colleagues [3], and a 3D psoriatic skin model enriched in T cells and its gene profiling was shown by Rioux et al. [4]. Second, Nowicka and colleagues assessed various aspects of lymphomatoid papulosis (LyP) and mentioned that because of the expanded risk of lymphoma development, patients diagnosed with LyP need lifelong follow-up, and many of them will develop malignant neoplasms in the future [5]. Finally, the role of serum Th1, Th2, and Th17 cytokines in alopecia areata was stated by Szczepańska and co-authors [6].

Special thanks go to esteemed contributors from around the world who enriched this Issue with their valuable and interesting studies.

Conflicts of Interest: The author declares no conflict of interest.



Citation: Goldust, M. Cellular Mechanisms of Skin Diseases. *Cells* 2023, 12, 945. https://doi.org/ 10.3390/cells12060945

Received: 14 March 2023 Accepted: 17 March 2023 Published: 20 March 2023



Copyright: © 2023 by the author. Licensee MDPI, Basel, Switzerland. This article is an open access article distributed under the terms and conditions of the Creative Commons Attribution (CC BY) license (https://creativecommons.org/licenses/by/4.0/).

Cells **2023**, 12, 945

References

1. Blicharz, L.; Żochowski, M.; Szymanek-Majchrzak, K.; Czuwara, J.; Goldust, M.; Skowroński, K.; Młynarczyk, G.; Olszetwska, M.; Samochocki, Z.; Rudnicka, L. Enterotoxin Gene Cluster and selX Are Associated with Atopic Dermatitis Severity-A Cross-Sectional Molecular Study of Staphylococcus aureus Superantigens. *Cells* **2022**, *11*, 3921. [CrossRef] [PubMed]

- 2. Brewer, M.G.; Monticelli, S.R.; Moran, M.C.; Miller, B.L.; Beck, L.A.; Ward, B.M. Conditions That Simulate the Environment of Atopic Dermatitis Enhance Susceptibility of Human Keratinocytes to Vaccinia Virus. *Cells* **2022**, *11*, 1337. [CrossRef] [PubMed]
- 3. Petrou, I.G.; Nikou, S.; Madduri, S.; Nifora, M.; Bravou, V.; Kalbermatten, D.F. The Role of Hippo Signaling Pathway and ILK in the Pathophysiology of Human Hypertrophic Scars and Keloids: An Immunohistochemical Investigation. *Cells* **2022**, *11*, 3426. [CrossRef] [PubMed]
- 4. Rioux, G.; Turgeon, F.; Le-Bel, G.; Grenier, C.; Guérin, S.L.; Pouliot, R. Gene Profiling of a 3D Psoriatic Skin Model Enriched in T Cells: Downregulation of PTPRM Promotes Keratinocyte Proliferation through Excessive ERK1/2 Signaling. *Cells* 2022, 11, 2904. [CrossRef] [PubMed]
- 5. Nowicka, D.; Mertowska, P.; Mertowski, S.; Hymos, A.; Forma, A.; Michalski, A.; Morawska, I.; Hrynkiewicz, R.; Niedźwiedzka-Rystwej, P.; Grywalska, E. Etiopathogenesis, Diagnosis, and Treatment Strategies for Lymphomatoid Papulosis with Particular Emphasis on the Role of the Immune System. *Cells* **2022**, *11*, 3697. [CrossRef] [PubMed]
- 6. Waśkiel-Burnat, A.; Osińska, M.; Salińska, A.; Blicharz, L.; Goldust, M.; Olszewska, M. The Role of Serum Th1, Th2, and Th17 Cytokines in Patients with Alopecia Areata: Clinical Implications. *Cells* **2021**, *11*, 3697. [CrossRef] [PubMed]

Disclaimer/Publisher's Note: The statements, opinions and data contained in all publications are solely those of the individual author(s) and contributor(s) and not of MDPI and/or the editor(s). MDPI and/or the editor(s) disclaim responsibility for any injury to people or property resulting from any ideas, methods, instructions or products referred to in the content.