

Microbiome cutané

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e MS, Keelan JA.
24. doi: 10.3389/fmicb.2019.01124. eCollection 2019.

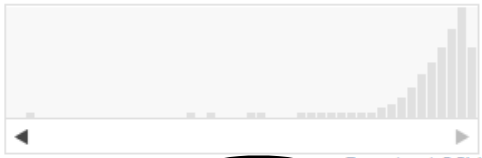
[underestimated cytokine in atopic dermatitis.](#)

/all.13954. [Epub ahead of print] Review.

[erized by higher bacterial load and imbalance between Cutibacterium](#)
F, Chen LH, Liu N, Wang B, Wang LQ, Wang XP, Yang H, Zheng J.
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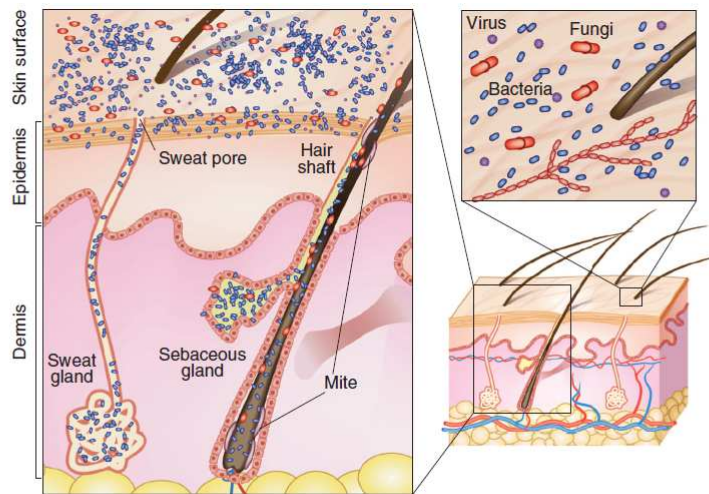
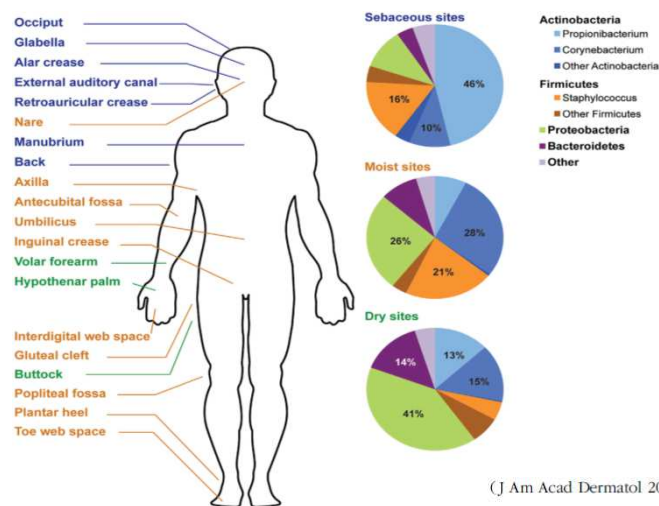


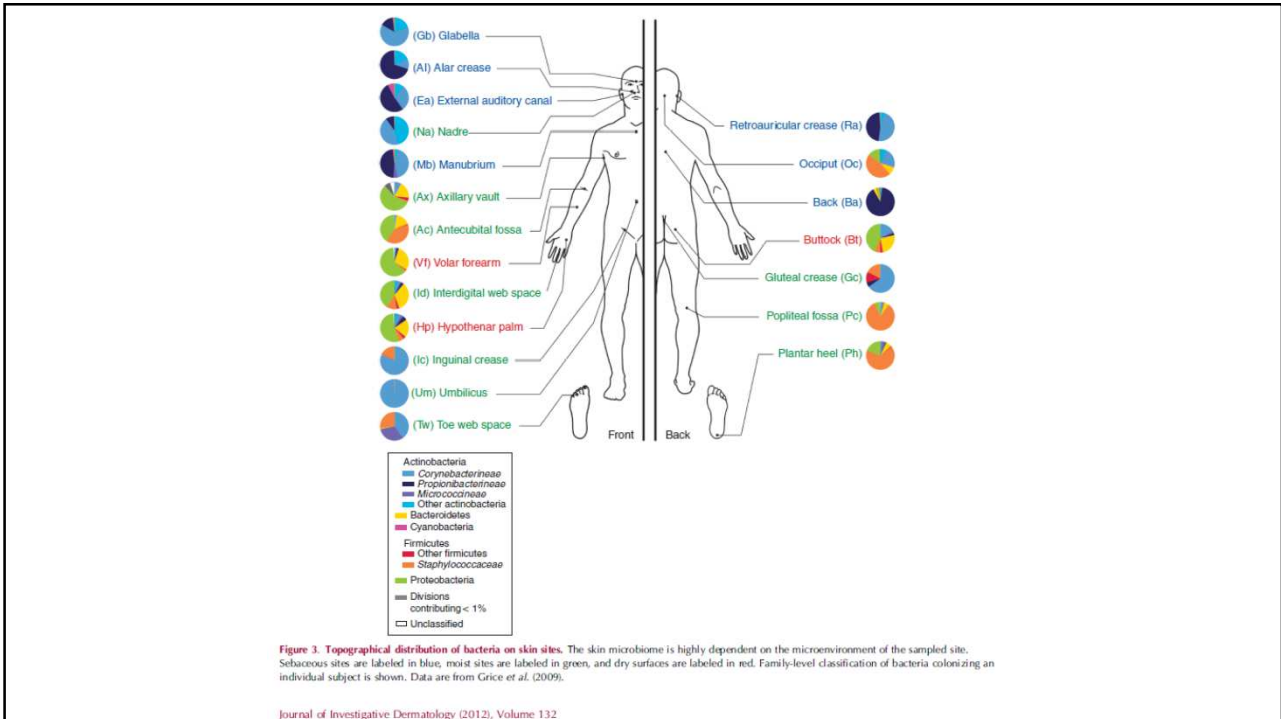
Figure 1. Schematic of skin histology viewed in cross-section with microorganisms and skin appendages. Microorganisms (viruses, bacteria and fungi, and mites) cover the surface of the skin and reside deep within the hair and glands.

34 Journal of Investigative Dermatology (2012), Volume 132



(J Am Acad Dermatol 2013;69:143-55.)

Fig 3. Microbiome composition on normal-appearing human skin. Sebaceous (blue text), moist (orange text), and dry (green text) habitats are labeled anatomically. Microbial composition differs among habitats (pie charts at right). Four major phyla are shown: Actinobacteria, Firmicutes, Proteobacteria, and Bacteroidetes. Within these phyla, 3 most abundant genera are also shown: Propionibacterium, Corynebacterium, and Staphylococcus. Figure is compiled with data pooled from many metagenomes, from Grice et al.³¹ Figure is adapted from Fig 3 in Grice and Segre⁹ with permission from Nature Publishing Group.





REVIEW ARTICLE

Papulopustular rosacea, skin immunity and Demodex: pityriasis folliculorum as a missing link

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Demodex-associated bacterial proteins induce neutrophil activation

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*Medical Mycology Unit, Department of Biology, National University of Ireland Maynooth, Co. Kildare, Ireland

†Respiratory Research Division, Department of Medicine, Royal College of Surgeons in Ireland, Beaumont Hospital, Dublin 9, Ireland

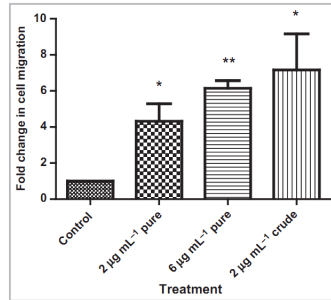


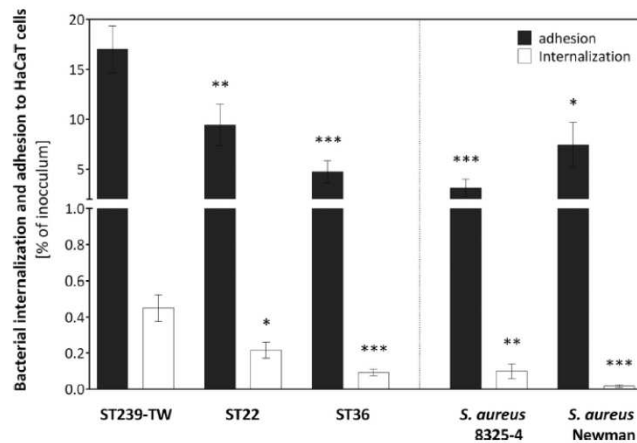
Fig 2. The effect of *B. oleronius* proteins on migration of human neutrophils through 3-µm porous inserts. The results are presented as a fold change in cell density compared with control, where a significant increase of $P < 0.05$ is denoted by * and $P < 0.01$ is denoted by **.



Tolerance of MRSA ST239-TW to chlorhexidine-based decolonization: Evidence for keratinocyte invasion as a mechanism of biocide evasion

Helene Marbach^{A,1}, Gema Vizcay-Barrena^B, Kaveh Memarzadeh^C, Jonathan A. Otter^{D,2}, Smriti Pathak^D, Robert P. Allaker^C, Richard D. Harvey^{A,3}, Jonathan D. Edgeworth^D

^AFaculty of Life Sciences and Medicine, Institute of Pharmaceutical Science, ^BCentre for Ultrastructural Imaging, King's College London, Guy's Campus, London, UK, ^CBarts and The London School of Medicine and Dentistry, Queen Mary University of London, ^DDepartment of Infectious Diseases, Centre for Clinical Infection and Diagnostic Foundation Trust (CICFT), London, UK



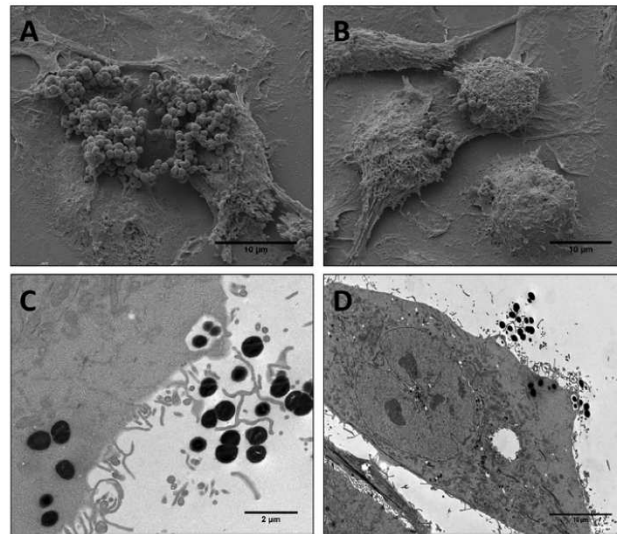


Fig. 3. Electron micrographs of HaCaT cells infected with MRSA ST239-TW strain (TW20)⁹⁹. SEM (A, B) of adhered ST239-TW and TEM (C, D) of surrounding, and internalized ST239-TW, either presenting in vacuoles or embedded in the cell cytoplasm. SEM shows the top view and TEM a cross section of co-incubated HaCaT cells with ST239-TW (TW20) bacteria for one hour and a three time wash with PBS.

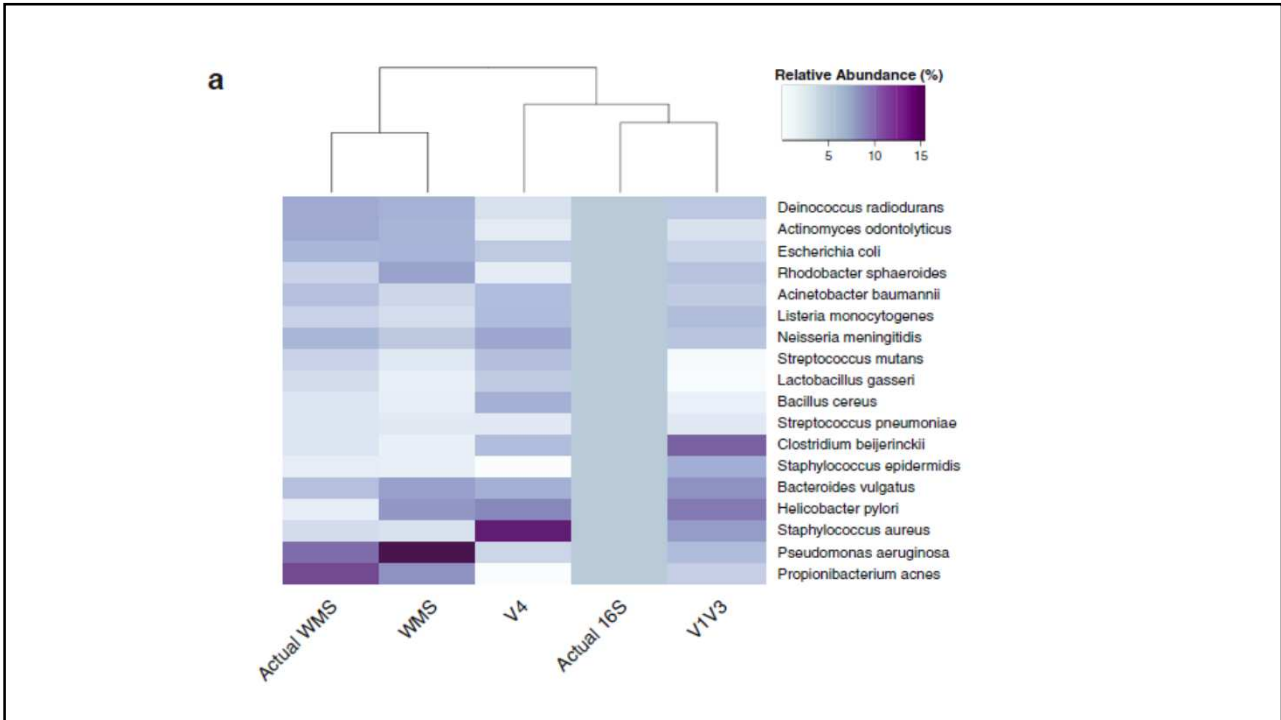
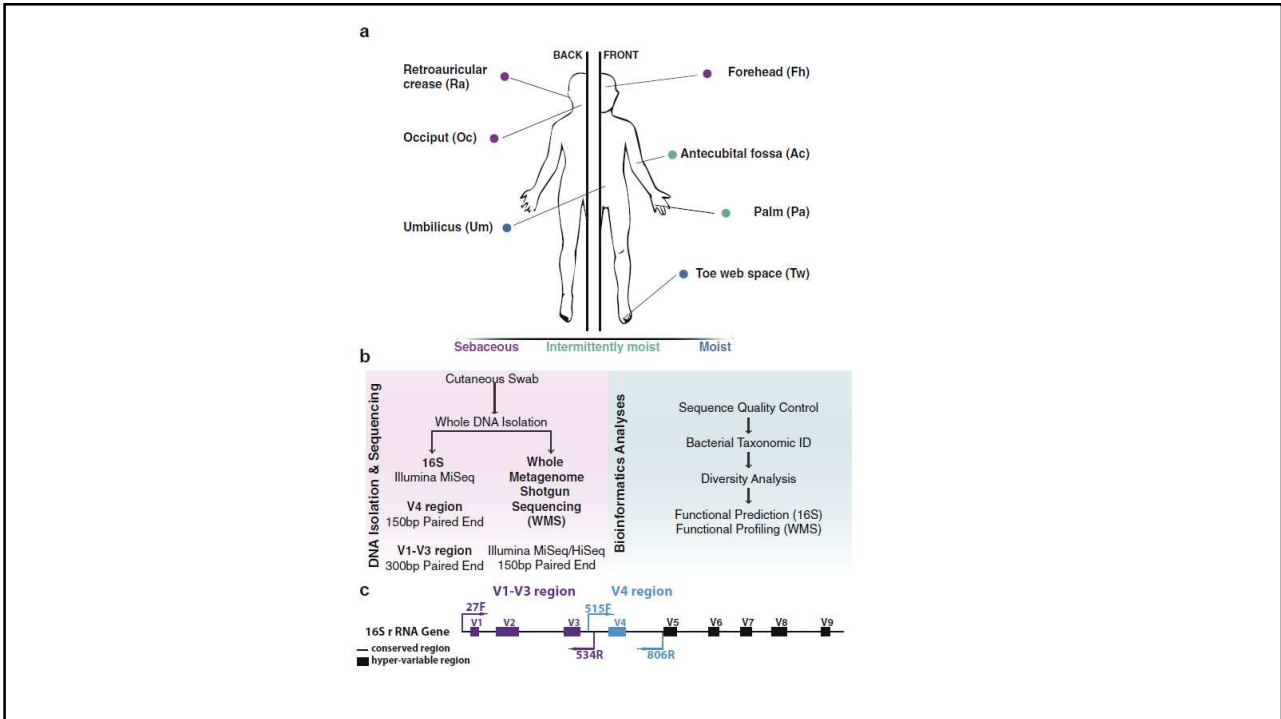
Microbiome change selon technique de recherche

Skin Microbiome Surveys Are Strongly Influenced by Experimental Design

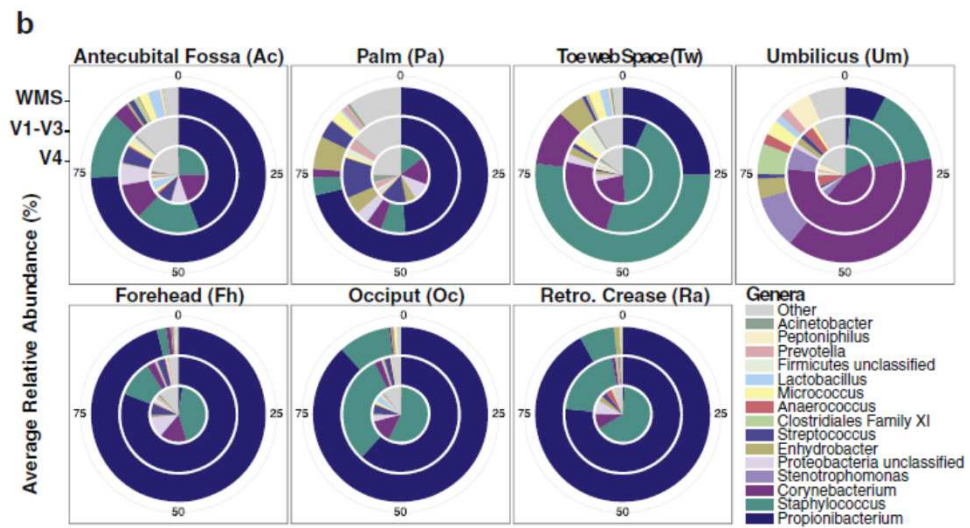


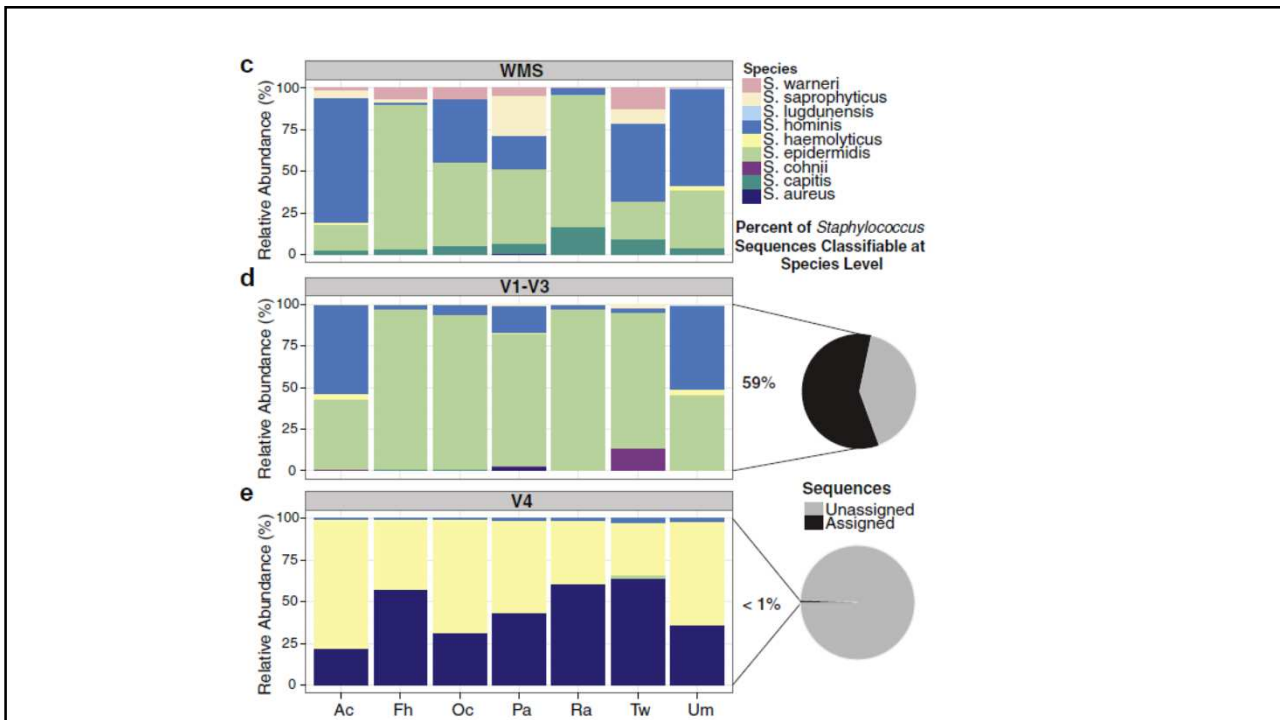
Jacquelyn S. Meisel¹, Geoffrey D. Hannigan¹, Amanda S. Tyldsley¹, Adam J. SanMiguel¹, Brendan P. Hodkinson¹, Qi Zheng¹ and Elizabeth A. Grice¹

Culture-independent studies to characterize skin microbiota are increasingly common, due in part to affordable and accessible sequencing and analysis platforms. Compared to culture-based techniques, DNA sequencing of the bacterial 16S ribosomal RNA (rRNA) gene or whole metagenome shotgun (WMS) sequencing provides more precise microbial community characterizations. Most widely used protocols were developed to characterize microbiota of other habitats (i.e., gastrointestinal) and have not been systematically compared for their utility in skin microbiome surveys. Here we establish a resource for the cutaneous research community to

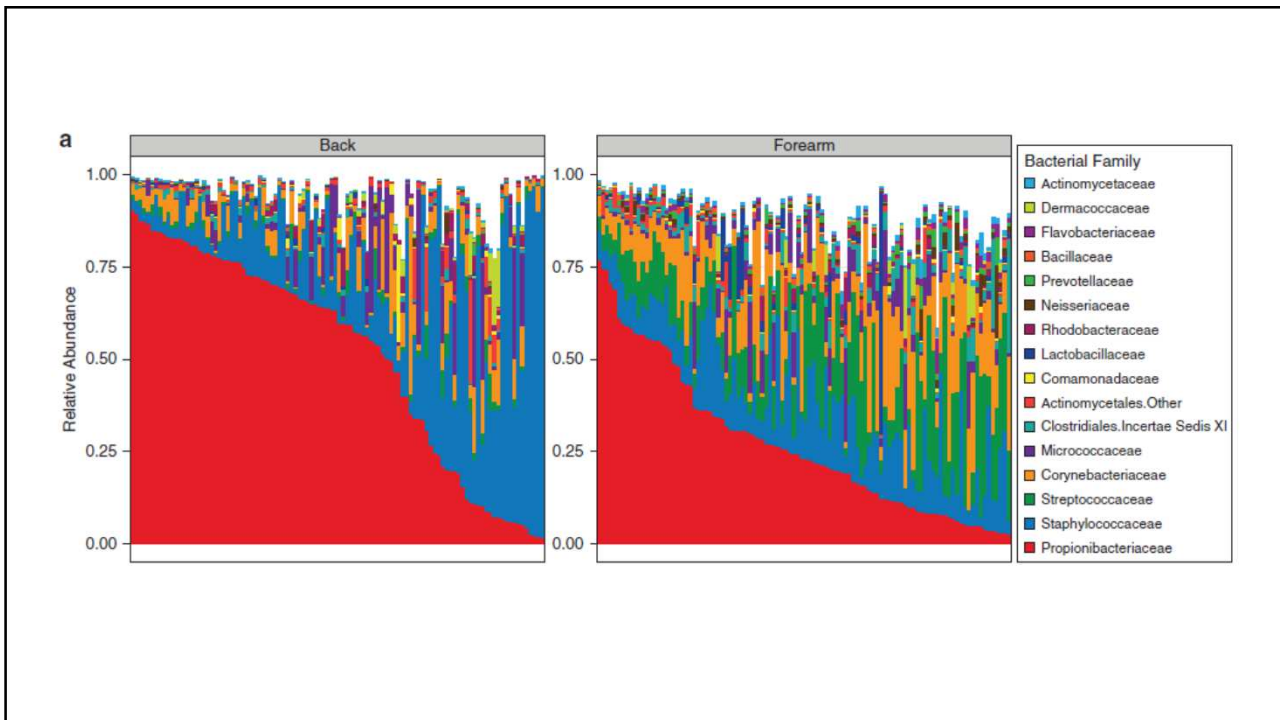


Microbiome change selon site





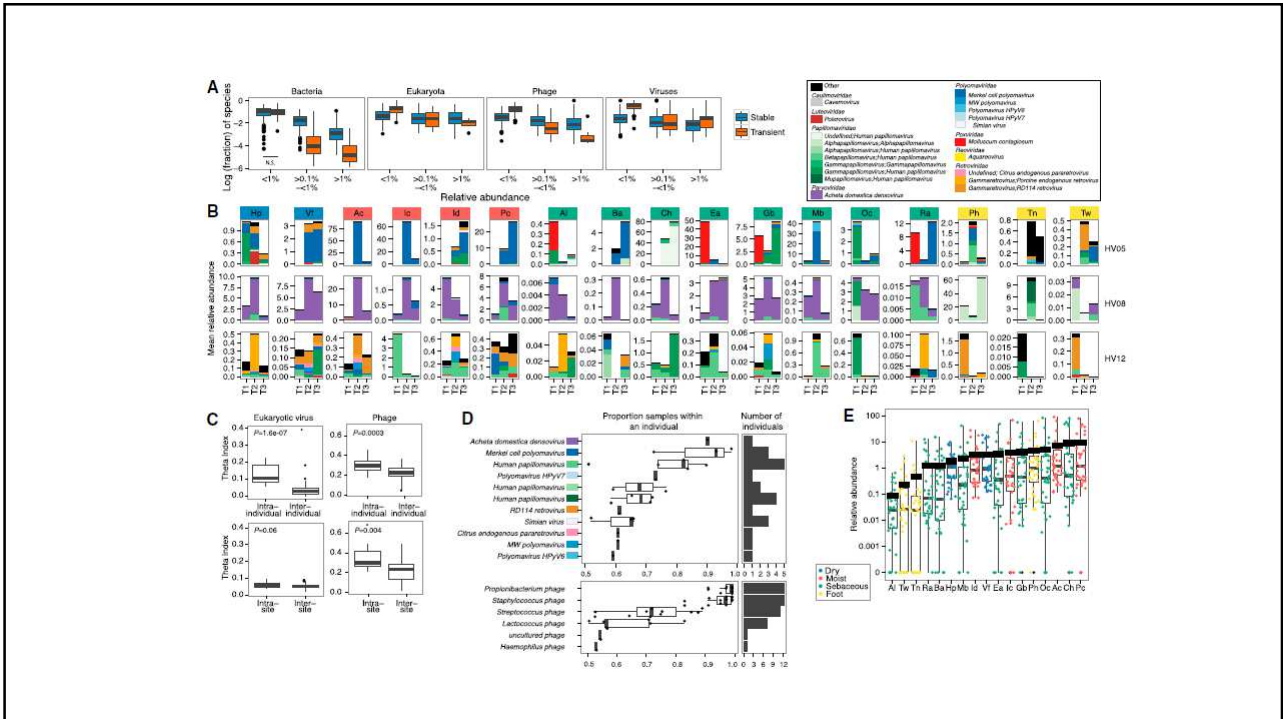
Microbiome change selon individus



Cell

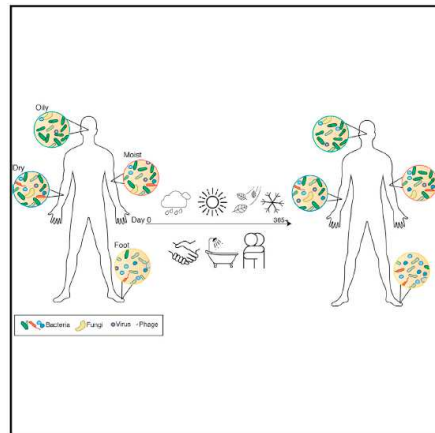
Article

Temporal Stability of the Human Skin Microbiome



Temporal Stability of the Human Skin Microbiome

Graphical Abstract



Authors

Julia Oh, Allyson L. Byrd, Morgan Park, NISC Comparative Sequencing Program, Heidi H. Kong, Julia A. Segre

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konghe@mail.nih.gov (H.H.K.), jsegre@mail.nih.gov (J.A.S.)

In Brief

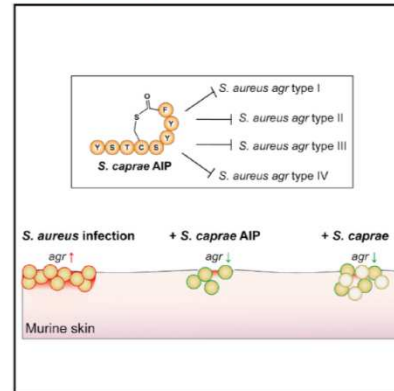
Healthy adults stably maintain their skin microbial communities over time at the kingdom, phylum, species, and even, strain level, despite constant exposure to the external environment and other individuals.

Article

Cell Host & Microbe

Coagulase-Negative Staphylococcal Strain Prevents *Staphylococcus aureus* Colonization and Skin Infection by Blocking Quorum Sensing

Graphical Abstract



Authors

Alexandra E. Paharik, Corey P. Parlet, Nadjali Chung, ..., Michael J. Van Dyke, Nadja B. Cech, Alexander R. Horswill

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In Brief

Paharik, Parlet, et al. demonstrate that the human commensal *Staphylococcus caprae* competes with *Staphylococcus aureus* by inhibiting quorum sensing. Through signal interference, *S. caprae* reduces methicillin-resistant *S. aureus* burden in both skin colonization and infection, highlighting the benefits of healthy skin flora and suggesting a new avenue for probiotic therapy.

TRANSLATIONAL RESEARCH

BJD
British Journal of Dermatology

Staphylococcus aureus colonization in atopic eczema and its association with filaggrin gene mutations

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³Institute of Veterinary Disease Biology, University of Copenhagen, Copenhagen, Denmark

LETTER

doi:10.1038/nature12655

Staphylococcus δ -toxin induces allergic skin disease by activating mast cells

Yuumi Nakamura¹, Jon Oscherwitz^{2,3}, Kemp B. Cease^{2,3}, Susana M. Chan¹, Raul Muñoz-Planillo¹, Mízuho Hasegawa¹, Amer E. Villaruz⁴, Gordon Y. C. Cheung⁴, Martin J. McGavin⁵, Jeffrey B. Travers⁶, Michael Otto⁴, Naohiro Inohara¹ & Gabriel Núñez¹



RESEARCH ARTICLE

IL-22/STAT3-Induced Increases in SLURP1 Expression within Psoriatic Lesions Exerts Antimicrobial Effects against *Staphylococcus aureus*

Yasuhiro Moriwaki^{1*}, Kiyoko Takada¹, Toshinori Nagasaki¹, Natsuki Kubo¹, Tomohiro Ishii¹, Kazuaki Kose¹, Taihei Kageyama², Shoutaro Tsuji², Koichiro Kawashima³, Hidemi Mitsuwa^{1*}



1 Department of Pharmacology, Faculty of Pharmacy, Keio University, Minato-ku, Tokyo 105-8512, Japan, **2** Molecular Diagnostics Project, Kanagawa Cancer Center Research Institute, Yokohama, Kanagawa, Japan, **3** Department of Molecular Pharmacology, Kiasato University School of Pharmacy, Minato-ku, Tokyo, Japan

RESEARCH ARTICLE

PSORIASIS

IL-29 Is Produced by T_H17 Cells and Mediates the Cutaneous Antiviral Competence in Psoriasis

Kerstin Wolk,^{1,2,3,†} Katrin Witte,^{1,2†} Ellen Witte,^{1,2} Martin Rafferty,¹ Georgios Kokolakis,^{1,2} Sandra Philipp,^{1,2} Günther Schönrich,¹ Katarzyna Warszawska,¹ Stefan Kirsch,¹ Susanna Prösch,^{1†} Wolfram Sterry,² Hans-Dieter Volk,^{2,3} Robert Sabat^{1,2,3,*}

Psoriasis and atopic dermatitis (AD) are the most common chronic inflammatory skin diseases. Although both patient groups show strongly impaired skin barrier function, only AD patients frequently suffer from cutaneous viral infections. The mechanisms underlying the distinct susceptibilities to these pathogenic and often life-threatening infections are unknown. We show that antiviral proteins (AVPs) such as MX1, BST2, ISG15, and OAS2 were strongly elevated in psoriatic compared to AD lesions and healthy skin. Of 30 individually quantified cytokines in psoriatic lesions, interleukin-29 (IL-29) was the only mediator whose expression correlated with the AVP levels. IL-29 was absent in AD lesions, and neutralization of IL-29 in psoriatic skin reduced AVP expression. Accordingly, IL-29 raised AVP levels in isolated keratinocytes, epidermis models, and human skin explants, but did not influence antibacterial protein production. AVP induction correlated with increased antiviral defense of IL-29-treated keratinocytes. Furthermore, IL-29 elevated the expression of signaling elements, resulting in increased sensitivity of keratinocytes toward its own action. We identified T helper 17 (T_H17) cells as IL-29 producers and demonstrated their ability to increase the antiviral competence of keratinocytes in an IL-29-dependent manner. Transforming growth factor- β and the activity of ROR γ 1/RO α were most critical for the development of IL-29-producing T_H17 cells. IL-29 secretion by these cells was dependent on NFAT and Jun N-terminal kinase and was inhibited by IL-4. These data suggest that T_H17 cell-derived IL-29, which is absent in AD, mediates the robust antiviral state on psoriatic skin, and demonstrate a new function of T_H17 cells.

Eur J Clin Microbiol Infect Dis (2014) 33:1757–1762
DOI 10.1007/s10096-014-2127-6

ARTICLE

First outbreak of community-acquired MRSA USA300 in France: failure to suppress prolonged MRSA carriage despite decontamination procedures

O. Baud • S. Giron • C. Aumeran • D. Mouly •
G. Bardon • M. Besson • J. Delmas • B. Coignard •
A. Tristan • F. Vandenesch • G. Illes • O. Lesens

