Skin microbiome profile of healthy Cameroonians and Japanese

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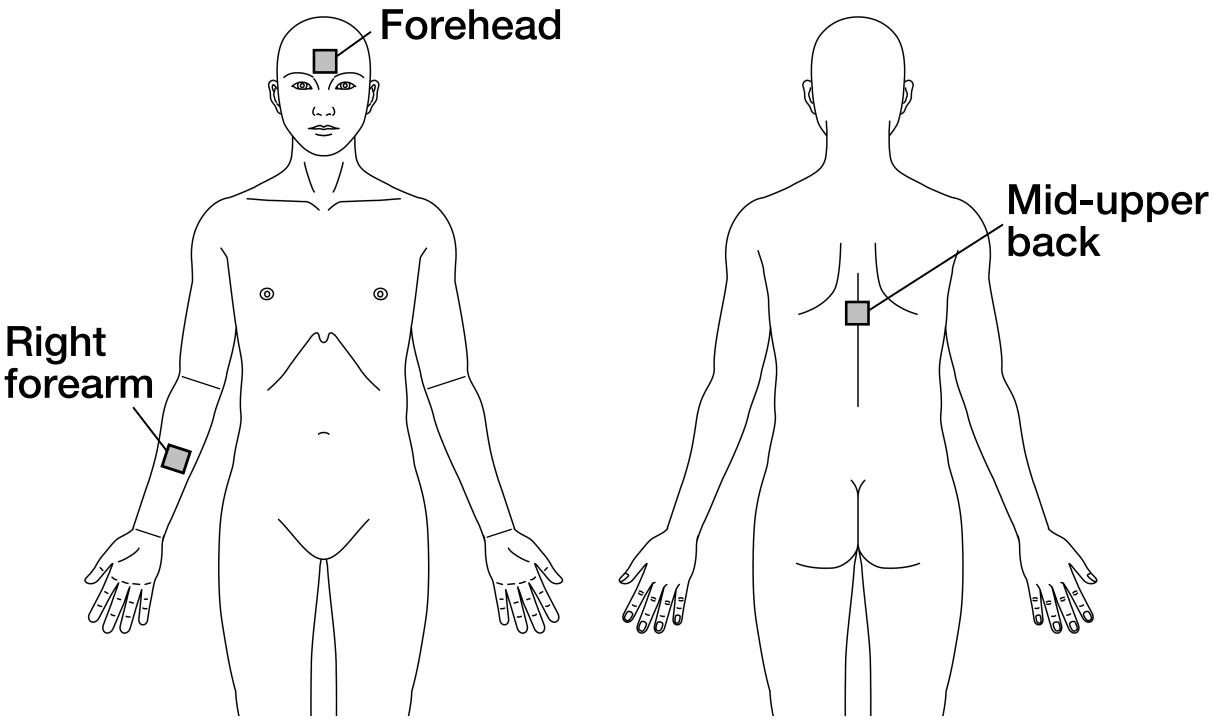
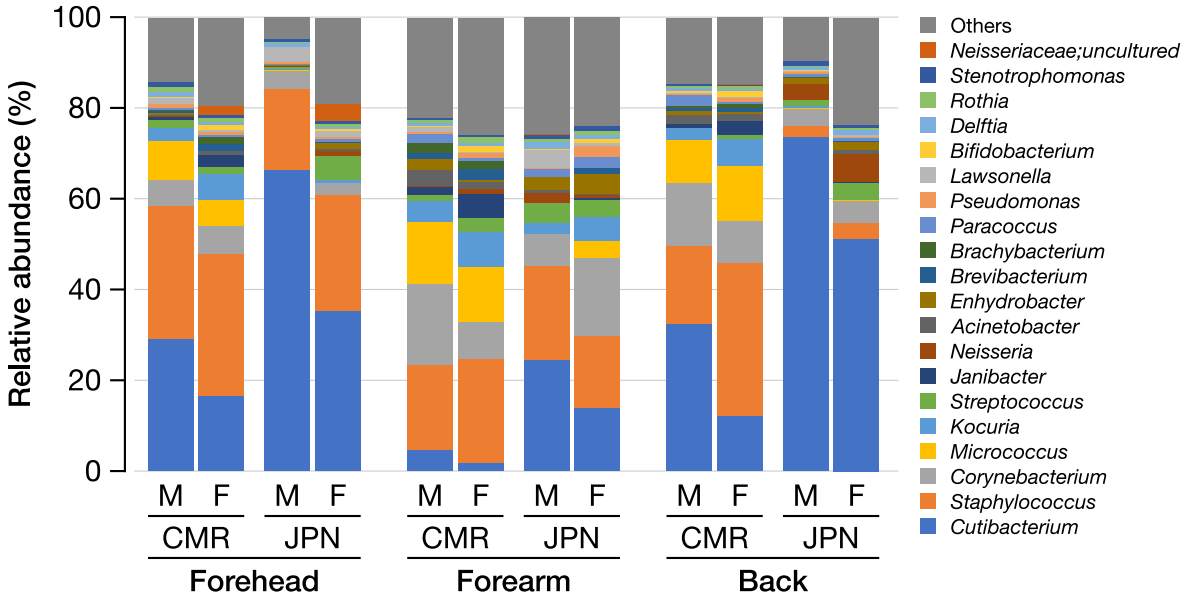
SUPPLEMENTARY INFORMATION

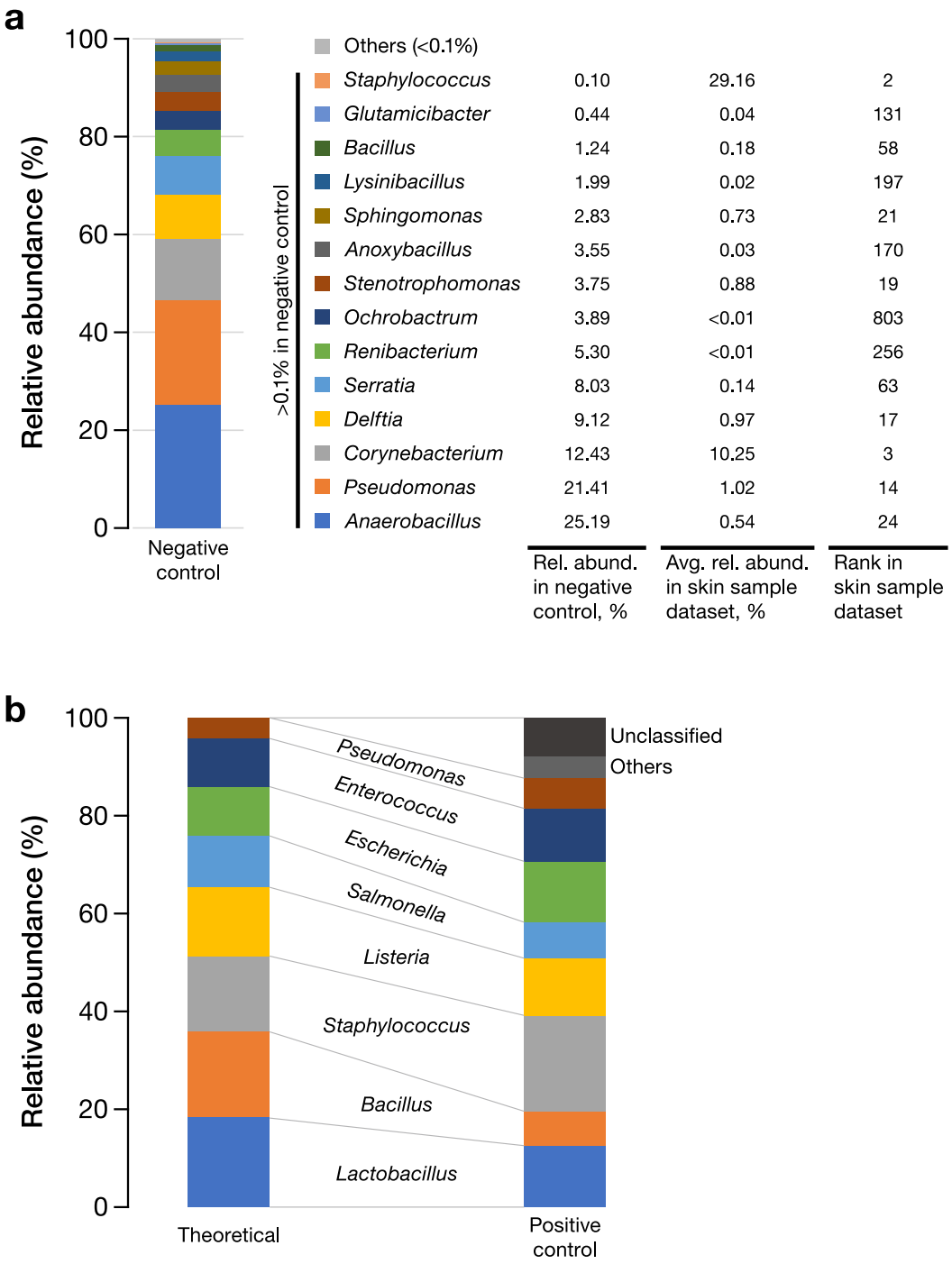
- Supplementary Figure S1
- Supplementary Figure S2
- Supplementary Figure S3
- Supplementary Table S1



Supplementary Figure S1. Position of sampling.



Supplementary Figure S2. Top 20 skin microbiome at various positions between Cameroonian and Japanese participants stratified by sex. CMR, Cameroonian; JPN, Japanese; M, male; F, female.



Supplementary Figure S3. Negative (**a**) and positive (**b**) experimental controls. The negative control was prepared by processing a swab without skin swabbing, and the positive control was prepared by processing the ZymoBIOMICS Microbial Community Standard (D6300; Zymo Research Corp., Irvine, CA, USA), both along with the other skin swabs which gave the results of the "skin sample dataset."

Rel. abund., relative abundance; avg., average.

Supplementary Table S1. Two-way (sex × country) analysis of variance with effect size for relative abundance of each genus in Table 1

		Forehead			Forearm			Back		
Genus	**Term**	***F* value**	***p*-value**	**partial η^2**	***F* value**	***p*-value**	**partial η^2**	***F* value**	***p*-value**	**partial η^2**
Cutibacterium	sex	9.58	0.003	0.182	3.20	0.08	0.086	7.07	0.011	0.144
	country	15.66	<0.001	**0.267**	17.68	<0.001	**0.342**	24.81	<0.001	**0.371**
	sex:country	1.73	0.20	0.039	1.04	0.31	0.030	0.02	0.89	0.000
Staphylococcus	sex	0.61	0.44	0.014	0.00	0.95	0.000	4.16	0.048	0.090
	country	1.81	0.19	**0.040**	0.21	0.65	0.006	17.29	<0.001	**0.292**
	sex:country	0.21	0.65	0.005	0.73	0.40	**0.021**	5.37	0.025	0.113
Micrococcus	sex	0.62	0.44	0.014	0.09	0.77	0.003	0.16	0.69	0.004
	country	15.10	<0.001	**0.260**	10.38	0.0028	**0.234**	11.16	0.0018	**0.210**
	sex:country	0.68	0.41	0.016	0.71	0.40	0.021	0.15	0.70	0.004
Corynebacterium	sex	0.10	0.75	0.002	0.01	0.91	0.000	0.66	0.42	0.016
	country	30.45	<0.001	**0.415**	0.10	0.76	0.003	11.41	0.0016	**0.214**
	sex:country	0.02	0.89	0.000	8.89	0.0053	**0.207**	1.53	0.22	0.035
Kocuria	sex	1.00	0.32	0.023	0.75	0.39	**0.022**	0.67	0.42	0.016
	country	6.00	0.018	**0.122**	0.50	0.48	0.015	3.68	0.062	**0.081**
	sex:country	0.56	0.46	0.013	0.00	0.95	0.000	0.92	0.34	0.021
Janibacter	sex	1.32	0.26	0.030	0.68	0.41	0.020	0.84	0.36	0.020
	country	4.85	0.033	**0.101**	1.72	0.20	**0.048**	2.82	0.10	**0.063**
	sex:country	1.47	0.23	0.033	0.36	0.55	0.011	0.76	0.39	0.018
Streptococcus	sex	5.27	0.027	0.109	0.18	0.68	0.005	3.27	0.078	0.072
	country	1.59	0.21	0.036	1.96	0.17	**0.055**	6.50	0.015	**0.134**
	sex:country	5.64	0.02	**0.116**	0.89	0.35	0.026	1.26	0.27	0.029

Term: sex, male vs female; country, Japan vs Cameroon; sex:country, interaction of sex and country.

Partial η^2, effect size; bold numbers represent the highest partial η^2 among the comparison (sex, country, and sex:country within the same genus and position).