Index

Page numbers in italic refer to figures. Page numbers in bold refer to tables.

A
abdomen, liposuction, 465–467
abscesses, from filler injection, 377
absorption promoters, 68
accelerants, 68
Accent Device (radiofrequency device), 434
acetic acid, after peels, 407
acetone, 223, 405
N-acetyl-Glu-Glu-Met-Gln-Arg-Arg-NH2 (hexapeptide), 313
acetyl-Ser-Asp-Lys-Pro (tetrapeptide), 311
acetyl-tetrapeptide 2, 314
N-acetyl-Tyr-Arg-hexadecylester, 313
acidic permanent waves, 258
acidity, stratum corneum, 9
acne
autologous fibroblast cell therapy, 387
camouflage, 191
cross-polarized light photography, 45
dermabrasion, 438, 440, 442
diode laser, 433
dry ice, 398
glycolic acid peels, 354
hydroxyacids, 354, 503
isotretinoin, 326
mildness of cleansing, 93, 94
Nd:YAG lasers, 432
Q-switched, 432
oats for, 290
over-the-counter treatments, 501–508
peels, 400–401
postinflammatory hyperpigmentation, 25
sunscreens, 494
UV fluorescence photography, 46
acylates
contact dermatitis, 214
nail lacquers, 219
acrylics, 77
allergy, 58
artificial nail enhancements, 226–228
actinic keratoses, medium depth peels, 404, 410
activator protein-1 (AP-1), 15, 318–319
corticosteroids on, 301–302
retinoic acid on, 18
UV radiation on, 16
Active FX-Lumenis laser, 415–419, 420, 427
Active photo barrier complex®, 514
acyclovir, 405
acetyl isethionate bars, 85, 86, 87, 89, 90–92
adapalene, 496
Δδ nociceptors, 37
adhesion molecules, 298–299, 305
adhesion promoters, artificial nail enhancements, 228
adhesive pads, acne, 505
adipose-derived stem cells, 323, 388
advanced glycation end products, 296–297, 349, 361
adverse effects, 52–64, see also contact dermatitis
adipose-derived stem cells, 388
antiperspirants, 164
artificial nail enhancements, 231–232
autologous fibroblast cell therapy, 388
botulinum toxins, 372
collagen, 387
cosmeceuticals, 284–285
laser therapy, 412
panthenol relieving, 342
permanent waves, 259–260
platelet-rich plasma, 386–387
aerosol hairsprays, 273–274, 276
African-American skin, see also ash skin; ethnic skin
photoaging, 17, 29
African hair, 25, 29–31
styling aids, 276–278
age-spots, 314
vitamin C on, 497
aging, see also photoaging
ethnic skin, 27–28
face, 27–28, 375, 380
hair, 253
hands, 485, 486
inflammation, 299
lips, 194–195
microvasculature, 15, 195
neck, 28
nonablative lasers on, 434–435
nutrients for, 360
vs photoaging, 13–14
reactive oxygen species, 296–297
alcohol
as penetration enhancer, 68
for percutaneous delivery, 67
as solvent, 105
in sunless tanning agents, 151
TFM rating, 114
toners, 106
alcohol-based hand sanitizers, 113–114, 117–118
guidelines, 112
organisms not affected, 118
safety, 119
soaps vs, 119
alodibionic acids see bionic acids
alexandrite laser, 447–448
alkaline perms, 258
alkalizers
hair dyes, 240
perming lotions, 256
alkyl sulfates, 97
allergens
balsam of Peru as, 55
hair dyes, 246
allergic contact dermatitis, 53
fragrances, 55
preservatives, 55–56
tattooing, 59
allergic reactions, 11, 57–60
autologous fibroblast cell therapy, 388
botanicals, 285
papaya, 290
formalin, 222
hair dyes, 244, 245, 246–248
hair styling aids, 278
nail cosmetics, 213–214
UV gel nail polish, 223
Allergy Alert Test, hair dyes, 245, 247, 248
all-trans-retinoic acid (tRA), 18
aloe, 287–288
alpha bisabolol, 506
α-hydroxyacids, 346–347, 351, 495–496, 499
acne, 503
as peel agents, 353, 395–396
rosacea, 515
α-lipoic acid, 358, 498, 499
α-tocopherol acetate, 343, see also d-α-tocopherol
aluminum salts, 163, 164


529
Alzheimer disease, aluminum and, 164
Amedori products, 340
American Society of Testing and Materials, protocol E 1174, 115
amino acids, 308–309
dihydroacetone on, 149
glycation, 296
hair, 253, 254
ethnicity, 30
in sunless tanning agents, 149
aminoglycosides, 366
aminolevulinic acid
hair removal, 449
IPL with, 432
PDL laser with, 431
ammonium persulfate, 58
ammonium thioglycolate, 58, 259–260, 264
amphoteric surfactants, 104, 125, 237, 492
ascorbates
antioxidant testing, 348
anthralin, antioxidant testing, 348
anionic surfactants, 104, 237, 492
anaphylaxis, herbs causing, 285
angiogenesis
retinoids on, 18
UV radiation causing, 15
anhydrous formulations
antiperspirants, 163
mascara, 201, 205
anionic surfactants, 104, 237, 492
antrhalin, antioxidant testing, 348
antibacterials
benzoyl peroxide as, 502
in hand cleansers, 492–493, see also antimicrobial handwashes
hydroxyacids with, 354
for liposuction, 478
detergent neutralization, 163
rosacea, 514
antibacterial soaps, 85
antibiotic-resistant infections, 110
anticholinergics, 165
anticoagulants
botulinum toxin treatment and, 372
liposuction and, 471
antifungals
nail lacquers, 220
shampoos, 127, 128
antigen-presenting cells, 53, 299
anti-inflammatory agents, 295, 301–305
antioxidants as, 297–298, 299, 300
benzoyl peroxide as, 502
efficacy, 303–304
herbs, 287, 299–300, 303–304
topical formulations, 304–305
anti-inflammatory effects, LED photomodulation, 458–460
antimicrobial barrier, 6
amphoteric surfactants, 104, 125
antimicrobial handwashes, 113–114
efficacy, 114–118
antioxidants, 19, 295–301, 358, 359, 496–499
chemistry, 297
depletion, 8
freshness, 286
hydroxyacids as, 348–349
lipsticks, 197
natural ointments, 78
non-invasive assessment, 48
peptides, 310–312
Pinnell formulation, 48
protective factor, 48, 49
retinoids as, 329, 330
topical formulations, 300–301, 303–305
vitamin E as, 297, 358
antiperspirants, 160–165
antiplatelet drugs
botulinum toxin treatment and, 372
liposuction and, 471
apocrine glands, 160, 161
apples, 292
application devices, allergy, 58
aqueous roll-ons, antiperspirants, 163
Arg-Gly-Asp-Ser (tetrapeptide), 311
arginine, dihydroacetone on, 149
arm
liposuction, 467
nonablative rejuvenation systems, 435
atopic dermatitis, 517
niacinamide on, 339–340
panthenol on, 342
rosacea, 511
tests, 136
basal layer, UV filtration, 25
basecoats, nails, 217, 218
basic soaps, 84
basophilic degeneration, 14
beads
body washes, 97–98
scrubs, 106
beard, 168
beta-carotene, 18, 358
UV radiation causing, 15
economics, 85–90
manufacture, 84
benefit agents, body washes, 97–98
benzocaine, 347–348
benzophenones, 155
benzoyl peroxide, 502–503
salicylic acid vs
stubble recreation, 188
beeswax, 196
Belotero (hyaluronic acid product), 376
Belotero Balance, 376, 377
benefit agents, body washes, 97–98
benzocaine, 347–348
benzophenones, 155
benzoyl peroxide, 502–503
salicylic acid vs
teatree oil vs
bergsamot oil, 57
β-carotene, 18, 358
β-hydroxyacids, 347, 499, 503
bicarbonate, tumescent local anesthesia, 4
70
Binimatropost, 203
binders, compact powders, 180
bioavailability
actives in shampoo, 127–128
zinc pyrithione, 129
biofilms, filler injection, 377–378
bioinstrumentation, 42, 43
biologics, 303, 305, 527
biotin, 347, 348
for dry skin, 352
on glycation, 349–350
on matrix metalloproteinases, 351
biopsy, for autologous fibroblast cell therapy, 387
Bio-Restorative Skin Cream, 321
biotin, 213
biotinyl-GHK, 312
bipolar radiofrequency devices, 451, 453–454
bite force, botulinum toxin on, 372
black henna tattoos, pPD in, 247
blade shaving, 166–173
bleaching agents
allergy, 57
for hair, 58, 240, 241, 242
ultrasound with, 70
blepharopigmentation, 203
blinded trials, see also randomized trials
botanicals, 285
blindness, from polylactic acid therapy, 393
blistering, after hair removal, 265
blood, platelet-rich plasma preparation, 385–386
blood flow, nicotinic acid on, 340, 341
blood loss, liposuction, 464, 471
blood vessels, see also microvasculature
filler injection, 377
blue light, acne, 505
Blue Peel, 400
BMDM (butyl methoxy dibenzoyl methane), 155, 493
body washes, 96–102
BoNTA, 364, 365, see also botulinum toxins with fillers, 372
topical formulation, 373
botanicals, 283–294
allergy, 57, 285
anti-inflammatories, 299–300, 303–304
clinical studies, 292–293
efficacy, 285
evaluation, 285–286
factors on quality, 284
rosacea, 515
Botox®, 364, 365, see also botulinum toxins low-protein formulation, 372
botulinum toxins, 364–374
after laser treatment, 427
allergy, 59
complications, 372–373
contraindications, 366
fillers with, 372
hyperhidrosis, 165
laser therapy with, 413
before laser treatment, 426–427
marginal mandibular branch of facial nerve, 482
before medium depth peels, 405
platysma bands, 483
bovine collagen, 60
aging hand, 486
intradermal challenge, 60
brain, somatosensory system, 39–40
Brazil, hair straightening, 265
breast, liposuction, 468–469
breast cancer
antiperspirants and, 164
male, 469
radiation dermatitis, LED photomodulation on, 459
brilliances, lips, 197
brimonidine tartrate, 514–515
brittles, mascara brushes, 202
brittle nails, 209, 210, 211, 213, 222
broad spectrum sunscreens, 18, 158, 494
bromates, perming lotions, 258
bromelain, 20–291
brow ptosis, 27
bruising
filler injection, 377
platelet-rich plasma, 387
polyactic acid therapy, 391
brushes
for cleansing, 505
dermabrasion, 440, 441, 442
mascara, 201–202, 203
buffering, see also pH
antiperspirants, 163
buffer salts, perming lotions, 257
bunny lines, botulinum toxin treatment, 370
buttocks, liposuction, 480
burning sensation, trichloroacetic acid, 407
buttocks, liposuction, 467
butyl methoxy dibenzoyl methane, 155, 493
C
Cade test, 116
caffeine, 19, 288
calcineurin, 303
calcium
on corneocytes, 8, 9
nail plate, 209
calcium hydroxylapatite, 60, 380–384, 485–491
California, regulations on solvents, 223–224
camouflage, 186–192
rosacea, 512–513
Canfield VISIA camera systems, 44
cannulas
liposuction, 470–471, 480
for polyactic acid, 391
Capacitance, 9–10
capillaries see microvasculature
carbomers, 77
Carbon Black, 205
carbon dioxide, solid, 396, 398, 402
carbon dioxide lasers, 412–428
complications, 427
dermabrasion vs, 439
on PGE-2 levels, 305
postoperative care, 427
LED photomodulation, 459
techniques, 426–427
carnosine, 310, 311, 361
carnauba wax, 196
β-carotene, 18, 358
carotenoids, 359
carriers, perming lotions, 257
Carruthers, A. and J., studies of BoNTA, 365
Castederm, 526
castor oil, 196
catagen, hair growth, 167, 252, 446
catalase, 315
cathelin-related antimicrobial peptide, 6
catechins, 17, 26
cationic emulsifiers, 76, 104, 492
cationic polymers, shampoos, 126
CCM Complex (Histogen), 321, 323
CD44, 330
CD44v3, 328
CEFerulic (SkinCeuticals), 498
celecoxib, 303
cell conditioned media (CCM), 321, 323
cell cultures
fibroblasts, 387
growth factors from, 323
Cellex-C® Eye contour cream, 513
cellular growth factors, 318–324
Centers for Disease Control, on hand hygiene, 112
central projections, sensory nervous system, 38–40
central venous catheters, colonizations, antimicrobial handwashes and, 117
centrifugation, platelet-rich plasma preparation, 386
ceramides, 5, 8, 26
CeraVe® Facial moisturizer, 512
CeraVe® Hydrating cleanser, 512
cerebral cortex, somatosensory system, 40
ceruse, 178
cervicomental angle, 476, 477, 478
cetaphil® Gentle skin cleanser, 512
Cetaphil® Moisturizing cream, 512
chamomile, 289, 506
chanterails canthaloupe, 288
charge (electrical), effect of pH, 87
cheilitis, 195
cheiloscopy, 194
chelating agents, see also neutralization
hair dyes, 246
chemical bio-availability, zinc pyrithione, 129
chemical penetration enhancers, 68
chemical reconstruction of skin scars (CROSS), 400
chemical reduction
hair straightening, 264–265
permanent waves, 251, 254, 256
chemistry
antioxidants, 297
antiperspirants, 163
hair, 253–254
UV radiation, 155
chest (male), liposuction, 469
children
hair dye allergy, 247
MRSA, hand hygiene, 118
chin, dimpled, 371
Chinese herbs, toxicity, 285
chin rests, photography, 44
chlorides, aluminum, 163
cholesterol, 8
croma (color coordinate), 188
Chromsphere™, 183, 184
chromophores, 155
laser hair removal, 446
Chrysanthellum indicum, 515
CI numbers (Color Index numbers), 219–220
circadian rhythm, 8
citrac acid, 347, 395–396
c-Jun protein, 18
classifications
hair curliness, 262, 263
photoaging, 403
rosacea, 509–510
sunscreens, 154
cleansing agents, 492–493, see also bar cleansers; hand sanitizers
acne, 501–502
adverse skin reactions, 55, 57
body washes, 96–102
eczema, 521
face, 103–109
rosacea, 511, 512
cleansing brushes, 505
cleansing cloths, 105, 106–107, 108
acne, 504
cleansing devices, 107
climate, dry skin, 89, 90
climbazole, 127
clinical studies, see also blinded trials; randomized trials
antioxidants, 304
hand microbiota removal, 116–117
herbs, 292–293
clinics, camouflage, 191
clockwise rotation, wire brushes, 441, 442
clogging, polyactic acid, 391
clostridial proteins, 365, see also botulinum toxins
clothing, UV protection factor ratings, 18, 495
C-mechano–heat nociceptors, 37
CO₂RE laser, 424
cocerates, 126–127, 129, 130
cool tar, 127, 525, 526
cobra neck, 483
coenzyme Q10, 358, 361, 498, 499
nanoemulsions, 521
c-co-factors for enzymes
vitamin B₃ derivatives, 339–340
vitamin C, 342
coffee, 288
coffeeberry extract, 288
cold air cooling, laser therapy, 427
cold sense, 36, 37
cold therapy, forehead, 373
collagen, 15, 27
aging hand, 486
fillers, 60, 376, 387
glycation, 296
hyaluronic acid fillers on, 378
low energy light on synthesis, 457
nonablative rejuvenation systems on, 429
photoaging, 14, 15, 16
radiofrequency devices on, 433, 434
vitamin C for synthesis, 497
wound healing, 437
collagen (bovine) see bovine collagen
color additives, sunless tanning agents as, 150
coloration of skin, sunless tanning agents, 150
ColorScience®, 513
Color Index numbers (CI numbers), 219–220
color measurement, 151, 187–188
color rinses, 240
colors (pigments)
body washes, 98
camouflage, 187, 513
eyelashes, 203
facial foundation, 181, 182
testing, 183–184
hair see hair dye
L*a*b* standard, CIE, 151
lipsticks, 196–197
nail cosmetics, 217, 219–220
UV-curable, 222–223
color standard chips, digital photography, 43
combination regimens, psoriasis, 526–527
combs, hair straightening, 263, 266
comedoitics
benzoyl peroxide as, 502
salicylic acid as, 503
Commission Internationale d’Eclairage, L*a*b* standard, 151
community setting, hand hygiene, 118
compact foundations, 178, 179–182
compartment syndrome, 467
complexing agents, perming lotions, 257
complexion makeup see makeup compliance
handwashing guidelines, 113
psoriasis treatment, 524
compression garments, liposuction, 472
conditioners
after hair straightening, 268
eyelashes, 206
perming, 256, 257, 258
rinse-off, 130
shampoos, 126, 237–238
for colored hair, 246
conductance, 26, 136
confocal laser scanning microscope, 50
confocal Raman microspectrometry, 72
genetal anomalies, from botanicals, 285
consent
botulinum toxin treatment, 366
liposuction, 471
medium depth peels, 405
consort dermatitis, 58
consultations
dermabrasion, 439–440
hair styling, 278
laser hair removal, 446
liposuction, 471, 478
radiofrequency therapy, 452
consumer research
body washes, 98–99
facial moisturizers, 136
contact dermatitis, 26, 52–64
diagnosis and treatment, 60
nail cosmetics, 213–214
contact lens solutions, allergy, 56
contact urticaria, 53
continuous process manufacture, bar cleansers, 84
countouring, 186, 188
controlled application tests
body washes, 99
soaps vs syndets, 90, 91
Controlled Chaos Technology”, 422
cooling
laser therapy, 427
radiofrequency therapy, 452
Cool Scan setting, laser therapy, 427
copper, 358, 360
coQ10 see coenzyme Q10
corneocytes, 3–4, 8, 25, 132–133
build-up, 86
lips, 194, 195
corneodesmosomes, 5
Corneometer®, 9–10
corneometry (conductance), 26, 136
cornified cell envelope, 4–5, 6
corrective makeup see camouflage
corrugator supercilii, 368
cortex, hair shaft, 167, 235, 251, 262
relaxers on, 268
cortical cells, hair, 251, 252
corticosteroids, 301–302
after laser therapy, 427
allergy, 57–58
body washes sparing, 101
eczema, 517
hydrocortisone, 525
psoriasis, 526, 527
cometial optimization, 129, 130
Cosmetic Ingredient Review (CTFA), 52
cosmetic intolerance syndrome see sensitive skin
costs
peptides, 310
psoriasis, 523
Sculptra®, 391
counseling, laser hair removal, 446
counter-clockwise rotation, wire brushes, 441
couplers, hair dyes, 242, 243
covalent bonds, hair, 262
dreams, 75–77
  — hair styling aids, 275
  — sunless tanning agents, 149–150
critical micelle concentration, 104
critical wavelength values, UV A protection
criticism, antimicrobial handwash standards, 115
cross-linking
CROSS (chemical reconstruction of skin
criticisms, antimicrobial handwash standards,
critical wavelength values, UV A protection
criticism, antimicrobial handwash standards, 115
cross-linking
collagen, 15, 16
hyaluronic acid, 376
proteins, 6
glycation, 361
hair, 253
with lipids, 5
cross-polarized light photography, 45
cross-reactions
botanicals, 285
hair dye allergy, 248
crow’s feet, botulinum toxin treatment, 368–369
cryogen sprays, see also refrigerant sprays
radiofrequency therapy, 452
‘crystal’ products, 165
C-tactile afferents, 38
cucumber, 288–289
cuff sign, lipedema, 473
Cupidon arch, 194
curcumin, 291, 299, 300
curlers, 255
curliness of hair, 29–30, 251, 262, 263, see also permanent waves
cuticle
— hair, 30–31, 167, 234–235, 251, 252
 — relaxers on, 267–268
nails, 215
cutting edges, razor blades, 169–171
cyanocrylates, nail wraps, 229–230
cyclooxygenases, 302, 305
cyclosporine, 303
botulinum toxins and, 366
phototherapy and, 526
cysteamine, 58, 256
cysteine, in melanogenesis, 24
cysteine proteases, 7
L-cystine, hair, 253, 254
cytocrome P450 inhibitors, lidocaine doses and, 469
cytocromes, LED light on, 460
cytokeratins, lips, 194
cytokines, 9, 24
corticosteroids on, 301
cosmeceuticals, 320–321
inflammation, 298, 299, 305
psoriasis, 523
wound healing, 319

D
daily use moisturizers, sunless tanning agents, 151
d-a-tocopherol, 497, 498, 499, see also vitamin E
dandruff, 124, 125, 130
dappen dishes, 226–227
date palm fruit, 229
death
 — from botanicals, 285, 288
oleander, 290
rates, liposuction, 472, 473
decalcification see neutralization
decussations, sensory projections, 38
Deep FX-Lumenis laser, 415–419, 420, 427
defatting
 — medium depth peels, 405
degradable polymer gels, allergy, 59
degreasing see defatting
dehydrators, nails, 228
dehydroalanine, 266
dehydrocarbon, 343
deficiency
 — delayed hypersensitivity, hair dyes, 246
— ΔE (Euclidean distance), 151
demi-permanent hair dyes, 240–241
denaturation, hair proteins, 263–264
dendritic cells, 299
denervation, botulinum toxins, 365
deoxyribonuclease
 — 160–165
 — soaps, 85
depigmentation
 — Kligman and Willis formula, 329
 — serine protease inhibitors, 24
 — depressor anguli oris, 371, 373
 — depressor labii inferioris, paralysis, 373
 — depressor supercilii, 368
depth controlled peels, trichloroacetic acid, 400
DermaBlend® Cover, 513
dermabrasion, 437–444
dermatoparosis, 326, 330
dermis
 — alpha-hydroxyacids on, 351–352
 — lips, 194
 — melanin color, 25
 — nonablative rejuvenation systems on, 429
peels, 395
photoaging, 13, 14, 28–29
 — microvasculature, 15
 — retinoids on, 337
 — skin of color, 27
 — thickness, 34
dermopidermal junction, 27, 28
desmosomes, 5, 90
desquamation, 5, 6, 7, 8
 — by alpha-hydroxyacids, 351, 353
 — glycerol on, 135
 — hydration on, 133
 — tests, 9
detergents, see also syndets
bar cleansers, 83, 86
shampoos, 237
developers, hair dyes, 243
DHBB (diethylamino hydroxybenzoyl hexyl benzateo), 155
diabetes mellitus
 — feet, moisturizers, 143, 145
LED photomodulation on retinopathy, 459
diamond fraises, 440
dibutyl phthalate, 219
diclofenac, 302, 303
dietary nutrients, 357–363
diethylamino hydroxybenzoyl hexyl benzateo, 155
— diffusion, 66
digital photography, 42, 43–46
dihydroaceton, 148–149, 188
di-isostearylmalate, 196
dimethicone, shampoos, 237
dimethyl urea, 221
dimpled chin, 371
diode laser, 433
 — hair removal, 448
 — liposuction, 472–473
discoloration of nails, 208, 215
disinfection, schools, 118
disodium phenyl dibenzimidazole tetratsulfonate, 156
distal phalanx, 209
disulfide bonds, hair proteins, 253, 254, 255
DNA, UV radiation on, 14–15, 16, 53
docosahexaenoic acid, 358
dopaquinone, 24
dorsal horn, 38
double chin, 28, 476
double edge razors, 169
double-sided mascara products, 201
Dove bar, 85, 90
downturned smile, 371, 373
doxycycline, rosacea, 514
DPDT (disodium phenyl dibenzimidazole tetratsulfonate), 156
dressings
 — after dermabrasion, 442
 — after liposuction, 481
 — driving, occupational, 15
drometizole trisiloxane, 356
 — drug history, 471
 — dry cleansing cloths, 105, 107
 — dry-hair shampoos, 237
 — dry ice see carbon dioxide
dry skin, 88–90
 — body washes, performance, 98–100
 — face, 132–133
 — facial cleansers, 109
 — genetics, 93–94
 — hand moisturizers on, 143, 144
 — lips, 195
 — pigmentation and, 26
 — rosacea, 511
 — soaps, 85
 — syndet bars, 87
 — water paradox, 86, 88, 89–90
 — D-squames, 136
 — DTS (drometizole trisiloxane), 155–156

Index
dyes see colors; hair dyes
dyschromia, 208
dysphagia, from botulinum toxin treatment, 371, 373
Dysport®, 364, 365–366
endpapers, perming, 256
endocuticle, African hair, 31
EN 1499 and EN 1500 (protocols), 115
emulsions, 75–76, 77, 104
emulsifiers, 107, 108
emulsion, 75, 76, 77, 104
emotionalFeedback, radiofrequency therapy, 452
encephalin, 312
entropion, 200
enzymes, 314–315
co-factors
vitamin B3 derivatives, 339–340
vitamin C, 343
lip skin surface, 194, 195
proteolytic, 7, 314
epidermal growth factor receptor, curcumin on, 299
epidermis, 3–12, see also barrier functions of epidermis; transepidermal delivery;
tricircular protection water loss
alpha-hydroxyacids on, 351
labial, 194
melanin color, 25
photoaging, 13, 14, 28
skin of color, 25–26
epinephrine, tumescent local anesthesia, 469
erythematotelangiectatic rosacea, 509, 511
erythromelalgia, 149
erythema
after peels, 407
antioxidant assessment, 48
body washes on, 100
camouflage, 191
LED photomodulation on, 458–459
rosacea, 514–515
eritymato-telangiectatic rosacea, 509, 511
erythromelalgia, 149
essences, facial foundation, 179
essential oils
acne, 506
for percutaneous delivery, 68
estradiol, percutaneous delivery, 73
Eytoff, N., Survival of the Prettiest, 492
eyliners, 199, 204
eyelashes, 203
eyebrows, 203
lateral brow lift, 370
ptosis, 372
unilateral raised, 372–373
eyelashes, 200
cosmetics, 199, 201–203
extensions, 203
eyelids
aging, 27
cucumber, 288
dermatitis, 56, 58
jelly rolls, 369
tosis, 368, 373
radiofrequency therapy, 453
tattooing, 203
trichloroacetic acid, 406
eyeliner, 199, 204
eyeshadow, 199, 204

F
face, see also specific resurfacing techniques
aging, 27–28, 375, 380
botulinum toxin treatment, 366–373
cleaners, 103–109
selection guide, 107–109
fillers, 375
foundations, 177–185, see also makeup
rosacea, 512–513
moisturizers, 132–138
sensory perception, 33, 39
washing, 493
facial nerve, liposuction and, 468, 476–477,
480, 482
Fair Packaging and Labeling Act, 52
false eyelashes, 202–203
famiclovir, 405
farnesol, 68
fats, dietary excess, 358
fat transplantation, 388, 483, 486
fatty acids, 68
free, 8
Malassezia yeasts on, 124
omega-3, 358, 360, 361
peroxidation, 296
soaps, 94, 97
volatile, 160
neutralization, 163
Federal Food, Drug and Cosmetic Act, 52
feedback, radiofrequency therapy, 452
feel modifiers, body washes, 98
feet
  moisturizers, 143–144, 145
  skin, 139
ferulic acid, 498, 499
feverfew, 289
fibers
  cleansing cloths, 106–107
  in mascaras, 201
fibroblast growth factors, 320, 321
fibroblasts, 16–17
  autologous cell therapy, 387–388
  hyaluronic acid fillers on, 378
  low energy light on, 456–457
  Nd:YAG laser on, 432
  skin of color, 27
  vitamin C on, 497
Fibrocell Science, Inc., 387
fibroplastic response, calcium hydroxylapatite,
  360
fibrous tissue, liposuction, 470–471
Fick’s law, 66
fig leaves, 57
filaggrin, 5, 6, 9, 53, 93–94, 140, 518
filing, nails, 212, 228, 232
Filipino hair, thiol procedure, 265
filaments, see also under hyaluronic acid
  adverse skin reactions, 53, 59
  autologous, 385–389
  botulinum toxin with, 372
  calcium hydroxylapatite, 60, 380–384,
    485–491
  collagen, 60, 376, 387
  hands, 485, 486
  polyactic acid, 390–394, 486
  powders, 180, 181
  radiofrequency and nonablative therapy, 453
film-forming polymers, 272
filters, UV radiation, 154–155, see also
  sunscreens
fingerpad method, antimicrobial handwash
  assessment, 115
finishing powders, 180
firmness of skin, tests, 183
fish oils, 358, 360
Fitzpatrick skin types
  dermabrasion, 440
  peels, 404
  photoaging, 17, 25
fixing lotions, permanent waves, 254
flaking
  scalp, 124, 125
  skin, 90
flares
  psoriasis, 523
  rosacea, 510, 512
flat irons, 264
flavonoids, 358, 359
licorice, 289–290
vitamin B, 343
flaxseed, 292
f-layer, hair epicuticle, 235, 245, 251
flexibility, nails, 210
flora see bacteria; microbiota
fluorescence photography, 46
fluorescent UV nail lamps, 228
fluor-hydroxy pulse peel, 400
flushing
  nicotinic acid, 341
  rosacea, 514–515
folliculitis barbae, 172
food allergies, 55
Food and Drug Administration
  on acne drug products, 501
  on antifungals, 220
  approved fillers, 376
  Food Code, on hand hygiene, 112
  on handwashes, 113, 115
  permanent hair reduction (term), 445, 450
  regulations, 52
  antimicrobial handwashes, 114
  cosmeceuticals, 284
  medical devices, 70
  stability testing of ointments, 79
  on sunless tanning agents, 150
  sunscreen, 154, 156–157, 158
  tar products, 525
Food Drugs & Cosmetic Act, 284
food handling, hand sanitizers and, 113
food supplements see oral supplements
  forceps, for calcium hydroxyapatite treatment,
    490
  forehead, botulinum toxin treatment, 367–368,
    372–373
  foreign body reactions, fillers, 53–54, 59–60
  food allergy, 55
  on vitamin C, 497
  niacinamide on, 340
  with azelaic acid, 354
  with retinoids, 329
  topical antioxidants, 300–301, 303–305
  sunscreens, 154–155
  vitamin B3, 341
  vitamin C, 343, 497
  foundations (face), 177–185, 512–513
  fractionated CO2 laser resurfacing, 414–426
  formulations
  antiperspirants, 163, 164
  hair dyes, 242–243
  hair styling aids, 272–273
  peeling agents, 395–398, 402–403
  perm lotions, 255–258
  retinoids, 338–339
  for skin penetration, 66–67
  sunscreen, 156
  topical antioxidants, 300–301, 303–305
  with azelaic acid, 354
  rosacea, 515
  on sun sensitivity, 350
  glutathione, 297, 310–311
  glycation, 249, 296–297, 361
  hydroxy acids on, 349–350
  niacinamide on, 340
  glycercyl monothioglycolate, 58, 256, 258
  glycolic acid
  acne, 503
  on dermis, 352
  fluor-hydroxy pulse peel, 400
free radicals, 16, 295–296
  retinoids on, 329
  on vitamin C, 497
  friction, cleaning, 105
  Frigiderm, 441
  frontalis, 370
  botulinum toxin treatment, 367–368,
    372–373
  frothing
  levels, 406
  trichloroacetic acid, 396, 397, 406
fruit seeds
  body washes, 98
  scrubs, 106
  functional MRI, 40
G
  GAGs see glycosaminoglycans
  G.A. Morgan Hair Refining Cream, 265
  gastrointestinal infections, hand hygiene, 118
  geelcs, sunless tanning agents, 150
  gel hardness, hyaluronic acid product, 376
  gel matrices, bionic acids, 348
  gel polish, nail coatings, 230–231
  gels
  hair styling aids, 275, 276
  sunless tanning agents, 150
  general anesthesia, liposuction, 464
  genetics
  dry skin, 93–94
  melanogenesis, 24
  photoaging, 17
  psoriasis, 523
  genistein, 300, 499
  Gentlewaves®, 457, 458
  German chamomile, 289, 506
  Gillette safety razor, 166
  glabella
    botulinum toxin treatment, 368
    calcium hydroxyapatite and, 383
    glabridin, 290
    glabrous skin, 34, 35
    sensory perception, 34, 36
  Glogau’s classification, photoaging, 403
  glosses, lips, 197
  glow moisturizers, sunless tanning agents, 151
  glucocorticoid receptors, 301, 302
  gluconolactone, 347, 348, 495–496
  with azelaic acid, 354
  rosacea, 515
  on sun sensitivity, 350
  glutathione, 297, 310–311
  glycation, 149, 296–297, 361
  hydroxy acids on, 349–350
  niacinamide on, 340
  glycercyl, 68
  glycerol, 6–7, 134–135, 137, 518
  enhanced derivatives, 145
glycolic acid (continued)
before medium depth peel, 403
as peeling agent, 353, 354, 395–396
on sunburn cells, 350
glycols, 68, 77
glycosaminoglycans
alpha-hydroxyacids on, 351–352
hyaluronic acid as, 375
niacinamide on, 340
retinoids on, 337
glycyglycine oleamide (OGG), 289
glycolic acid, 289
Gly-His-Lys (tripeptide), 312
growth factors
growers, eyelashes, 206

H
H1N1 influenza, efficacy of handwashes, 116–117
treatment, 372
HNI, 352
HIV-associated lipoatrophy, polylactic acid therapy, 392
HIV, 58

I
active ingredients, 259
alpha-hydroxyacids on, 351–352

J
juice, 59

K
keratin, 234–235
keynes, 406
kiphalase, 59
Kohler’s meningitis, 355

L
LED photomodulation on lesions, 459
Before peels, 404, 405
high performance liquid chromatography, 114

M
moisturizers, 134–135, 140, 141, 142, 518

N
nail cosmetics, 217

P
psychoneurodermatology, 37

R
retinoids on, 337
niacinamide on, 340
alpha-hydroxyacids on, 351–352
on sunburn cells, 350, 351–355
as peeling agent, 353, 354, 395–396
on sunburn cells, 350
glycols, 68, 77
glycosaminoglycans
alpha-hydroxyacids on, 351–352
hyaluronic acid as, 375
niacinamide on, 340
retinoids on, 337
glycyglycine oleamide (OGG), 289
glycolic acid, 289
Gly-His-Lys (tripeptide), 312
growth factors
growers, eyelashes, 206

H
H1N1 influenza, efficacy of handwashes, 116–117
treatment, 372
HNI, 352
HIV-associated lipoatrophy, polylactic acid therapy, 392
HIV, 58

I
active ingredients, 259
alpha-hydroxyacids on, 351–352

J
juice, 59

K
keratin, 234–235
keynes, 406
kiphalase, 59
Kohler’s meningitis, 355

L
LED photomodulation on lesions, 459
Before peels, 404, 405
high performance liquid chromatography, 114

M
moisturizers, 134–135, 140, 141, 142, 518
nails (continued)
polishes, 212–214, 217, see also UV gels
allergy, 58
nanocapsules, 69, 70
nanoemulsions, 520–521
nanoparticles, see also microfine particles
lipids, 69
metal oxides, 155
Naphcon, for eyelid ptosis, 373
nasalis, 370
nasolabial fold, 370, 378, 383
National Ambulatory Care Survey, psoriasis, 523, 524
National Psoriasis Foundation, 523
New Drug Applications, sunscreens, 154
Neutrogena®, soap bars, 84–85
Neutrogena Helioplex™, 514
Neutrogena®, soap bars, 84–85
neutral permanent waves, 258
Neurogena®, soap bars, 84–85
Neurogena® Oil-free, 512
New Drug Applications, sunscreens, 154
niacinamide, 339–341, 344, 499, 506
Nicoderm, 506
nicotinamide adenine dinucleotide, 339
nicotinate esters, formulations, 341
nicotinic acid, on blood flow, 340, 341
niosomes, 69, 520
nitric oxide, 16
nitro-dyes, 240
nitrogen compounds, in sunless tanning agents, 149
no-base relaxers, 265
nociception, 37
nordules, Sculptra®, 59, 393
no-light gels, 230
no-lye relaxers, 266, 268
nonablative rejuvenation systems, 429–436
radiofrequency devices with, 434, 453
non-invasive techniques, skin assessment, 42–51
non-ionic surfactants, 104, 125, 492
non-polar solvents, 105
non-steroidal anti-inflammatory drugs, 302–303, 471
non-thermal photomodulation, 456
non-transfer facial foundation, 179
Norwalk virus, hand sanitizers and, 113, 118
no-rub mists, sunless tanning agents, 151
Norvalk virus, 118
nosocomial infections, handwashes and, 117–118
NSAIDs, 302–303, 471
nuclear factor kappa-B, 297, 299
corticosteroids on, 301, 302
nuclear factor of activated T cells, 305
nucleic acids
herbs modifying, 288, see also mitochondrial DNA
nurses, camouflage, 192
nutrients, dietary, 357–363

O
oatmeal, 290, 518
occlusion, for percutaneous delivery, 67
occlusives, in moisturizers, 134, 135, 140, 141, 518
occupations
formaldehyde allergy, 56
hand eczema, 58
sun exposure, 15, 493, 495
OCimple Light Therapy System MP200, 505
octopirox, 127
ocular rosacea, 510, 511
odors, prevention, 163
off-axis lighting, 44, 47
off-label uses
botulinum toxins, 364, 365
calcium hydroxylapatite, 383
OGG (glycylglycine oleamide), 327, 331
oil-in-water emulsions, 75, 76, 77, 179, 519
oils, lipsticks, 196
oily cleansers, 105
oily skin, facial cleansers, 108
ointments, 76–79, 519, 524
Olay® Complete, 512
Olay® Daily Facials, 107
oleander, 290
oligopeptides, definition, 309
omega-3 fatty acids, 358, 360, 361
OMNIFIT handpiece, Pixel CO2 laser, 423
Omnilux™, 458
onychocytes, 207
onycholysis, 208, 209, 215
onychomycosis, 213
onychorrhexis, 208
onychoschizia, 208, 210, 211
opacifiers, perming lotions, 257
ophthalmic products, allergy, 56
optical coherence tomography, 50
optical energy devices see light energy devices
optical profilometry, 46–47, 48
ORAC assays, 297
oral supplements, 357–363
vitamins, acne, 506
orbicularis oculi, 367, 368, 369, 370
orbicularis oris, 193
complications of botulinum toxin treatment, 373
organic (term), 284
organic UV filters, 155, 493
orthocortical cells, hair, 29–30
overresection, neck liposuction, 483
over-the-counter treatments
acne, 501–508
antiperspirants as, 162
psoriasis, 523–526, 527
rosacea, 510–511, 512, 513
oxalic acid, 395–396
oxazolidinones, 68
oxidation, see also auto-oxidation; peroxidation of lipids
dye formation, 242
hair straightening, 264
prevention see antioxidants
oxidative stress, 296, 329
niacinamide on, 339
from UV radiation, 7–8, 14, 16
on vitamin C, 497
oxidizing agents, hair bleaches, 58, 240
oxoretnoids, 325, 327
oxygen inhibition layers, UV-curable artificial nails, 229, 232
oxytalan fibers, 28
ozokerite, 196
P
Pacitaxel, 34
pain sense, 37
painting of nails, 212–213, 217, 218
Pal-GHK, 312
Pal-GQPR, 311, 312
Pal-KTTKS (matricine), 311
Palomar StarLux 500, 425, 426
p-aminobenzoic acid, 493
panthenol, 341–342
papaya, 290
papillary dermis, 27
alpha-hydroxyacids on, 352
papules, Sculptra®, 59, 393
papulonodular lesions, camouflage, 188
papulopustular rosacea, 509, 511
parabens, 56
paracortical cells, hair, 29
paraffin wax, 196
parallel-polarized light photography, 45
para-phenylenediamine, 246, 247
para-toluenediamine, 246
paronychia, 208, 215
paranthylene, 289
particulates, see also nanoparticles
body washes, 97–98
exfoliants, 493
scrubs, 106, 504–505
zinc pyrithione as, 128
partition coefficients, skin penetration and, 66, 300–301
patches, transdermal, 70
patch testing, 60
corticosteroids, 58
fragrances, 55
local anesthetics, 59
patting, camouflage, 188
Pears soap, 84
patella, 195
hydroxyacids on, 353
hair, 241–242
irritants used, 54
medium depth, 402–411
complications, 407–409
contraindications, 404
superficial, 395–401
pencils, eyeliners, 204
penetration enhancement vectors, 69
penetration of skin, 7, 66–71
devices enhancing, 70–71
niacinamide, 341
partition coefficients and, 66, 300–301
peptides, 310
penicillamine, 366
peptides, 308–314
analysis, 310
definition, 309
percutaneous delivery, 65–74
perfume, lipsticks, 197
perioral area, botulinum toxin treatment, 60
periorbital treatment, botulinum toxins, 371–372
periorbital treatment, botulinum toxins, 368–370
permanent dyes, hair, 58, 239, 240–241, 242–243
permanent hair reduction (term), 445, 450
permanent waves, 58, 251–261
technique, 256, 258
permeability barrier, 5
drug routes across, 7
perming, eyelashes, 203
perming lotions, 254
peroxidation of lipids, 16, 295–296
carotenoids on, 359
in vitro model, 349
peroxisome proliferator activator receptor, 9
persistent pigment darkening methods, 158
petrolatum, 77, 78, 135, 518
body washes depositing, 98, 100–101
cleansing cloths, 107
pH, see also buffering
antimicrobial handwashes, 114
bar cleansers, 86–88, 89
hair, 253, 256
neutralizing shampoos, 267
skin penetration and, 66
soaps, 84, 85, 86–88
stratum corneum, 9
sulfites, 265
sunless tanning agents, 149
surfactants, 104
phase separation, body washes, 97
phenol, 353
phenylmercuric acetate, 23
phenyl side chain, alpha-hydroxyacids, 346–347
pheomelanin, 7, 23, 241
phenyl side chain, alpha-hydroxyacids, 346–347
photobiology, retinoids, 328
photodamage
mildness of cleansing, 92
nutrients for, 360, 497, 499
photodynamic therapy
hair removal, 449
LED light, 459–460
photoepilation, 445–450
photography, digital, 42, 43–46
photoinitiators, nail lacquers, 222, 223
photomodulation, by light-emitting diodes, 456–462
photoprotection, see also sunscreens
golden fern, 289
herbs for, 287
photoreactivity, 155
photo-stabilizers, 155
phototherapy, psoriasis, 526
phototoxic dermatitis, 53
phynoderm, 326, 328
phymatous rosacea, 509, 511
physical cleaning, 105, 108
physical penetration enhancers, 69
phytotoxins, 323
phytophotodermatitis, 53, 57
pigmentation, 23–32
hair, 241–242
hydroxyacids on, 353
lips, defects, 195
p-phenylenediamine, 58
pregnancy see congenital anomalies
prejowl sulcus, 476
preservatives
allergy, 55–56
facial foundation, 182
lipsticks, 197
moisturizers, 134, 136
sunless tanning agents, 150

protease inhibitors, 7, 8
protease-activated receptor 2 (PAR-2), 24–25
proaggregin, 17
probiotics, 289
Propionibacterium acnes, 111
propellants, hairsprays, 273–274
Pro-Lys-Glu-Lys (tetrapeptide), 314
pro-ligands, 326–328
progerin, 17
procollagen, 15, 16
procerus, 368
probability, efficacy, 285
priming, for peeling, 398
primary sunscreens, 153
primary intermediates, hair dyes, 242
prevalence, hair dye allergy, 246–247
pre-test, hair dyes, 245, 247, 248

Propionibacterium acnes, 111
probiotics, 289
propellants, hairsprays, 273–274
Pro-Lys-Glu-Lys (tetrapeptide), 314
pro-ligands, 326–328
progerin, 17
procollagen, 15, 16
procerus, 368
probability, efficacy, 285
priming, for peeling, 398
primary sunscreens, 153
primary intermediates, hair dyes, 242
prevalence, hair dye allergy, 246–247
pre-test, hair dyes, 245, 247, 248

psychological effects, hair dyes, 244
psychophysical channels, sensory perception, 34
psychosocial stress, psoriasis, 523
ptosis
breast, 469
eyebrows, 27, 372

psychosocial stress, psoriasis, 523
ptosis
breast, 469
eyebrows, 27, 372
eyelids, 368, 373
irradiated light devices, 433
peptides for, 313–314
submandibular glands, 483
pulse dye lasers, 430–431
collagen synthesis, 429
rosacea, 515
pump hairsprays, 273, 276
pumpkin, 291
Purpose® Gentle, 512
pumpkin, 291
pyrrole, 68
pycnogenol, 291, 358, 361
pyrrolidones, 68
pyruvic acid, 396
Q
Q-switched lasers, 413
Q-switched Nd:YAG lasers, 432
radiation dermatitis, LED photomodulation, 248
radiesse, 383, 486
radiofrequency devices
hair removal, 448
rejuvenation systems, 429, 433–434, 451–455
raking light photography, 44, 45
Raman microspectrometry, confocal, 72
randomized trials, see also blinded trials
hand hygiene, 117
RAR ligands, 325, 328, 496
razors, 166–167, 169–172
reactive oxygen species, 16, 295–297, 318
rebalancing, artificial nail enhancements, 228
receptive fields, low threshold
mechanoreceptors, 34
receptor for advanced glycation end products (RAGE), 297
re-coloring, hair, 246
recombinant growth factors, 323
reconstitution
botulinum toxins, 366
Sculptra®, 390
red light, acne, 505
reduction mammaplasty, 468
red wine, 289
reflectance confocal microscopy, 26
remitter sprays, see also cryogen sprays
dermabortion, 441
regulations, see also Food and Drug Administration
antiperspirants, 162
botanicals, 283–284
eye cosmetics, 204–205
hairsprays, 273–274
lipstick colors, 196
medical devices, 70
nail lacquer removers, 223–224
permanent waves, 258, 259
sunless tanning agents, 150, 151
sunscreens, 153–155, 156–158
relaxers, hair straightening, 265–268
removers
camouflage, 188
nail lacquers, 223–224
wet cleaning cloths as, 107
Repeat Insult Patch Test, 285
resident microbiota, 111
in vivo models, 116
resins, nail cosmetics, 213–214, 219, 221, 222, 223, 223
resorcinol, 396, 397–398
respiratory infections, hand hygiene, 118
Restylane (hyaluronic acid product), 376
resurfacing, see also nonablative rejuvenation systems; peels
with carbon dioxide lasers, 412–428
dermabration, 437–444
resveratrol, 19, 358
reticular dermis, 27
Retin A®, 359
retina, protection by LED photomodulation, 459
retinaldehyde, 328–329, 330, 338, 496
retinoic acid, 499, see also all-trans-retinoic acid
retinoids, 18, 325–335, 336–339, 359, 496
dermabration and, 440
irritation, 54, 326, 496
before medium depth peels, 405
phototherapy and, 526
rosacea, 516
retinol, 330–331, 496
retinyl esters, 239, 330–331, 338, 504
retraction, for dermabration, 441
rhology modifiers, hair styling aids, 272
rhinophyma
dermabration for, 438
phymatous rosacea, 509, 511
rhinovirus, efficacy of handwashes, 116
rhurds
application of trichloroacetic acid, 406
bipolar RF and light, 454
botulinum toxin treatment, 365, 368–369
dermabration for, 438
fractionated CO2 laser resurfacing, 415, 419–420
glycolic acid peels, 354
nonablative lasers, 429–436
riboflavin, 357
ridging, nail plate, 207
ringing gels, 275
rinse-off conditioners, 130
rubies, 447
rosemary, 291
sallowness, hydroxyacids on, 349
salicylic acid (SA), 347–348, 496
see
ptosis
sagging
safety razors, 166
Safe Cosmetics and Personal Care Products
Act, 52
safety
botulinum toxins, 366
cosmeceuticals, 284–285
dermabrasion, 443
eye cosmetics, 204–205
facial foundation, 182
hair dyes, 246–248
hairsprays, 274
hand cleansers, 118–119
lasers, 446
nasal cosmetics, 215
peels, 398, 400
peptides, 310
permanent waves, 258, 259–260
tanning beds, 526
UV lamps, 233
safety razors, 166
safflower, 292
sage, 291
sagging see ptosis
salicylic acid (SA), 347–348, 496
acne, 503
as peeling agent, 353, 396
psoriasis, 523–524, 525
for scalp, 127
technique, 397
sallowness, hydroxyacids on, 349
salt links, hair shaft keratin, 235, 262
saturation (color coordinate), 188
SCAAR FX laser treatment, 416
scalp, 124, 125
hair, 124, 168
perming lotions on, 260
scarring, see also acne
after dermabrasion, 443, 443
after peels, 407–409
camouflage, 188
dermabrasion for, 438
scents see fragrances
Schiff bases, 296
shafts, hand hygiene, 118
Sciton ProFractional lasers, 424, 425
screening, fragrances, 55
scrubbing, 53
scrubs, 105, 106, 504–505
scrubs (surgical), standards, 115
sculpting, nails, 227
Sculptra®, 59, 390–394
sebaceous glands, 167
sebaceous oil
facial cleansers to remove, 108
scalp, 124
seborrheic dermatitis, 124, 125
sebum, 167
niacinamide on, 339, 340
secondary metabolites (SM), 284, 285
sedation
dermabrasion, 442
liposuction, 479
medium depth peels, 405
seeds see fruit seeds
selective photothermolysis, 446
selenium, 358, 360, 498–499
selenium sulfide, 127
L-selenomethionine, 498–499
self-tanners see sunless tanning products
semi-permanent hair dyes, 58, 240
semi-permanent mascaras, 205
semi-permeable hydrogel dressings, 442
sensitive skin, 11, 55
hydroxyacids on, 351
LED photomodulation on, 459
retinoids, 496
rosacea, 510–511
shaving, 172
sensitization, 53
sensory perception, 33–41
irritation, 55
lips, 194
skin of color, 27
serine protease inhibitors, 24
serines, liposuction, 472
serum
hair styling aids, 276
moisturizers, 519
setting lotions, 274
setting powders, camouflage, 188
shade guides, hair dyes, 245
shampoos, 124–131, 237–238
allergy, 57
for colored hair, 246
neutralizing, 267
sharpness, razor blades, 169–170, 171
shaving, 166–173
shellac, 212–213
shiitake mushroom, 290
SIAScope, 49
signaling pathways
antioxidants on, 297–298
calcineurin, 303
corticosteroids on, 301–302
reactive oxygen species on, 296, 297
silicone oils, facial foundation, 179
silicones, see also bovine collagen artificial, 135
granulomatous reactions, 60
hair straightening, 264
hair styling aids, 276
shampoos, 237, 238
sunless tanning agents, 150
Silk’n Blue Device, 505
silymarin, 290
skin benefit agents, body washes, 97–98
SkinChip®, 10
skin diseases, see also specific diseases
dermabrasion and, 440
medium depth peels and, 404
skin-friendly emulsifiers, 76
skin type, see also Fitzpatrick skin types
facial cleansers, 105, 107–108
Smad complex, 15, 16
SmartSkin Laser, 424
SmartXide DOT (laser), 423–424
smile
downturned, 371, 373
gummy, 370
soaps, 83, 84, 96
acne, 301–302
alcohol-based hand sanitizers vs, 119
bar cleansers, 84–85, 88
body washes, 97
irritation, 55
pH, 84, 85, 86–88
superfatted, 84, 86
syndets vs, 90–94
sodium acyl isethionate see syndets
sodium hydroxide, straighteners, 265–268
sodium laurel sulfate, 55, 136
soft tissue augmentation see fillers
soil models
antimicrobial handwash standards, 115
body wash testing, 98
Solareze®, 302, 303
solar radiation see UV radiation
solid lipid nanoparticles, 69
solubility, for percutaneous delivery, 67
solubilizing agents, perming lotions, 257
solvents, 55, 105
brittle nails, 213
nail lacquers, 219, 221, 223
removers, 223–224
for percutaneous delivery, 68
toners, 106
somatosensory system, 33–41
Sonic® Skin Care Brush, 505
sorbic acid, 55
South-East Asians, photoaging, 17
soy, 291
spatial distribution, actives from shampoo, 128–129
spectrophotometry, sunless tanning agents, 151
spectroradiometers, 183
Index

vehicle controlled studies, 321
vehicle effect, skin penetration, 66–67
vellus hair, 29, 167, 446
vermilion border, 193, 194
vesicles (penetration enhancement vectors), 69
vibrations, sensory testing, 34
viral infections, 110, 113, 116, 118, see also herpes simplex; HIV-associated lipoatrophy
viscosity, ingredients altering, 98
VISIA camera systems (Canfield), 44
visible light photography, 44
vitamin(s)
oral, acne, 506
topical, 336–345
vitamin A, 325–326, 328, 336–339, 359–360
acne, 506
vitamin B3, 339–341, 344
vitamin B5, 341–342
vitamin C, 342–343, 357, 358
as anti-inflammatory, 299
on photodamage, 19, 360, 497, 499
rosacea, 497, 515
vitamin E with, 359–360, 497, 498
vitamin D, 343, 358
phototherapy and, 526
vitamin E, 343, 358, 497, 499
as antioxidant, 297, 299
UV protection, 299
with vitamin C, 359–360, 497, 498
vitamin K, 343
vitamin P, 343
vitiligo, camouflage, 188, 189
VivaScope, confocal laser scanning microscope, 50
VivoSight, optical coherence tomography, 50
volatile fatty acids, 160
neutralization, 163
volatile oils, facial foundation, 179

W
warm sense, 36
washes, see also handwashing technique
face and neck, 493
water, see also tap water
binding by hydroxyacids, 348
body washes, 97
on colored hair, 246
dry skin paradox, 86, 88, 89–90
hair and, 252–253, 256, 271–272
nail plate content, 209
resistance, sunscreens, 494
for Sculptra®, 390
water displacement, breast volume, 469
water evaporation barrier, see permeability barrier; transepidermal water loss
water-in-oil emulsions, 75–76, 77, 78, 179, 519
waterpacts, 180
waterproof mascaras, 201, 205
waxes
hair styling aids, 270, 272, 273, 274, 275–276
lipsticks, 195, 196
mascara, 201
waxy pastes, lipsticks, 196
weight reduction, liposuction vs, 464
wet cleansing cloths, 105, 107
wetness control, antiperspirants, 162–163
wet work, irritation, 55
white skin roll, lips, 194
white spots, nail cosmetic removal, 230–231
Whitfield's ointment, 348
windshield wiping technique, 481
wine, 289
wire brushes, dermabrasion, 440, 441, 442
women, shaving, 167, 172
wood pencils, eyeliners, 204
Wood's lamp examination
melanoma, 25
melasma, 401
World Health Organization, on hand hygiene, 112
wound care, after dermabrasion, 442–443
wound healing, 318–320
after dermabrasion, 437
after laser therapy, 413–414
after medium depth peels, 407
LED photomodulation on, 459
nutrients for, 361
tissue repair peptides, 311–313
vitamin C on, 497
vitamin E, 358, 361
wraps, nails, 227, 229–230
wrinkles
hydroxyacids on, 353
LED photomodulation, 457–458
maltobionic acid on, 353
nonablative lasers, 431–435
nutrients for, 360, 361
photoaging, 29
raking light optical profilometry, 46–47
soaps vs syndets, 92
3D imaging systems, 50
tissue repair peptides, 311–313
vitamin C on, 497

X
xenon light bulbs, 448
Xeomin®, 364, 365
Xeol Pearl Fractionated laser, 426

Y
yellowing, niacinamide on, 340

Z
zeaxanthin, 358, 359, 361
Zeno® heating device, 505
zinc, 358, 360
acne, 506
deficiency, 357
toxicity, 506
zinc oxide, 155, 493
rosacea, 514
zinc pyrithione, 127–129, 130, 525
zirconium salts, 163
zoning, cleansing cloths, 107
zwitterionic (amphoteric) surfactants, 104, 125, 237, 492