

## A

- Abdominal aortic aneurysm (AAA), 502-503, 503b, 503f
- Aberrantly expressed cellular proteins, as tumor antigens, 311
- Abetalipoproteinemia, 784
- Abscess(es), 91  
caused by anaerobes, 382, 382b  
subareolar, recurrent, 1046
- Acanthamoeba*, 1325
- Acanthosis, 1143t  
*nigricans*, 331, 1151, 1152b  
in type 2 diabetes mellitus, 1113  
in pemphigus, 1169b-1170b
- Accessory spleens (splenunculi), 625
- Acellular amyloid deposits, 1099b
- Acetaldehyde, oxidation of ethanol to produce, 418
- Acetaminophen, toxicity of, 422, 422f
- Acetylsalicylic acid, 422-423
- Achalasia, 753-754
- Achondrogenesis, 1184t
- Achondroplasia, 1184, 1184t
- Acid hydrolases, 149
- Acid proteases, in inflammation, 80-81
- Acidophil bodies, 823, 823f
- Acinar cell carcinoma, 895
- Acinus, 675f
- Acne vulgaris, 1172-1173, 1173b, 1174f
- Acoustic neuroma, 1247
- Acquired genetic alterations, indications for analysis of, 175
- Acquired immunodeficiency syndrome (AIDS), 243-256  
acute retroviral syndrome, 250-252  
clinical features of, 252-256  
epidemiology of, 244-245  
Kaposi sarcoma and, 253-254  
lymphomas in, 254-255  
major abnormalities of immune function in, 249t  
morphology of, 256b  
opportunistic infections with, 252-253, 253t  
pathogenesis of, 245-248, 256b  
peripheral neuropathy in, 1232  
transmission of, 244-245  
tumors in, 253
- ACTH. *See* Adrenocorticotropic hormone.
- Actin, in myocardium, 524
- Actin microfilaments, 11
- Actinic band keratopathy, 1325
- Actinic cheilitis, 1154b
- Actinic keratosis, 1154, 1154b, 1154f
- Active plaques, in multiple sclerosis, 1284b-1285b
- Active transport, 9
- Acute antibody-mediated rejection, 233, 233b-234b, 235f
- Acute arthritis, 1216, 1216b
- Acute axonal injury, 1229f
- Acute cellular rejection, 233, 233b-234b
- Acute chest syndrome, in sickle cell disease, 637-638
- Acute cholecystitis, 877-878  
morphology of, 878b
- Acute coronary syndromes, 539
- Acute disseminated encephalomyelitis, 1286, 1286b
- Acute eczematous dermatitis, 1163, 1163b-1164b, 1164f  
stages of development, 1163f
- Acute fatty liver of pregnancy (AFLP), 866  
morphology of, 866b
- Acute hemolytic reactions, 665-666
- Acute hemorrhagic leukoencephalitis of Weston Hurst. *See* Acute necrotizing hemorrhagic encephalomyelitis.
- Acute hepatitis, 838f
- Acute illness and malnutrition, 433
- Acute inflammation, 71, 73-93  
features of, 71t  
inflammatory chemokines in, 87  
vascular reactions in, 75b
- Acute inflammatory demyelinating polyneuropathy. *See* Guillain-Barré syndrome.
- Acute inflammatory dermatoses, 1162-1164
- Acute kidney injury, 898
- Acute liver failure, 825-827, 830
- Acute lung injury (ALI), 672-674, 673b
- Acute lymphoblastic leukemia/lymphoma (ALLs), 590-593, 592f, 598b  
morphology of, 591b-592b
- Acute myeloid leukemia (AML), 586, 611-614, 613f, 621b  
major subtypes of, 612t, 613f  
morphology of, 613b
- Acute necrotizing hemorrhagic encephalomyelitis, 1286, 1286b
- Acute neuronal injury, 1252b-1253b
- Acute nonspecific lymphadenitis, 584-585
- Acute-phase proteins, 99
- Acute-phase reactants, 702
- Acute-phase response, in inflammation, 99
- Acute plaque change, 500
- Acute promyelocytic leukemia (APML), 317, 318f
- Acute radiation syndromes, 430, 431t
- Acute rejection, 233b-234b
- Acute respiratory distress syndrome (ARDS), 133, 672-674, 672t, 673f, 674b
- Acute tubular injury (kidney), 927-929, 929b  
clinical course of, 929  
morphology of, 928b-929b, 928f  
pathogenesis of, 927-928, 927f
- AD. *See* Alzheimer disease (AD).
- ADAM (a disintegrin and metalloproteinase), 105
- Adamantinomatous craniopharyngioma, 1082b, 1082f
- ADAMTS13, 660, 660t
- Adaptor proteins, 18
- ADCC. *See* Antibody-dependent cell-mediated cytotoxicity (ADCC).
- Addison disease, 1130-1131, 1131b
- Adenocarcinoma, 266  
of bladder, 967  
of cervix, 1005b-1006b, 1005f  
of colon, 269f  
colorectal, 810-815  
clinical features of, 813-815, 814f, 814t  
epidemiology of, 810-815  
morphology of, 813b, 813f  
pathogenesis of, 810t, 811-813, 811f, 812f  
staging of, 814t  
esophageal, 758, 758b, 759f  
gastric, 771-773, 772b, 772f  
of lung, 714  
of prostate, 983-990  
clinical course of, 988-990  
ductal, 990  
etiology and pathogenesis of, 984-985  
grading and staging of, 987-988, 987f, 988t  
incidence of, 984  
morphology of, 985b-986b, 985f, 986f, 987f
- Adenohypophysis, 1074f
- Adenoid cystic carcinoma, 1066  
of salivary glands, 746-747, 747b, 747f
- Adenoma(s), 266  
gastric, 770-771, 770b-771b  
lactational, 1048  
nephrogenic, 963-964  
pituitary, 1075-1080, 1078f  
pleomorphic, 266-267  
renal papillary, 952, 952b  
of thyroid, 269f
- Adenoma-carcinoma sequence, 320-321, 321f
- Adenomatoid tumors  
of fallopian tubes, 1022  
paratesticular, 975
- Adenomatous polyposis coli (APC). *See* Tumor suppressor genes.
- Adenomyosis, 1010-1012, 1012b
- Adenosis, of breast, 1048  
sclerosing, 1049, 1049f
- Adenosquamous carcinoma, 1066
- Adhesins, 349  
distinct to *Candida*, 386  
of *Aspergillus*, 388
- Adhesion receptors, 24
- Adhesive glycoproteins, 23, 24f
- Adipocytes  
action of, 446-447  
in energy balance, 445f  
regulation of, 447
- Adipokines, in insulin resistance, 1112
- Adiponectin, in energy balance, 446
- Adipose tissue, in energy balance, 446-447
- Adjuvants, in immune responses, 196-197