

## Index

Note: Page numbers of article and symposium titles are in boldface type.

- Abbott Bacterial Identification System (BID), 92–93, 95
- Agar replica system, for identification of bacteria, 67–89
- Aminoglycosides, staphylococci resistant to, 114
- Ampicillin, *Haemophilus influenzae* resistant to, 115
- AMS Gram-Negative Combo, for identification of *Enterobacteriaceae*, 72–74
- AMS POS Combo, for identification of *Streptococcus*, *Staphylococcus*, and *Micrococcus*, 72–74
- Anaerobe-Tek kit, for bacterial identification, 31
- Anaerobes, systems for identification of, 59–65
- AN-IDENT system, for identification of anaerobes, 28, 64–65
- Antibodies. See also *Monoclonal antibodies* and *Antigen/antibody* systems.
- Antibodies, for detection of viruses, 140–146
- Antibody assays, IgM, in detection of viruses, 147–149
- Antibody production, in hybridoma cell lines, for production of viral antisera, 147
- Antigen/antibody systems, for bacterial identification, 20–21, 23, 27, 44–55
- API system, for identification of *Enterobacteriaceae*, 26, 28
- API 20A system, for identification of anaerobes, 59–65
- Autobac IDX system, for identification of gram-negative bacteria, 94–95
- Automicrobial system, for bacterial identification, 93–94
- Bacteremia, in the compromised host, identification of, 163–164
- Bacteria. See also *Microorganisms*.
- anaerobes, systems for identification of, 59–65
- identification of. See also specific types.
- antigen/antibody-related systems for, 20–21, 23, 27, 44–55
- commercial systems for, 19–58
- direct differential tests for, 4–8
- direct microscopy for, 4
- indirect differential tests for, 8–13
- instrumentation systems for, 87, 91–97
- media-related commercial systems for, 19–20, 22, 26–44
- microdilution and agar replicating systems for, 67–89
- recombinant DNA for, 99–107
- simple and rapid methods for, 3–17
- systems for, symposium on, 3–107
- Bacteroides*, resistance of, 116
- Bactigen products, for bacterial identification, 44–45
- BBL Microbiology Systems, for bacterial identification, 45–46
- BBL Pneumoslide test, for identification of *Streptococcus pneumoniae*, 45
- BBL Staphyloslide test, for identification of *Staphylococcus aureus*, 45
- Beta-lactamase, role in bacterial resistance, 116–117
- BID system. See *Abbott bacterial identification system*.
- Bile solubility test, for bacterial identification, 4–5
- Blood, infections of, in the compromised host, 163–164
- Calas, for identification of *Cryptococcus neoformans*, 50
- Campylobacter jejuni*, DNA probes for identification of, 103
- Candida albicans*, laboratory identification of, 180–181

- Candida albicans* (Continued)  
test to identify germ-tube formation by, 12
- Candida* immunodiffusion system, 50
- Candidiasis, identification of organisms causing, 180–181
- Cand-Tec tests, for bacterial identification, 46
- Central nervous system, infections of, in the compromised host, 161–163
- Chlamydia trachomatis*, monoclonal antibodies used to identify, 104, 105  
sexually transmitted, 127–131
- Clindamycin, *Bacteroides fragilis* resistant to, 116
- Cloning, of genes, for identification of microorganisms, 100–104
- Clostridium*, Sceptor Systems' Anaerobe panel for identification of, 77
- Coagulase test, to identify *Staphylococcus aureus*, 12–13
- Coccidioides immitis*, tests for identification of, 49
- Compromised host, infections in, microbiologic aspects of, 157–165
- Condylomata acuminatum, 126–127
- Corynebacteria, resistance of, 115
- Cryptococcus neoformans*, Calas to identify, 50
- Culture, in diagnosis of dermatophytes, 172–180
- Culturette kit, for identification of group A *Streptococcus*, 46
- Dermatophytes, diagnosis of, 168–180  
by direct microscopy, 168–172  
use of cultures in, 172–180
- Diagnosis. See entries under specific tests and specific microorganisms.
- Directigen test kits, for bacterial identification, 46–47
- DMS rapid test kits, for bacterial identification, 36
- DNA probes, for identification of microorganisms, 99–107  
compared with monoclonal antibodies, 105–107
- Electron microscopy, for rapid viral diagnosis, 138–139
- ELISA. See *Enzyme-linked immunosorbent assays*.
- Endo-Staph kit, for identification of *Staphylococcus aureus*, 48–49
- Enteric-Tek plate, for identification of *Enterobacteriaceae*, 30
- Enterobacteriaceae, identification of, AMS Gram-Negative Combo for, 72–74  
API system for, 26, 28  
Enteric-Tek plate for, 30  
Enterotube II for, 43  
Gram-negative UTI MIC/ID panel for, 68–69  
MICRO-ID system for, 32  
Minitek system for, 34  
rapid DMS test kits for, 36  
R/B Enteric Differential System for, 30  
Repliscan system for, 83–85  
Sceptor Systems' panels for, 77–80  
Sensititre system for, 81–83  
tests to identify, 15, 26, 28, 30, 32, 34, 36, 43, 68–69, 72–74, 77–85
- Enterococcus*, resistance of, 114–115
- Enterotube II, for identification of *Enterobacteriaceae*, 43
- Enzyme immunoassays, for rapid viral diagnosis, 142–145
- Enzyme-linked immunosorbent assays, for rapid viral diagnosis, 143–145
- Escherichia coli*, RIM kit for identification of, 42
- Fungal immunodiffusion system, 50
- Fungal infections, superficial, laboratory diagnosis of, 167–186
- Gardnerella vaginalis*, RIM kit for identification of, 42
- Genes, cloning of, for identification of microorganisms, 100–104
- Genital infections. See *Sexually transmitted diseases*.
- Germ tubes, formation of, by *Candida albicans*, 12
- Gonococcus*, resistance of, 115
- Gonozyme kit, for identification of *Neisseria gonorrhoeae*, 47–48
- Gram-Negative UTI MIC/ID panel, for identification of *Enterobacteriaceae*, 68–69
- Gram-Positive MIC Plus panel, for identification of *Staphylococcus*, *Streptococcus*, and *Micrococcus*, 68, 70–72
- Haemophilus influenzae*, Phadebact test for identification of, 52  
resistance of, 115–116
- Hawn and Beebe direct bile stability test, for bacterial identification, 4–5

- Hemastaph slide kit, for identification of *Staphylococcus aureus*, 53
- Herpes simplex virus infections, 121–126
- HNID system, for bacterial identification, 32
- Immunoelectron microscopy, for direct detection of viruses, 139–140
- Immunofluorescence staining, for rapid viral diagnosis, 140–142
- Immunoperoxidase staining, for rapid viral diagnosis, 142–143
- Indole test, indirect, for bacterial identification, 10
- Indole-Spot test, for bacterial identification, 6–7
- Infections. See also *Viral infections*.  
 dermatophytes, 168–180  
 in the compromised host, microbiologic aspects of, 157–165  
 mycoses, 181–183  
 of the blood, in the compromised host, 163–164  
 of the central nervous system, in the compromised host, 161–163  
 of the genitals. See *Sexually transmitted diseases*.  
 of the lung, in the compromised host, 157–161  
 serologic procedures for diagnosis of, 164–165  
 superficial fungal, laboratory diagnosis of, 167–186  
 viral, rapid diagnosis of, 137–156
- Instrument systems, automated, for identification of microbes, 91–97
- Klebsiella*, urease test to identify, 11
- LA-STAPH system, for identification of *Staphylococcus aureus*, 48
- Legionella*, identification of, in the compromised host, 158–159
- Lung, infections of, in the compromised host, 157–161
- Lymphogranuloma venereum, 127–129
- Lysine decarboxylase test, 10–11
- Lysostaphin reagent set, for bacterial identification, 40
- Media systems, for bacterial identification, 19–20, 22, 26–44
- Meritec-Strep test, for identification of streptococci, 49
- Methicillin, staphylococci resistant to, 114
- Methyl red test, for bacterial identification, 9
- Microbes, instrumentation systems for identification of, 87, 91–97
- Microbial resistance, *Bacteroides*, 116  
 corynebacteria, 115  
 enterococci, 114–115  
 genetic basis and mechanisms of, 112  
 gonococci, 115  
*Haemophilus influenzae*, 115–116  
 patterns of, 111–119  
 pneumococci, 113  
 staphylococci, 114
- Micrococcus*, AMS POS Combo for identification of, 72–74  
 Gram-Positive MIC Plus panel for identification of, 68, 70–72  
 Sceptor Systems' panels for identification of, 77, 79
- Microorganisms, identification of, cloning of genes for, 100–104  
 recombinant DNA and other direct specimen techniques for, 99–107
- Microdilution system, for identification of bacteria, 67–89
- MICRO-ID system, for identification of *Enterobacteriaceae*, 32
- Microscopy, direct, for diagnosis of dermatophytes, 168–172  
 for identification of bacteria, 4
- Microtube products, for bacterial identification, 33
- Minitex system, for differentiating yeasts, 35  
 for identification of anaerobes, 59–65  
 for identification of *Enterobacteriaceae*, 34  
 for identification of *Neisseria*, 34–35
- Molluscum contagiosum, 127
- Monoclonal antibodies, for identification of microorganisms, 104–107  
 compared with DNA probes, 105–107
- Murray test, for identification of gram-positive cocci, 5
- Musculoskeletal sepsis, 111–119
- Mycoses, superficial, laboratory diagnosis of, 181–183
- Nails, lesions of, identification of fungal infections causing, 179–180
- Neisseria*, Minitex system for identification of, 34–35  
 Remel rapid fermentation agar for identification of, 40  
*Neisseria gonorrhoeae*, DNA probes for identification of, 100  
 Gonozyme kit for identification of, 47–48

- Neisseria gonorrhoeae* (Continued)  
 monoclonal antibodies used to identify, 105  
 Phadebact test for identification of, 52  
 Nongonococcal urethritis, 129
- Ornithine decarboxylase test, 10–11  
 Oxidase test, for bacterial identification, 5–6  
 OXI/FERM tube, for bacterial identification, 43–44
- Penicillin, *Bacteroides* resistant to, 116  
 gonococci resistant to, 115  
 pneumococci resistant to, 113  
 Phadebact test, for identification of *Haemophilus influenzae*, 52  
 for identification of *Neisseria gonorrhoeae*, 52  
 for identification of streptococci, 50–51  
 Piedra, laboratory diagnosis of, 183  
 Pneumococcus, resistance of, 113  
*Pneumocystis*, identification of, in the compromised host, 158–159  
 Pneumonia, identification of, in the compromised host, 157–161  
 Potassium hydroxide slide technique, for diagnosis of dermatophytes, 168–170  
 PRAS II System, for bacterial identification, 35  
 Pregnancy, herpes simplex virus infections in, 124–125  
 Probes, DNA, for bacterial identification, 99–107  
 Pseudo-Palette plate, for bacterial identification, 36
- Radioimmunoassays, for rapid viral diagnosis, 145–146  
 Rapid DMS test kits. See DMS.  
 Rapid NFT test, for bacterial identification, 37  
 Rapid NH system, for bacterial identification, 37  
 Rapid SST test, for bacterial identification, 37  
 Rapid STREP, for bacterial identification, 37  
 R/B Enteric Differential System, for identification of *Enterobacteriaceae*, 30  
 R/B screen, for identification of *Salmonella* and *Shigella*, 30  
 Reagents, immune, for detection of viral infections, 146–147  
 Recombinant DNA, for identification of microorganisms, 99–107
- Remel Quads, for bacterial identification, 38  
 Remel rapid fermentation agar, for identification of *Neisseria*, 40  
 Repliscan system, for identification of *Enterobacteriaceae*, 83–85  
 RIM kits, for bacterial identification, 41–43
- Salmonella*, R/B screen for, 30  
 Scalp, lesions of, identification of fungal infections causing, 178–179  
 Sceptor Systems' Anaerobe panel, for identification of *Clostridium*, 77  
 Sceptor Systems' panels, for identification of *Enterobacteriaceae*, 77–80  
 for identification of gram-positive bacilli, 77, 79  
 Sensititre system, for identification of *Enterobacteriaceae*, 81–83  
 Sepsis, musculoskeletal, 111–119  
 Sero Stat Staph test, for identification of *Staphylococcus aureus*, 53  
 Serologic procedures, for diagnosis of infections, 164–165  
 Sexually transmitted diseases, 121–135  
*Chlamydia trachomatis* infections, 127–131  
 condylomata acuminatum, 126–127  
 herpes simplex virus, 121–126  
 lymphogranuloma venereum, 127–129  
 molluscum contagiosum, 127  
 nongonococcal urethritis, 129  
*Shigella*, R/B screen for, 30  
 STAPH-ASE test, for identification of staphylococci, 29  
 STAPH-IDENT strip, for identification of staphylococci, 29  
 STAPH Trac strip, for identification of *Staphylococcus aureus*, 37  
*Staphylococcus*, identification of, AMS POS Combo for, 72–74  
 Gram-Positive MIC Plus panel for, 68, 70–72  
 lysostaphin reagent set for, 40  
 Sceptor Systems' panels for, 77, 79  
 STAPH-IDENT strip for, 29  
 resistance of, 114  
*Staphylococcus aureus*, identification of,  
 BBL Staphyloslide test for, 45  
 coagulase test for, 12–13  
 Endo-Staph kit for, 48–49  
 Hemastaph slide kit for, 53  
 LA-STAPH system for, 48  
 procedure for, 14  
 Sero Staph test for, 53  
 STAPH Trac strip for, 37  
 thermonuclease test for, 13  
 STREP-A-FLUOR test, 53–54  
 STREPTTEX system, 54–55

- Streptococcus*, identification of, AMS POS  
  Combo for, 72-74  
  Gram-Positive MIC Plus panel for, 68, 70-72  
  Meritec-Strep test for, 49  
  Phadebact tests for, 50-51  
  Sceptor Systems' panels for, 77, 79  
  Strep ID Quad for, 39  
  tests for, 39, 49, 50-51, 54-55, 68, 70-74
- Streptococcus pneumoniae*, identification of,  
  BBL Pneumoslide test for, 45  
  bile solubility test for, 4-5  
  STREPTO-SEC test, 54  
  STREPTOZYME test, 55
- Systems, for bacterial identification. See also  
  *Tests* and specific systems.  
  antigen/antibody related, 44-64  
  commercial, 19-58  
  media-related, 26, 28-44
- Tagged antibodies, for rapid viral diagnosis,  
  140-146
- Tests, for bacterial identification. See also  
  *Systems* and specific tests.  
  direct differential, 4-8  
  indirect differential, 8-13
- Thermonuclease test, to identify *Staphylococcus aureus*, 13
- Tinea nigra, laboratory diagnosis of, 182-183
- Tinea versicolor, laboratory diagnosis of,  
  181-182
- Uni-OF tube, for bacterial identification, 31
- Uni-Yeast-Tek kit, for identification of  
  yeasts, 31
- Urease test, to distinguish between *Klebsiella*  
  and *Enterobacter*, 11
- Venereal diseases. See *Sexually transmitted diseases*.
- Viral infections, detection of, IgM antibody  
  assays for, 147-149  
  direct detection in clinical specimens,  
  138-146  
  isolation and identification by viral culture,  
  146  
  rapid diagnosis of, 137-156  
  tests for immunity status to, 149-150
- Virus. See *Viral infections*.
- Voges-Proskauer tests, for bacterial identification,  
  direct, 7-8  
  indirect, 8-9
- Warts, venereal, 126
- Yeasts, identification of, Minitek system for,  
  35  
  Screen Quad for, 40  
  Uni-Yeast-Tek kit for, 31