

SUBJECT INDEX

Numbers refer to the abstract and bibliographic reference numbers appearing in the *Tsetse and Trypanosomiasis Information Quarterly*, volume 23 (2000). For organisations, see page 251.

Africa

- central
 - trypanosomiasis in humans, 11596
 - control, 11340
- East
 - trypanosomiasis in humans, 11202
 - tsetse control, 11338
- southern
 - trypanosomiasis control, 11359
 - trypanosomiasis in cattle, 11359
 - tsetse control, 11338, 11359
- sub-Saharan
 - tsetse control
 - effect on non-target organisms, 11477
- trypanosomiasis
 - control, costs, 11454
 - in humans, 11338
- West
 - G. p. palpalis* in, 11219
 - trypanosomiasis in cattle, 11216
 - trypanosomiasis in humans, control, 11340
 - trypanotolerance in cattle, 11592
 - tsetse control, 11338

Angola

- trypanosomiasis in humans, 11381, 11451
 - gambiense*, 11495, 11498, 11630
 - Quiçama focus, 11495

antibodies

- see also* immune response
- anti-*T. evansi* equine, 11266
- complement-fixing, 11257
- detection
 - by indirect ELISA, 11633
 - in CSF, 11232
 - in diagnosis, 11240, 11266
 - in serum, 11232
- IgG, 11247
- in human trypanosomiasis
 - anti-galactocerebroside, 11627, 11628
 - in serum and CSF, 11627, 11628
 - auto-, 11628
- in *T. evansi*-infected camels, 11389
- monoclonal, 11275
 - in diagnostic tests, 11388
- neutralising, 11271
- non-specific

- IgM, 11247
- parasite-specific isotypes
 - IgG, 11254
 - IgM, 11254
- polyclonal, 11275
- antigen**
 - see also* variant surface glycoprotein
 - trypanosome
 - circulating, 11389, 11391
 - detection, 11388, 11389, 11391
 - in diagnosis, 11231, 11240, 11242, 11244, 11388, 11389
 - in ELISA, 11388, 11391
 - soluble
 - in *T. evansi*-infected guinea pigs, 11409
 - T. b. gambiense*, 11232, 11240
 - T. b. rhodesiense*, 11231
 - T. evansi*, 11242
 - circulating, 11257
 - variable surface, 11232

antigenic variants

- T. brucei*, sequential dominance, 11301

antigenic variation

- in African trypanosomes, 11713
- T. brucei*, 11328, 11438, 11447

attractants/attractiveness for tsetse

- 11337, 11362
- host animal, 11363
- ox odour, synthetic, 11473, 11474
- targets, coloured, 11472
- Vavoua traps, 11222

autosterilisation, tsetse

- 11363

Bacillus thuringiensis

- δ -endotoxin
 - effect on *G. m. morsitans*, 11223

baits

- 11610
- see also* odour attractants
- acetone, 11220
- catch, 11357
- mobile, 11357
- 1-octen-3-ol, 11220
- techniques, 11359

barriers

- insecticide-treated, 11502

- odour-baited, 11502
- barriers to re-invasion** 11368
 - insecticide-treated cattle
 - evaluation, Zimbabwe, 11224
 - insecticide-treated odour-baited targets
 - efficacy, Zimbabwe, 11224
- biting flies**
 - density, Ethiopia, 11512
- Botswana**
 - G. m. centralis* in, 11371, 11595
 - Okavango delta
 - tsetse control, 11595
 - trypanosomiasis
 - in animals, 11595
 - in cattle, incidence, 11371
 - in humans, 11371, 11595
 - tsetse control, 11371
- buffalo**
 - Cape, serum trypanocidal activity, 11642
 - T. brucei* infection, 11260
 - T. congolense* infection, 11260
 - trypanosome infection
 - immune response, 11260
 - trypanotolerance, 11260
- Burkina Faso**
 - Bobo-Dioulasso
 - trypanosomiasis in humans, 11496
 - cattle productivity, 11200
 - G. m. submorsitans* in, 11200, 11455
 - G. p. gambiensis* in, 11216, 11217, 11465, 11471, 11607, 11609
 - G. tachinoides* in, 11200, 11455, 11609
 - Sideradougou
 - entomological survey, 11609
 - parasitological survey, 11609
 - tsetse distribution studies, 11609
 - trypanosomiasis in cattle, 11200, 11230, 11245
 - constraint to production, 11200
 - epidemiology, 11230
 - incidence, 11200
 - tsetse control, 11200
 - tsetse infestation
 - impact on wild animal productivity, 11455
- bushbuck**
 - host for tsetse, 11489
- camels**
 - T. congolense* infection, 11264
 - T. evansi* infection, 11229, 11389, 11393, 11640
 - clinico-haematological aspects, 11640
 - diagnosis, 11204, 11238, 11239, 11240, 11243, 11246, 11389, 11507
 - distribution, 11229
 - economic significance, 11229
 - effects
 - on haematological parameters, 11504
 - on productivity, 11504
 - on protein constituents, 11504
 - electrophoretic profiles, 11507
 - epidemiology, 11203, 11229
 - immune response, 11507
 - incidence, 11229
 - in Kenya, 11369
 - in Niger, 11246
 - in Nigeria, 11393
 - in Sudan, 11203, 11239
 - in Tunisia, 11507
 - prevalence, 11229, 11239, 11240, 11389
 - in Chad, 11504
 - rate, 11504
 - therapy, drug, 11204, 11369
 - transmission, 11203
 - T. evansi* infection (exp.)
 - C3 characterisation, 11256
 - complement depletion, 11257
 - drug treatment, 11257, 11261
 - immune response, 11256, 11257
 - trypanosomiasis
 - aetiology, 11639
 - blood constituents, 11636
 - control, 11639
 - diagnosis, 11243, 11246, 11639
 - epidemiology, 11639
 - in Chad, 11504
 - in Kenya, 11264
 - pathology, 11639
 - prevalence, Uganda, 11243
 - ruminal constituents, 11636
 - treatment, 11639
 - failure, 11264
- Cameroon**
 - reservoir of human infection, 11621
 - trypanosome infection in wild animals
 - prevalence, 11621
 - trypanosomiasis in humans, 11616
 - Bafia focus, 11458
 - Bipindi focus, 11616, 11621
 - Campo focus, 11493, 11624
 - epidemics, 11458
 - gambiense*, 11624
 - prevalence, 11615
- cattle**
 - as reservoir hosts, 11396
 - Boran
 - treatment with homidium bromide
 - pharmacokinetic studies, 11403
 - T. congolense* infection

- cytokine responses, 11252
- immune response, 11247, 11259
- T. congolense* infection (exp.)
 - changes in blood and bone marrow, 11638
 - macrophage function, 11635
- trypanosusceptibility, 11252, 11259, 11635, 11638
- distribution mapping, Burkina Faso, 11230
- Friesian
 - treatment with homidium bromide
 - pharmacokinetic studies, 11403
- Gobra zebu
 - exposure to trypanosomiasis challenge
 - clinical response, 11637
 - parasitological response, 11637
- trypanosusceptibility, 11594
- Gobra × N'Dama crossbred
 - exposure to trypanosomiasis challenge
 - clinical response, 11637
 - parasitological response, 11637
- insecticide-treated
 - barriers to re-invasion, 11224
 - sentinel herds, 11224
- N'Dama
 - drug treatment, prophylactic, 11263
 - exposure to trypanosomiasis challenge
 - clinical response, 11637
 - parasitological response, 11637
- productivity
 - in Ghana, 11199
 - in Senegal, 11248
- trypanoresistance, 11590
- T. congolense* challenge (exp.)
 - effect on health and productivity, 11251
 - susceptibility to, 11251
- T. congolense* infection, 11335
- T. congolense* infection (exp.)
 - changes in blood and bone marrow, 11638
 - cytokine responses, 11252
 - effect of body condition, 11394
 - effect of nutrition, 11394
 - effect on health and productivity, 11394
 - immune response, 11259
 - macrophage function, 11635
- T. congolense/T. vivax* superchallenge (exp.)
 - effect on health and productivity, 11251
 - susceptibility to, 11251
- T. vivax* challenge (exp.)
 - effect on health and productivity, 11251
 - susceptibility to, 11251
- trypanosome infection
 - effects on productivity, 11248
 - prevalence, Senegal, 11248
 - rate, Mali, 11263
- trypanosomiasis
 - in Gambia, 11335
 - incidence, Mali, 11263
- trypanotolerance, 11199, 11251, 11252, 11259, 11594
 - role of bone marrow, 11635, 11638
 - socio-economic importance, 11641
- Orma Boran
 - treatment with cypermethrin pour-on, 11611
- trypanosome infection, prevalence, 11611
- sentinel herds
 - in monitoring transmission of trypanosomes, 11370
 - in monitoring tsetse density, 11361
- treatment
 - drug
 - diminazene aceturate, 11370, 11404, 11514
 - homidium bromide, 11402, 11404
 - in control of trypanosomiasis, 11369
 - isometamidium chloride, 11404, 11514
 - Trypan, 11262
 - insecticide, 11359, 11361, 11610, 11611
 - α-cypermethrin, 11479
 - cyfluthrin, 11479
 - deltamethrin, 11200, 11221, 11224, 11339, 11370, 11479
 - dip, 11224, 11610
 - pour-on, 11200, 11224, 11361, 11611, 11612
 - Spot on, 11479
 - prophylaxis, 11610
 - isometamidium, 11263
- T. brucei* infection, 11391, 11396
- T. b. brucei* infection, 11370
- T. congolense* infection, 11360, 11370
 - effect of rinderpest vaccination, 11258
- T. vivax* infection, 11370
 - effect of rinderpest vaccination, 11258
- trypanosome infection
 - in Burkina Faso, 11488
 - rates, 11404
- cattle** (cont.)
 - trypanosome prevalence, impact, 11251
 - trypanosomiasis
 - control, 11341, 11360, 11371, 11404, 11514
 - diagnosis, 11245, 11387, 11390, 11502
 - distribution
 - Malawi, 11502
 - Uganda, 11390
 - epidemiology, 11502
 - field assessment, 11341

- impact of tsetse control, 11632
- in Africa, southern, 11359
- in Botswana, 11371
- in Burkina Faso, 11200, 11230, 11245
- in Ethiopia, 11391
- in Gambia, 11341
- in Kenya
 - incidence, 11258
 - risk, 11258
- in Malawi, 11502
- in Namibia, 11501
- in Nigeria, 11505
- in Sudan, 11404
- in Tanzania, 11610
- in Togo
 - prevalence, 11201
 - risk, 11201
 - survey, 11201
- in Uganda, 11632
- in Zambia, 11360, 11514
- in Zimbabwe
 - incidence, 11224
 - prevalence, 11224
- mixed infection, 11390
- prevalence, 11387
 - in Ethiopia, 11391
 - in Namibia, 11501
 - in Togo, 11201
 - in Uganda, 11390, 11632
 - in Zambia, 11360
 - in Zimbabwe, 11224
- prophylaxis, 11515
- risk
 - in Kenya, 11258
 - in Togo, 11201
 - in Zambia, 11360
- role of IL-4 and IL-6, 11252
- T. brucei* infection, 11200, 11390, 11505
- T. congolense* infection, 11200, 11201, 11390, 11501
- T. vivax* infection, 11200, 11201, 11390, 11501, 11505
- trypanosusceptibility
 - effect on performance, Ghana, 11199
- trypanotolerance, 11592
 - effect on performance, Ghana, 11199
 - genetics, 11397, 11398, 11399, 11400, 11401
- West African Shorthorn
 - trypanotolerance
 - socio-economic importance, 11641
- Zebu
 - mixed infection, 11392
 - productivity, Ghana, 11199
- T. brucei* infection, 11392
- T. congolense* infection, 11392
 - in Ethiopia, 11512
 - prevalence, 11512
 - productivity, 11512
 - treatment, 11512
- T. vivax* infection, 11392
- T. vivax* infection (exp.)
 - effect of artificial insemination, 11252
 - effect of lactose infused in saline, 11508
 - effect of prostaglandin F_{2α}, 11252
 - effect on oestrous activity, 11252
 - effect on ovarian activity, 11252
 - serum electrolyte alterations, 11508
- trypanosome infection
 - haematological changes, 11392
- trypanosomiasis
 - in Ethiopia, 11598, 11612
 - in Togo, 11201
 - trypanosusceptibility, 11199
- Central African Republic**
 - trypanosomiasis in humans, 11615
 - gambiense*, 11483
 - Haut Mbomou focus, 11622
 - Nola-Bilolo focus, 11615
 - Nola focus, 11622
 - Ouham focus, 11622
- central nervous system (CNS)**
 - involvement in human trypanosomiasis, 11384, 11627
- cerebrospinal fluid (CSF)**
 - drug distribution into, 11532
 - in human trypanosomiasis
 - anti-galactocerebroside antibodies in, 11627, 11628
 - cell counts, 11382, 11626, 11627
 - determination of drug levels in, 11500
 - proteins in, 11382, 11626, 11627
 - trypanosomes in, 11232, 11237, 11382, 11491, 11492, 11626, 11627
- Chad**
 - trypanosomiasis in camels, prevalence, 11504
- challenge**
 - trypanosome
 - to goats, Gambia, 11255
 - to sheep, Gambia, 11255
 - trypanosomiasis
 - to cattle, response, 11637
 - tsetse, 11368
 - to cattle,
 - response, 11637
 - Senegal, 11248
- characterisation**
 - see also* detection, identification

- isoenzyme, *T. evansi*, 11243
- of trypanosomes
 - orthogonal field alternation gel electrophoresis, 11675
 - PCR, 11488
 - recombinant DNA hybridisation, 11675
 - Trypanozoon* isolates, 11540
- procyclic transformation test
 - T. congolense*, 11264
 - T. evansi*, 11264
- chemoprophylaxis**
 - in control of trypanosomiasis, 11369
 - efficiency in cattle, 11404
- chemotherapy**
 - 1-amino-2,5-anhydro-1-deoxy-D-mannitol, 11282
 - arylamino derivatives, 11282
 - cysteine protease inhibitors, 11286, 11527
 - in control of trypanosomiasis, 11369
 - efficiency in cattle, 11404
 - in human trypanosomiasis, 11527
- chimpanzees**
 - hosts for tsetse, Tanzania, 11380
- chitin synthesis inhibitors**
 - triflumuron, 11364
- Congo (D.R. and P.R.)**
 - trypanosomiasis in humans, 11383, 11451
 - gambiense*, 11483, 11491, 11627
- control, trypanosomiasis**
 - chemoprophylaxis, 11369
 - chemotherapy, 11369
 - community participation, 11341, 11359, 11360, 11369
 - cost, 11454, 11478, 11610, 11611
 - cost-effectiveness, 11341, 11343
 - GIS in, 11336, 11340, 11388
 - in Angola, 11451, 11495
 - in Botswana, 11371, 11595
 - in Burkina Faso, 11200
 - in Cameroon, 11458
 - in Central African Republic, 11622
 - in Congo, 11451
 - in Equatorial Guinea, 11494
 - in Ethiopia, 11339, 11612
 - in Gambia, 11341
 - in Ghana, 11358
 - in Kenya, 11369, 11611
 - in Mali, 11222
 - in Sudan, breakdown, 11234
 - in Tanzania, 11610
 - in Uganda, 11478, 11491
 - in Zambia, 11360
 - integrated, 11336, 11362
 - monitoring, 11343, 11388
 - socio-economics, 11369
 - trypanocidal drugs, 11251, 11359, 11610
 - vaccine research, 11454
 - vector control, 11200, 11222, 11251, 11337, 11343, 11371, 11459, 11478, 11610, 11611, 11612
- control, tsetse** 11204
 - attractants, 11363
 - autosterilisation, 11363
 - baits, 11610
 - barriers, 11368
 - biological, 11368, 11369
 - bush clearing, 11371
 - cattle treatment, 11221, 11339, 11359, 11361, 11369, 11512, 11610, 11611
 - community participation, 11359, 11360, 11478
 - cost, 11347, 11359, 11363, 11369, 11372, 11478, 11595, 11610, 11612
 - cost-effectiveness, 11368, 11369
 - effects, 11596
 - environmental considerations, 11369
 - environmental sustainability, 11368
 - fungi, 11368
 - game destruction, 11371
 - genetic, 11350
 - GIS in, 11452
 - impact, 11452
 - on trypanosomiasis prevalence, 11632
 - in Africa
 - eastern, 11338
 - southern, 11338, 11359
 - sub-Saharan, 11477
 - western, 11338
 - in Botswana, 11371, 11595
 - in Burkina Faso, 11200
 - in Côte d'Ivoire, 11364
- control, tsetse (cont.)**
 - in Ethiopia, 11339, 11391, 11457, 11512, 11596, 11612
 - in Ghana, 11358
 - in Kenya, 11364, 11369, 11372
 - in Malawi, 11502
 - in South Africa, 11474
 - in Tanzania, 11610
 - in Uganda, 11478, 11632
 - in Zambia, 11359, 11360
 - in Zanzibar, 11388, 11613
 - Unguja Island, 11361
 - in Zimbabwe, 11211, 11212, 11221, 11359, 11364, 11365, 11479
 - insect growth regulators, 11364
 - insecticide, 11363, 11364, 11369
 - cyfluthrin, 11479
 - cypermethrin, 11479, 11480, 11611, 11612

- DDT, 11359, 11477
deltamethrin, 11200, 11221, 11339, 11365,
11370, 11479, 11480
dieldrin, 11371
dips, 11369, 11610
endosulfan, 11477
pour-on, 11369, 11611, 11612, 11613
pyrethroid, 11365, 11369, 11610, 11613
integrated, 11221, 11337, 11362, 11363,
11364, 11369
management, 11368
monitoring, 11388, 11391, 11452, 11501
nets, electric, 11212, 11220
parasite, 11363
remote sensing in, 11452
screens, 11343, 11360, 11361, 11369, 11479,
11480, 11613
socio-economics, 11368, 11369, 11595, 11612
spraying, 11364, 11610
aerial, 11359, 11478
ground, 11359, 11369, 11371
sterile insect technique, 11337, 11347, 11358,
11361, 11362, 11363, 11364, 11367, 11369,
11370, 11476, 11610, 11613
targets, 11200, 11220, 11359, 11360, 11364,
11365, 11369, 11371, 11474, 11478, 11502,
11595, 11610
traps, 11343, 11359, 11368, 11369, 11372,
11478, 11608
- Côte d'Ivoire**
Daloa
G. p. palpalis in, 11614
trypanosomiasis in humans
surveillance, 11227
transmission, 11227, 11614
epidemiological study, sheep parasites, 11241
G. longipalpis in, 11489
G. medicorum in, 11489
G. n. nigrofuscus in, 11227
G. p. pallicera in, 11227
G. p. palpalis in, 11375
G. p. gambiensis in, 11489
G. p. palpalis in, 11227, 11482, 11487, 11489
trypanosomiasis in humans, 11382, 11496,
11626
epidemiological risk, 11233
foci, 11483
Daniafla, 11487
Gagnoa, 11487
Sinfra, 11487
Vavoua, 11487
Zoukougbeu, 11482, 11487
gambiense, 11483
tsetse control, 11364
tsetse trapping, 11227
- crocodiles**
as hosts for tsetse, 11609
- culture**
T. evansi, 11204
- cyfluthrin**
effects on tsetse, 11479
- Cymelarsan**
efficacy in *T. brucei*-infected dogs and mice,
11644
- cypermethrin**
 α -
effects on tsetse, 11479
impregnated screens, 11480
pour-on cattle treatment, 11512, 11611, 11612
- DDT**
effect on non-target organisms, 11477
ground spraying, 11359
- deltamethrin**
cattle treatment, 11221, 11339, 11370
dip, 11224
pour-on, 11200, 11224
effects on tsetse, 11479
impregnated screens, 11480
on odour-baited targets, 11365
- detection**
of homidium bromide in serum
by ELISA, 11402, 11403
of trypanosomes, 11598, 11637
by dissection, 11619
by dot-ELISA, 11619
by PCR, 11381, 11382, 11492, 11503,
11619
in CSF, 11382
in diagnosis, 11381
of *T. congolense* antibodies
by indirect ELISA, 11633
of *T. evansi*, by PCR, 11648
- diagnosis**
comparison of techniques, 11238, 11239,
11240, 11243, 11245, 11246
DNA-based, 11503
evaluation of techniques, 11231, 11232, 11238,
11242, 11244, 11245, 11493, 11494
field, 11231, 11238, 11242, 11388, 11494
in animals, 11204, 11205, 11238, 11239,
11240, 11242, 11243, 11244, 11245, 11246,
11337, 11370, 11387, 11388, 11389, 11390,
11392, 11501, 11502, 11503, 11504, 11507,
11516, 11637, 11645
in humans, 11231, 11232, 11234, 11236,
11237, 11381, 11451, 11459, 11491, 11492,
11493, 11596, 11622, 11625, 11626, 11627

- parasitological, 11232, 11234, 11236, 11237, 11238, 11239, 11240, 11242, 11243, 11244, 11245, 11246, 11370, 11381, 11388, 11389, 11390, 11391, 11392, 11491, 11492, 11493, 11494, 11495, 11501, 11502, 11503, 11504, 11516, 11625, 11626, 11627, 11637
- sensitivity, 11231, 11238, 11240, 11242, 11244, 11246, 11388, 11389, 11391, 11494, 11502
- serological, 11231, 11232, 11234, 11238, 11239, 11240, 11242, 11243, 11244, 11245, 11246, 11370, 11381, 11388, 11389, 11391, 11392, 11493, 11494, 11495, 11501, 11502, 11503, 11504, 11507, 11516, 11591, 11626, 11633, 11637, 11645, 11646, 11647
- specificity, 11231, 11238, 11246, 11391, 11494
- diagnostic techniques**
- antigen detection latex agglutination (Suratex), 11240, 11242
- blood examination, 11234, 11239, 11240, 11243
- blood film, 11238, 11625
- blood smear, 11240, 11389, 11391, 11501, 11504, 11675
- buffy coat, 11239, 11245, 11390, 11675
- phase contrast, 11633
- quantitative, 11493, 11626
- CATT, 11240, 11246, 11491, 11494, 11495, 11626
- 1.3, 11493
- /EDTA, 11494
- latex, 11493
- comparison, 11626, 11633, 11645
- competitive immunoassay, 11647
- complement fixation, 11503, 11645
- cost-effectiveness, 11493
- CSF examination, 11626
- dark ground/buffy coat, 11388
- double centrifugation, 11382, 11492, 11626
- ELISA, 11243, 11244, 11392, 11501, 11502, 11503
- Ag, 11239, 11339, 11370, 11388, 11391, 11637
- antibody, 11591
- antigen detection, 11505
- competitive, 11645
- indirect, 11633
- evaluation, 11626, 11633, 11645
- formol gel test (FGT), 11238
- haematocrit capillary, 11391
- haematocrit centrifugation (HCT), 11238, 11503
- IFAT, 11494
- immune trypanolysis, 11246
- immunoblotting, 11645, 11646
- indirect haemagglutination (IHA), 11240
- indirect immunofluorescence, 11507
- KIVI, 11493, 11626
- latex agglutination (LAT), 11232, 11243, 11246, 11389
- antigen test, 11504
- latex card agglutination, 11494
- lymph examination, 11626
- lymph node fluid examination, 11234, 11237, 11493
- mercuric chloride test (MCT), 11238
- microhaematocrit centrifugation (mHCT), 11243, 11370, 11389, 11501
- microscopic examination, 11245
- miniature anion exchange centrifugation (mAEC), 11238, 11493, 11626
- modified Knott's technique (MKT), 11238
- modified single centrifugation (MSC), 11626
- mouse infectivity, 11675
- mouse inoculation, 11491
- new, 11459
- PCR, 11245, 11381, 11382, 11388, 11492, 11503, 11516
- rat inoculation, 11491
- sensitivity, 11645
- Suratex, 11240, 11242
- thick Giemsa-stained smears, 11238
- diagnostic techniques (cont.)**
- thin Giemsa-stained smears, 11238
- thymol turbidity test, 11238
- trypanosomiasis agglutination card test (TACT), 11231
- dieldrin**
- ground spraying, Botswana, 11371
- difluoromethylornithine (DFMO, eflornithine)**
- treatment
- in *T. b. brucei*-infected rabbits, 11289
- of human trypanosomiasis, 11385, 11386, 11496, 11589, 11599
- diminazene**
- sensitivity testing
- in *T. evansi*, 11284
- diminazene aceturate**
- control of animal trypanosomiasis, 11369
- resistance to, 11643
- treatment of trypanosome-infected cattle, 11370, 11404, 11512, 11514
- DNA**
- trypanosome
- amplification by PCR, 11381
- binding protein, 11422
- c, *T. brucei*, 11235
- coding sequence, 11540

- extraction method, 11226
 - hybridisation, in characterisation, 11675
 - in diagnosis, 11381, 11503
 - k
 - T. brucei*, 11265
 - T. b. gambiense*, 11307
 - T. b. rhodesiense*, 11307
 - T. evansi*, 11265, 11307
 - nucleosides, 11565
 - PCR analysis, 11415
 - probe hybridisation, 11503
 - repetitive sequences
 - RFLP analysis, 11542
 - ribosomal
 - nucleotide sequences, 11541
 - probes, 11676
 - T. brucei*, 11225
 - tsetse
 - microsatellite, polymorphism, 11216, 11465
 - mitochondrial, diversity, 11213, 11468
 - ribosomal
 - ITS-2 locus sequence analysis, 11461
 - virus, 11215
 - dogs**
 - trypanosomiasis
 - diagnosis, 11390
 - distribution, Uganda, 11390
 - in Nigeria, 11643, 11644
 - prevalence, Uganda, 11390
 - T. brucei* infection, 11390, 11643, 11644
 - T. brucei* infection (exp.)
 - drug effects, 11644
 - T. congolense* infection, 11643
 - domestic animals**
 - as reservoir hosts of human trypanosomiasis, 11202
 - hosts for tsetse, 11489
 - dourine**
 - diagnosis, 11645, 11646
 - in Ethiopia, 11503
 - T. equiperdum* infection, 11645
 - drugs**
 - chemical equivalence, 11405
 - combinations
 - isometamidium and DFMO, 11289
 - cost-effectiveness, 11515
 - designated, for human trypanosomiasis, 11342
 - detection in serum, 11402, 11403
 - development, 11596
 - effectiveness, 11515
 - failure rate
 - melarsoprol, 11499
 - in animal model of trypanosomiasis, 11410
 - pharmacokinetics
 - homidium bromide, 11402, 11403
 - prophylactic, 11263, 11515
 - regimen, 11630
 - relapse, 11498
 - resistance, 11339, 11402, 11589, 11598, 11610, 11612
 - diminazene aceturate, 11643
 - in *T. brucei*, 11563, 11570
 - in *T. b. gambiense*, 11535
 - in *T. b. rhodesiense*, 11535
 - in *T. congolense*, 11264, 11512
 - in *T. evansi*, 11264
 - isometamidium chloride, 11643
 - melarsomine, 11264
 - melarsoprol, 11386, 11563, 11599
 - quinapyramine sulphate, 11264
 - side effects, 11631
 - melarsoprol, 11498, 11639
 - sustained release device, 11263
 - therapy, 11204
 - failure, 11631
 - strategy, 11631
 - treatment protocols, 11498
- trypanocidal, 11610, 11631
 - chloroquine, 11529
 - Cymelarsan, 11644
 - DFMO, 11289, 11385, 11386, 11496, 11589, 11599
 - diminazene, 11261, 11284
 - diminazene aceturate, 11262, 11369, 11404, 11512, 11514, 11643
 - homidium bromide, 11290, 11369, 11402, 11403, 11404, 11413
 - homidium chloride, 11369, 11667
 - isometamidium, 11263, 11289, 11405, 11534
 - isometamidium chloride, 11369, 11494, 11514, 11643
 - megazol, 11283, 11526, 11665
 - melarsen oxide, 11531
 - melarsomine, 11261, 11264, 11369
 - melarsoprol, 11236, 11237, 11382, 11383, 11384, 11386, 11496, 11498, 11499, 11500, 11531, 11536, 11563, 11589, 11599, 11630, 11669
 - metronidazole, 11529
 - nitroimidazole, 11526
 - pentamidine, 11412, 11537, 11589, 11599, 11625
 - quinapyramine, 11261, 11673
 - quinapyramine sulphate, 11264
 - suramin, 11236, 11384, 11589, 11599, 11625, 11662

trypacide salts, 11369
Trypan, 11261, 11262

eflornithine *see* difluoromethylornithine
endosulfan

effect on non-target organisms, 11477

epidemics

of trypanosomiasis in humans, 11202
animal reservoirs, 11542
foci, modelling, 11542
in Angola, 11451
in Cameroon, 11458
in Congo, 11451

epidemiology

of parasites in sheep, Côte d'Ivoire, 11241
of trypanosomiasis, 11541
in camels, 11204, 11229, 11639
Chad, 11504
Sudan, 11203
in cattle, 11216, 11336
Burkina Faso, 11230
Malawi, 11502
Togo, 11201
in humans, 11340, 11343, 11482, 11487,
11493, 11542, 11614, 11615, 11616
Côte d'Ivoire, 11227
East Africa, 11202
of trypanosomes, in tsetse, 11618

Equatorial Guinea

G. caliginea in, 11470
G. p. palpalis in, 11470
trypanosomiasis in animals, 11470
trypanosomiasis in humans, 11381, 11470
gambiense, 11494
Mbini focus, 11494
tsetse trapping, 11470

ethidium *see* homidium bromide

Ethiopia

Ghibe Valley
G. m. submorsitans in, 11512
G. pallidipes in, 11512
trypanosomiasis in livestock, 11457, 11512,
11598
tsetse control, 11512, 11598
G. f. fuscipes in, 11339
G. longipennis in, 11339
G. m. submorsitans in, 11339
G. pallidipes in, 11213, 11339
G. tachinoides in, 11339
south-west
trypanosomiasis in cattle, 11612
tsetse control, 11612
trypanosomiasis in horses, prevalence, 11503
trypanosomiasis in livestock, 11391

control, 11339
prevalence, 11339, 11391
tsetse control, 11339, 11391, 11457

fly belt

common, 11360
Mozambique, 11221
Zambia, 11468
Zimbabwe, 11468

fly rounds 11348

fungi, entomopathogenic

Metarhizium anisopliae
susceptibility of tsetse to, 11366

Gambia, The

productivity of goats, 11255
productivity of sheep, 11255
trypanosomiasis
in cattle, 11335, 11341
prevalence, 11341

Gambia, The (cont.)

trypanosomiasis (cont.)
risk to goats, 11511
risk to livestock, 11255
risk to sheep, 11511
tsetse density, 11255

genetics

of trypanosomiasis in humans, 11202
of trypanotolerance, 11252, 11259, 11592
chromosomes, 11397, 11398
DNA markers, 11513
gene mapping, 11401
heritability, 11513
markers, 11397, 11398, 11399, 11401
quantitative trait loci, 11397, 11398, 11399,
11401
resistance traits, 11513
trypanosome
alleles, group-specific, 11540
chromosomes, 11415
CYC2 and *CYC3* cyclin, 11698
differential RNA elongation, 11721
diversity, 11542
DNA
PCR analysis, 11415
target sequences, 11381
exchange, 11415, 11433, 11542
gene/s, 11334, 11415, 11579
conversion, 11328
editing, 11298, 11300
expression, 11294, 11421, 11581, 11588,
11725
expression sites, 11293, 11294, 11323,
11381, 11421, 11559, 11721

- expression system, 11700
- glutamate dehydrogenase, 11300
- H2B, 11428
- marker, 11687
- novel, 11682
- phosphoenolpyruvate carboxykinase, 11725
- procyclic acidic repetitive protein, 11307, 11311
- resistance, 11459
- ribosomal RNA, 11331
- RNA, kinetoplast spliced leader, 11688
- 60S ribosomal protein L27a (L29), 11297
- transcription, 11293, 11294, 11310, 11311, 11323, 11332, 11428, 11548, 11555, 11559, 11688
- VSG, 11293, 11311, 11323, 11328, 11421, 11559, 11721
- genome, 11310, 11420, 11436, 11540
 - microsatellites, 11540
- genotype, 11415
 - composition, 11542
 - group-specific, 11540
- inheritance, 11415
- mapping, 11459
- markers, minisatellite, 11415
- ploidy, 11433
- population, 11542
- regulatory 3' untranslated region, 11425
- RNase HI, 11701, 11702
- RNA
 - binding, *cis*-splicing proteins, 11308
 - editing, 11694
 - guide, 11298
 - kinetoplast, editing, 11298
 - m, mitochondrial, editing, 11300
 - multiple transferrin receptor, 11294
 - NEO*, 11310
 - r, 11311
 - r, small subunit, maturation, 11303
 - ribosomal, genes, 11331
 - sno, U3, 11303
 - spliced leader transcript sequence
 - variation, 11674
 - t, 11318, 11333
 - t, dicistronic, precursor, 11312
 - telomere maintenance, length regulation, 11699
 - U insertion, 11298
- tsetse, 11362
 - allele frequencies, 11468
 - autosomes, 11350
 - backcrosses, 11350
 - differentiation, 11468
 - gene flow, 11216
 - genetic differentiation, 11213
 - genetic drift, 11213
 - genetic variation, 11213
 - genome characterisation, 11376
 - haplotype diversity, 11468
 - hybrid male sterility, 11350
 - isoenzyme characterisation, 11376
 - loci, 11213, 11376
 - mapping
 - haplotypes, 11213
 - linkage groups, 11209
 - Mendelian inheritance, 11216
 - mitochondrial DNA, diversity, 11213
 - phylogeny, molecular, 11461
 - size polymorphisms, 11216
 - variability, 11216
 - X chromosome, 11209, 11350
 - Y chromosome, 11350, 11376
- geographical information systems (GIS)** 11597
 - impact, modelling, 11454
 - in assessment of impact of control, 11388, 11452
 - in prediction of tsetse abundance, 11593
 - in trypanosomiasis control, 11336, 11340
 - in trypanosomiasis management, 11593
 - in tsetse distribution and abundance mapping, 11218
 - in tsetse distribution studies, 11609
- Ghana**
 - cattle profitability and efficiency, 11199
 - G. p. palpalis* in, 11358
 - G. tachinoides* in, 11358
 - trypanosomiasis in animals, 11358
 - tsetse control studies, 11358
- global positioning systems (GPS)**
 - in assessment of impact of control, 11452
- Glossina***
 - biology, 11337, 11459
 - attractants, 11362
 - bacteriome, 11208
 - biometrics, 11207
 - blood meals, 11483, 11488
 - cuticle, 11346
 - defence against trypanosome invasion, 11490
 - endosymbionts, 11347
 - bacteria, 11347
 - midgut, 11347
 - hydrocarbon profiles, 11349
 - life cycle, 11606
 - mating incompatibility, 11347
 - midgut, 11208

infection, 11490
ovary
 symbiotic bacteria, 11347
physiological age distribution, 11606, 11607
pupal stage duration, 11607
puparium, 11346
refractoriness to trypanosome infection,
 11347, 11490
reproduction, viviparous, 11606
sex, 11346
sex pheromones, 11349
species recognition, 11349
survival rate, age-dependent, 11606
survival rate, pupae, 11607
survival rates, female, 11606, 11607
symbionts, 11462
 P, *Wigglesworthia glossinidia*, 11208,
 11601
 primary, 11601
 role, 11601
 S, 11208
 secondary, 11601
 Sodalis glossinidius, 11601
 Wolbachia, 11208, 11347
 Wolbachia pipientis, 11601
transmission of nagana, 11453
T. brucei infection, 11415
T. b. gambiense infection, 11490
T. b. rhodesiense infection, 11490
T. congolense infection, 11355
T. vivax infection, 11355
trypanosome infection, 11488
 rates, 11355
trypanosome interactions, 11337
trypanosome refractoriness, 11347
vector competence, 11347, 11490
wings, 11207
control, 11204
 autosterilisation, 11363
 in Africa
 East, 11338
 southern, 11338, 11359
 West, 11338
 in Botswana, 11371
 in Burkina Faso, 11200
 in Ethiopia, 11339, 11457, 11512, 11596
 in Kenya, 11369
 in Malawi, 11502
 in Uganda, 11632
 in Zambia, 11359, 11360
 in Zimbabwe, 11221, 11359
 monitoring, 11388
 parasite release, 11363
 SIT, 11337, 11347, 11363

ecology
 abundance
 in Togo, 11593
 mapping, 11218
 density, 11336
 distribution, 11336, 11456
 mapping, 11218
 emigration, 11615
 habitats, 11355, 11363, 11456, 11502
 populations, 11456, 11606, 11607, 11615
 dynamics, 11212
 reinvansion, 11615

Glossina (cont.)

genetics, 11337, 11362
 autosomes, 11350
 backcrosses, 11350
 DNA, ribosomal, sequences, 11461
 hybrid male sterility, 11350
 phenotypes, refractory, 11347
 phylogeny, molecular, 11028, 11461
 taxonomy, monophyletic, 11028
 X chromosome, 11350
 Y chromosome, 11350
rearing, 11337, 11362, 11363

Glossina austeni

abortion rate, 11475
behaviour, 11361
 sexual, 11344
breeding rate, 11475
control, 11474, 11480
 by SIT, 11344, 11345, 11361, 11367,
 11370, 11373, 11374
cyclical transmission, 11376
ecology, 11361
eradication, 11613
gamma sterilisation, 11374, 11613
genetic/s
 characterisation, 11352
 loci, isoenzyme, 11376
 phylogeny, molecular, 11461
 Y chromosome, 11376
habitat, 11475
hydrocarbons, 11349
in South Africa, 11472, 11473, 11474, 11608
in Zanzibar, Unguja Island, 11344, 11345,
 11367, 11370, 11373, 11374, 11475, 11480,
 11613
in Zululand, 11356, 11361
isoenzyme characterisation, 11376
marking, 11344
metacyclogenesis, 11376
midgut infections, 11376
population density, 11475

pupae, 11344, 11345, 11367
rearing, mass, 11345, 11361, 11367, 11374
release, 11374
response to odour, 11473, 11474
response to traps, 11608
salivary gland infection, 11376
susceptibility to infection, 11379
trapping, 11356, 11373, 11475, 11608
T. b. brucei infection, 11376, 11379
T. congolense infection, 11376, 11379
T. vivax infection, 11379
vectorial capacity, 11376
visual response, 11474
Wolbachia infection, 11602

Glossina brevipalpis

control, 11474, 11610
habitat, 11610
in Malawi, 11502
in South Africa, 11472, 11473, 11474, 11608
in Tanzania, 11355, 11610
in Zululand, 11356
puparium, 11346
response to odour, 11474
response to traps, 11608
susceptibility to infection, 11379
trapping, 11355, 11356, 11608
T. b. brucei infection, 11379
T. congolense infection, 11379
T. vivax infection, 11379
trypanosome infection rates, 11379
visual response, 11474
Wolbachia infection, 11602

Glossina caliginea

in Equatorial Guinea, 11470
trapping, 11470

Glossina fusca

molecular phylogeny, 11208, 11461

Glossina fusca fusca

density, 11336
distribution, 11336
mapping, Togo, 11218
in Togo, 11218

Glossina fuscipes 11602

puparium, 11346
trapping, 11368

Glossina fuscipes fuscipes

flight, 11219
genetic characterisation, 11352
in Ethiopia, 11339
in Kenya, 11219
in Uganda, 11478, 11632
in Zambia, 11360
olfactory cells, 11467
response to carbon dioxide, 11219

response to odour, 11467
susceptibility to infection, 11379
trapping, 11219
T. b. brucei infection, 11379
T. congolense infection, 11379
T. vivax infection, 11379
trypanosome infection rates, 11379

Glossina longipalpis

blood meals, 11489
density, 11336
distribution, 11336
mapping, Togo, 11218
feeding, 11489
habitats, 11489
hosts, 11489
in Côte d'Ivoire, 11489
in Guinea-Bissau, 11605
in Togo, 11218

Glossina longipennis

blood meals, 11380
in Ethiopia, 11339
in Tanzania, 11380
midgut infection, 11619
proboscis infection, 11619
T. brucei infection, 11619
T. congolense infection, 11619
T. vivax infection, 11619
Wolbachia infection, 11602

Glossina medicorum

blood meals, 11489
density, 11336
distribution, 11336
mapping, Togo, 11218
feeding, 11489
habitats, 11489
hosts, 11489
in Côte d'Ivoire, 11489
in Togo, 11218

Glossina morsitans

corpora cardiaca, ultrastructure, 11464
in Tanzania, 11355
in Zimbabwe, 11224, 11356
molecular phylogeny, 11208, 11461
parturition hormone activity, 11469
trapping, 11355, 11356, 11368

Glossina morsitans centralis

accessory reproductive glands, 11215
control, 11610
DNA virus infection, effects, 11215
habitat, 11610
hybridisation experiments, 11350
in Botswana, 11371, 11595
in Namibia, 11501
in Tanzania, 11610

- in Zambia, 11360
 - larvae, 11215, 11353
 - larviposition, 11353
 - larviposition pheromones, 11353
 - mating, 11215
 - Metarhizium anisopliae* infection
 - effect of age and sex, 11366
 - pupae, 11353
 - spermatheca, 11215
 - spermatophore, 11215
 - susceptibility to infection, 11379
 - transmission, mechanical, 11486
 - trapping, 11595
 - T. b. brucei* infection, 11379, 11486
 - T. congolense* infection, 11379, 11485, 11486
 - T. vivax* infection, 11379, 11486
 - trypanosome infection rates, 11379
 - uterus, 11215
 - Wolbachia* infection, 11602
- Glossina morsitans morsitans***
- abortion rate, 11212
 - adult mortality, 11357
 - age, 11354, 11357, 11617
 - female, 11214
 - behaviour, trap-orientated, 11357
 - blood meals, 11378, 11380, 11484
 - control, 11221, 11610
 - effect of *Bacillus thuringiensis* endotoxin, 11223
 - fat content, 11214, 11348
 - feeding, 11479
 - rate, 11348
 - genetic differentiation, 11468
 - habitat, 11610
 - haematin, 11348
 - hybridisation experiments, 11350
 - in Malawi, 11502
 - in Mozambique, 11468
 - in Tanzania, 11380, 11610
 - in Zambia, 11348, 11360, 11468
 - in Zimbabwe, 11212, 11221, 11228, 11354, 11357, 11468
 - landing response, 11479
 - larvae, 11353, 11354
 - larviposition, 11353
 - larviposition pheromones, 11353
 - longevity, 11214
 - meso-procyclic index, 11484
 - metacyclic index, 11484
 - metacyclogenesis, 11376
 - Metarhizium anisopliae* infection
 - effect of age and sex, 11366
 - mitochondrial DNA diversity, 11468
 - nutritional levels, 11348
 - nutritional status, 11214
 - olfactory cells, 11467
 - oocytes, 11212
 - ovarian age, 11212, 11354
 - ovarian cycle, 11354
- Glossina morsitans morsitans* (cont.)**
- ovary, 11212
 - populations, 11468
 - pregnancy state, 11354
 - pupae, 11353
 - pupal period, 11357
 - reproductive abnormalities, 11212, 11357
 - reproductive loss, 11212
 - reproductive status, 11357
 - residual dry mass, 11214, 11348, 11354
 - response to odour, 11467
 - salivary gland infection, 11376
 - sex composition, 11357
 - sex pheromones, 11349
 - size, 11354
 - spermatheca, 11212
 - survival, female, 11214
 - trapping, 11212, 11354, 11357
 - T. brucei* infection
 - development, post-mesocyclic, 11225
 - foregut, 11225
 - midgut, 11225
 - proboscis, 11225
 - proventriculus, 11225
 - salivary gland, 11225
 - T. congolense* infection, 11228, 11263, 11484, 11617
 - mesoprocyclic index, 11377
 - metacyclic index, 11377
 - T. godfreyi* infection, 11228
 - T. simiae* infection, 11228
 - vectorial competence, 11377, 11484, 11617
 - wing fray, 11348, 11354
 - wing length, 11354
 - wing-vein length, 11348
 - Wolbachia* infection, 11602
- Glossina morsitans submorsitans***
- control, 11512
 - density, 11336
 - distribution, 11336
 - mapping, 11218
 - genetic/s
 - linkage groups I, II and III, loci, 11209
 - mapping, 11209
 - X chromosome, 11209
 - hybridisation experiments, 11350
 - in Burkina Faso, 11200, 11455
 - in Ethiopia, 11339, 11512
 - in Guinea-Bissau, 11605

- in Senegal, 11248
- in Togo, 11218
- T. congolense* infection, 11248
- T. vivax* infection, 11248
- Glossina nigrofusca nigrofusca***
- in Côte d'Ivoire, 11227
- Glossina pallicera pallicera***
- in Côte d'Ivoire, 11227
- Glossina pallidipes***
- abortion rate, 11212
- adult mortality, 11357
- age, 11357
- antenna, 11466
- behaviour, trap-orientated, 11357
- blood meals, amino acids in, 11211
- breeding structure, 11213
- capture probability, 11211
- control, 11221, 11512, 11610
- ecology, 11213
- eggs, 11210
- fat levels, 11210, 11211
- feeding, 11211, 11479
- feeding interval, 11210
- feeding probabilities, 11210
- feeding rate, 11348
- genetic/s
 - differentiation, 11213
 - drift, 11213
 - loci, 11213
 - haplotypes, 11213
 - mitochondrial DNA, diversity, 11213
 - variation, 11213
- genital armature, 11460
- habitat, 11610
- haematin, 11210, 11211
- head, 11460
- in Ethiopia, 11213, 11339, 11512
- in Kenya, 11213, 11372, 11379, 11611
- in Malawi, 11502
- in Mozambique, 11213
- in Tanzania, 11355, 11610
- in Uganda, 11460, 11600
- in Zambia, 11360
- in Zimbabwe, 11210, 11211, 11212, 11213, 11221, 11224, 11228, 11348, 11354, 11356, 11357, 11365, 11460, 11473, 11479, 11600
- landing response, 11479
- larvae, 11210, 11211, 11354
- midgut infection, 11619
- mixed infections, 11618
- morphological variation, 11600
- nutritional levels, female, 11210, 11211
- nutritional status, 11211
- olfactory cells, 11466, 11467
- oocytes, 11211, 11212
- ovarian age, 11211, 11212, 11354
- ovarian cycle, 11354
- ovary, 11210, 11212
- populations, 11213, 11460
 - allopatric, 11379, 11600
- pregnancy, 11210, 11211, 11354
- proboscis infection, 11618, 11619
- pupae, 11210
- pupal period, 11357
- reproductive abnormalities, 11212, 11357
- reproductive loss, 11212
- reproductive status, 11357
- residual dry weight (RDW), 11210, 11211
 - thoracic, 11354
- response to odour, 11466, 11467
- sex composition, 11357
- sex pheromones, 11349
- size, 11354
- spermatheca, 11212
- susceptibility to infection, 11379
- trapping, 11210, 11212, 11219, 11354, 11355, 11356, 11357, 11365, 11368, 11372
- T. brucei* infection, 11619
- T. b. brucei* infection, 11379
- T. congolense* infection, 11228, 11379, 11618, 11619
- T. godfreyi* infection, 11228, 11618
- T. simiae* infection, 11228, 11618
- T. vivax* infection, 11379, 11618, 11619
- trypanosome infection rates, 11379
- wing fray, 11354
- wing length, 11211, 11354
- Wolbachia* infection, 11602
- Glossina palpalis***
- blood meals, 11375
- hosts, 11375
- in Côte d'Ivoire, 11375
- in Nigeria, 11604
- phylogeny, molecular, 11208, 11461
- trapping, 11375, 11604
- Glossina palpalis gambiensis*** 11602
- blood meals, 11489, 11609
- breeding, 11216
- distribution, Burkina Faso, 11609
- dorsal plates, female, 11217
- feeding, 11489
- genetic/s
 - DNA polymorphisms, microsatellite, 11465
 - DNA sequences, microsatellite, 11216
 - gene flow, 11216
 - genotype, analysis, 11216
 - hybrids, × *G. p. palpalis*, 11217
 - intraspecific variability, 11465

- loci
 - size polymorphisms, 11216
 - Mendelian inheritance, 11216
 - variability, 11216
- genital armature, 11217
- habitats, 11489, 11609
- hosts, 11489, 11609
- in Burkina Faso, 11216, 11217, 11465, 11471, 11607, 11609
- in Côte d'Ivoire, 11489
- in Guinea-Bissau, 11605
- in Senegal, 11216, 11248, 11465
- in West Africa, 11216
- inferior claspers, male, 11217
- morphometrics, 11217
- ovarian age, 11471
- populations, 11465, 11471
 - natural, 11216
 - stability, 11607
- pupal period, 11471
- pupal stage duration, 11607
- survival rate, 11471
 - adult, 11607
 - pupae, 11607
- susceptibility to infection, 11379
- transmission, dynamics, 11465
- trapping, 11471, 11609
- T. b. brucei* infection, 11379
- T. congolense* infection, 11248, 11379
- T. vivax* infection, 11248, 11379
- trypanosome infection rates, 11216, 11379, 11609
- wing size, 11465
- Glossina palpalis palpalis*** 11602
 - abundance, Togo, 11218
 - blood meals, 11487, 11489
 - density, 11336
 - Côte d'Ivoire, 11227
 - distribution, 11336
 - age group, 11620
 - mapping, Togo, 11218
 - dorsal plates, female, 11217
 - feeding, 11487, 11489
 - feeds, human, 11227
 - from Nigeria, 11217
 - genetic characterisation, 11352
 - genital armature, 11217
 - habitats, 11489
 - hosts, 11489
 - hybrids, × *G. p. gambiensis*, 11217
- Glossina palpalis palpalis*** (cont.)
 - in Côte d'Ivoire, 11227, 11482, 11487, 11489, 11614, 11620
- in Equatorial Guinea, 11470
- in Ghana, 11358
- in Togo, 11218
- inferior claspers, male, 11217
- larvae, 11351
- lipid synthesis, 11351
- midgut infection, 11614
- morphometrics, 11217
- proteins, genetic analysis, 11463
- puparium, 11346
- survival rate, daily, 11227
- susceptibility to infection, 11379
- teneral rate, female, 11227
- Toll*-like gene, 11603
- trapping, 11227, 11482
- T. brucei* infection, 11614
- T. b. brucei* infection, 11379
- T. congolense* infection, 11379, 11614
- T. vivax* infection, 11379
- trypanosome infection rates, 11379
- Glossina swynnertoni***
 - behaviour, 11220
 - ecology, 11220
 - hybridisation experiments, 11350
 - in Kenya, 11220
 - in Tanzania, 11220
 - trapping, 11220
 - Wolbachia* infection, 11602
- Glossina tachinoides*** 11602
 - abundance, Togo, 11218
 - blood meal, 11609
 - density, 11336
 - distribution, 11336
 - in Burkina Faso, 11609
 - mapping, Togo, 11218
 - habitat, 11609
 - hosts, 11609
 - hydrocarbons, 11349
 - in Burkina Faso, 11200, 11455, 11609
 - in Ethiopia, 11339
 - in Ghana, 11358
 - in Togo, 11201, 11218
 - puparium, 11346
 - susceptibility to infection, 11379
 - trapping, 11609
 - T. b. brucei* infection, 11379
 - T. congolense* infection, 11379
 - T. vivax* infection, 11379
 - trypanosome infection rates, 11379, 11609
- goats**
 - trypanosome infection
 - diagnostic study, 11244
 - T. brucei* infection, 11244
 - T. b. brucei* infection (exp.), 11486

- T. congolense* infection, 11244
T. congolense infection (exp.), 11486
T. vivax infection, 11244
T. vivax infection (exp.), 11486
 anaemia, monitoring, 11509
 serum free fatty acid levels, 11509
trypanosomiasis
 diagnosis, 11390
 distribution, Uganda, 11390
 prevalence, Uganda, 11390
 T. brucei infection, 11390
 T. vivax infection, 11390
West African Dwarf
 mixed *T. brucei*/*Cowdria ruminantium*
 infection (exp.)
 serum biochemical changes, 11634
 T. congolense infection
 effect on health and productivity, 11255
 T. vivax infection
 effect on health and productivity, 11255
 trypanosome infection
 effect on productivity, 11511
 trypanosome prevalence, Gambia, 11255
 trypanosomiasis risk,
 effect of anthelmintic intervention,
 11511
 Gambia, 11255
 trypanotolerance, 11255, 11511
Guinea-Bissau
 G. longipalpis in, 11605
 G. m. submorsitans in, 11605
 G. p. gambiensis in, 11605
 trypanosomiasis in, 11605
 tsetse survey, 11605
guinea pigs
 T. evansi infection, 11409
homidium bromide 11290
 control of animal trypanosomiasis, 11369
 detection in serum, ELISA, 11402, 11403
 metabolism by hepatocytes, 11413
 pharmacokinetic evaluation, 11402, 11403
 treatment in cattle, 11403, 11404
homidium chloride 11667
 control of animal trypanosomiasis, 11369
horses
 T. equiperdum infection
 diagnosis, 11645, 11646, 11647
 in Ethiopia, 11503
 trypanosomiasis
 in Kenya, 11675
 T. congolense infection, 11675
identification
 see also characterisation, detection
 by PCR, 11381, 11609, 11618, 11621
 T. brucei sspp., 11265
 T. evansi, 11265
 ELISA-based, of blood-fed tsetse, 11378
immune response
 in buffalo
 serum oxidative response, 11260
 suppression of parasitaemia, 11260
 in camels
 antibody titre, complement fixing, 11257
 circulating trypanosome antigen levels,
 11257
 γ -globulins, 11507
 haemolytic complement activity, 11257
 hyperprotidemia, 11507
 hypocomplementaemia, 11256
 serum C3 levels, 11256
 in cattle
 antibodies, 11501, 11502, 11632, 11633
 IgG, 11247
 IgM, polyreactive, 11247
 cytokine mRNA profile, 11252, 11259
 erythropoietin receptor gene expression,
 11259
 interleukin gene expression, 11252
 macrophage function, 11635
 TNF- α gene expression, 11252
 transforming growth factor gene expression,
 11252
 in humans
 antibodies
 anti-galactocerebroside, 11627, 11628
 auto-, 11628
 titre, 11495
 IgG, 11627
 IgM, 11627
 in mice
 antibodies, 11523, 11628
 anti-conjugated-NO-cysteine, 11275
 neutralising, 11271
 antibody-induced effector mechanisms,
 11278
 cytokines, 11268
 interleukin 4, 11406
 immunoglobulin isotype switching
 antigen-specific, 11523
 macrophages
 cytokine production, 11660
 nitric oxide production, 11272, 11660
 T-cell responses, 11274
 Th2 lymphokine production, 11655
 TNF- α expression, 11407

- trypanosome lymphocyte-triggering factor, 11271
- tumor necrosis factor α , 11273
- in rabbits
 - antibodies
 - anti-conjugated-NO-cysteine, 11275
 - IgG, 11281
- in rats
 - cytokine production, 11267
 - cytokine profile, 11279
 - interferon- γ , 11650
 - expression, 11518
 - gene expression, 11408
 - interleukin-12 gene expression, 11408
 - microglia activation, 11269
 - suppression of *T. b. brucei* infection, 11653
 - trypanosome lymphocyte triggering factor, 11650
- in sheep
 - antibodies
 - IgG, parasite-specific, 11254
 - IgM, parasite-specific, 11254
 - antibody response, 11249
 - cell population changes, peripheral blood
 - B-cell subsets, 11254
 - CD1⁺ cells, 11254
 - CD4⁺ cells, 11254
 - CD8⁺ cells, 11254
 - CD45R⁺ cells, 11254
 - MHCII⁺ cells, 11254
 - T-cell subsets, 11254
- immunisation**
 - in *T. congolense*-infected mice, 11270
- immunity**
 - acquired, 11494
 - natural, human, 11517
- immunosuppression**
 - effect of rinderpest vaccination in cattle, 11258
 - in animal trypanosomiasis, 11256
 - in *T. brucei*-infected mice, 11655, 11657
 - in *T. b. brucei*-infected rabbits, 11289
 - in trypanosome-infected sheep, 11249
- insect growth regulators**
 - chitin synthesis inhibitors, 11364
 - juvenile hormone mimics, 11364
 - on targets, 11364
- insecticides**
 - application, 11363
 - cattle dip, 11224, 11369
 - cattle treatment, 11359, 11361, 11369, 11610, 11611
 - cyfluthrin, 11479
 - cypermethrin, 11512, 11611, 11612
 - α -cypermethrin, 11479, 11480
 - DDT, 11359, 11477
 - deltamethrin, 11200, 11221, 11224, 11339, 11365, 11370, 11479, 11480
 - dieldrin, 11371
 - dips, 11610
 - endosulfan, 11477
 - on targets/traps/screens, 11200, 11224, 11361, 11364, 11365, 11369, 11472, 11480, 11502, 11613
 - organochlorines, 11477
 - pour-on, 11224, 11361, 11369, 11611, 11612, 11613
 - pyrethroids, 11365, 11369, 11610, 11613
 - Spot-on, 11339, 11370
 - spraying, ground, 11369
- in vitro studies**
 - cultivation of trypanosomes
 - in drugs testing, 11284
 - T. b. gambiense*, 11624
 - T. evansi*, 11284, 11291
 - in drugs testing, 11412
- isometamidium**
 - in sustained release device, 11263
 - intramuscular injection, 11263
 - prophylaxis, in cattle, 11263
 - proprietary formulations
 - chemical equivalence, 11405
 - residues
 - in cattle tissues and milk, 11534
 - treatment
 - in *T. b. brucei*-infected rabbits, 11289
- isometamidium chloride**
 - control of animal trypanosomiasis, 11369
 - resistance to, 11643
 - treatment
 - in trypanosome-infected cattle, 11404, 11514
- juvenile hormone mimics**
 - pyriproxyfen, 11364
- Kenya**
 - Coast Province
 - trypanosomiasis in cattle, 11611
 - G. f. fuscipes* in, 11219
 - G. pallidipes* in, 11213, 11611
 - G. swynnertoni* in, 11220
 - Nguruman
 - G. pallidipes* in, 11372, 11379
 - Shimba Hills, Coast Province
 - G. pallidipes* in, 11379
 - sleeping sickness belt, 11369

trapping studies, 11219, 11220
trypanosomiasis in animals
 constraint to production, 11369
trypanosomiasis in camels, 11264
trypanosomiasis in cattle
 incidence, 11258
trypanosomiasis in horses, 11675
trypanosomiasis in humans, 11369
tsetse control, 11364, 11369, 11372
tsetse resurgence, 11369

land use

impact
 of tsetse control, 11388
 on distribution of human trypanosomiasis,
 11482
in Côte d'Ivoire
 effect on human trypanosomiasis risk,
 11614
in Ethiopia, Ghibe Valley
 effect of trypanosomiasis severity, 11457
in Togo
 GIS, 11593
in Zambia, 11360
models, 11457

livestock

treatment
 pyrethroid pour-on, 11613
trypanosomiasis, 11456
 in Ethiopia, 11391, 11456
 in Tanzania, 11355

Malawi

G. brevipalpis in, 11502
G. m. morsitans in, 11502
G. pallidipes in, 11502
trypanosomiasis in cattle
 distribution, 11502
tsetse control, 11502

Mali

drug trials in cattle, 11263
trapping
 Stomoxys, 11222
 Tabanidae, 11222
trypanosomiasis in cattle
 incidence, 11263

man-fly contact 11614

in Sudan, 11234

megazol

excretion, 11283
metabolism, 11283
pharmacokinetics, 11283
 in vervet monkey, 11665
treatment

of human trypanosomiasis
 primate model, 11665
of *T. b. brucei*-infected mice and rats, 11283
uptake by *T. brucei*, 11526

melarsen oxide

metabolism in mice, 11531
physico-chemical properties, 11532

melarsomine (Cymelarsan)

efficacy in *T. evansi*-infected camels, 11261
resistance

 in *T. congolense*, 11264

 in *T. evansi*, 11264

treatment

 in *T. evansi*-infected camels, 11264, 11369

melarsoprol

pharmacokinetics, 11237, 11500
physico-chemical properties, 11532
susceptibility of trypanosomes, 11237
treatment

 of human trypanosomiasis, 11236, 11382,
 11383, 11384, 11386, 11496, 11589,
 11599, 11630

 failure, 11237, 11499

gambiense, 11498, 11499

 protocols, new, 11498

 refractoriness, 11386

 relapse, 11237

 side effects, 11498

 of *T. b. gambiense*-infected mice, 11536
 dosage rates, 11669

Mel Cy *see* Cymelarsan, melarsomine

mice in laboratory studies 11378

drug metabolism, 11531

T. brucei infection, 11524

 congenital transmission, 11651

 drug effects, 11643, 11644, 11671

 drug resistance studies, 11563

 immune response, 11273, 11274, 11278,
 11523

 immunosuppression, 11655, 11657

 suppression of response to *Trichinella*
 spiralis, 11276

 Th2 lymphokine production, 11655

T. b. brucei infection

 drug effects, 11283

 immune response, 11268, 11271, 11628

 intestinal pathology, 11521

 modelling human trypanosomiasis, 11533

 nitric oxide synthase

 in CNS, 11652

 induction, 11519

 nitrotyrosine in CNS, 11652

T. b. gambiense infection

 diagnosis, 11516

- drug effects, 11669
- drug treatment, 11536
- immune response, 11275, 11406
- T. b. rhodesiense* infection
 - drug effects, 11285
- T. brucei/T. congolense* infection
 - drug effects, 11643
- T. congolense* infection, 11485
 - control, 11649
 - cytokine production, 11660
 - immune response, 11272, 11407, 11660
 - immunisation effects, 11270
 - nitric oxide production, 11660
 - susceptibility, 11649
 - trypanotolerance, genetics, 11401
- T. equiperdum* infection
 - drug effects, 11539
 - platelet cytotoxicity, 11654
- T. evansi* infection
 - susceptibility studies, 11277
- T. vivax* infection
 - drug effects, 11529
- models/modelling**
 - cattle land use, Burkina Faso, 11230
 - economic surplus, 11454
 - effect of human population growth on tsetse, 11451
 - herd, 11454
 - host-vector contact patterns, 11228
 - insecticide applications, 11479
 - land use change, 11457
 - pattern matching
 - for diagnosis of trypanosomiasis, 11387
 - trypanosomiasis in animals, prevalence
 - use of satellite data, 11593
 - trypanosomiasis in humans
 - epidemics, 11542
 - in vervet monkey, 11665
- models/modelling** (cont.)
 - trypanosomiasis in humans (cont.)
 - spread, 11481
 - transmission dynamics, 11483, 11615
 - tsetse populations, 11606, 11607
 - in control studies, 11363
- monitor lizards**
 - host for tsetse, 11489, 11609
- monkeys**
 - T. b. gambiense* infection
 - prevalence, Cameroon, 11621
- monkeys, vervet**
 - T. b. gambiense* infection
 - treatment with megazol, 11665
- Mozambique**
 - fly belt, 11221
- G. m. morsitans* in, 11468
- G. pallidipes* in, 11213
- nagana** 11453
 - in Zululand, 11356
- Namibia**
 - G. m. centralis* in, 11501
 - trypanosomiasis in cattle, 11501
- Nannomonas**
 - infecting tsetse, 11228
- nets, electric** 11212, 11219, 11220
 - in tsetse sampling, 11357
- Nigeria**
 - G. palpalis* in, 11604
 - G. p. palpalis* in, 11217
 - trypanosomiasis in cattle, 11505
 - trypanosomiasis in dogs, 11643, 11644
 - tsetse trapping, 11604
- non tsetse transmitted animal trypanosomiasis (NTTAT)** 11206
- odour attractants/baits/stimuli**
 - acetone, 11220, 11466, 11467, 11473, 11474
 - carbon dioxide, 11219, 11466, 11467
 - methyl phenol, 11356
 - 3-methyl phenol, 11466
 - 4-methyl phenol, 11473, 11474
 - 1-octen-3-ol, 11220, 11356, 11466, 11467, 11473, 11474
 - phenols, 11467
 - propyl phenol, 11356
 - 3-*n*-propyl phenol, 11473
- odour repellents**
 - acetophenone, 11466
 - lactic acid, 11466
 - 2-methoxy-phenol, 11466
 - naphthalene, 11466
- oxen**
 - drug treatment, 11514
 - insecticide-treated
 - in tsetse control studies, 11479
- packed cell volume (PCV)**
 - in camels
 - T. evansi*-infected, 11640
 - in cattle
 - T. congolense*-infected, 11251, 11394, 11512, 11638
 - T. vivax*-infected, 11251, 11508
 - trypanosome-infected, 11200, 11201, 11224, 11392, 11404, 11502, 11598, 11611, 11632
 - in goats
 - T. vivax*-infected, 11509

- in pigs
 - T. brucei*-infected, 11396
- in sheep
 - T. congolense*-infected, 11249, 11255
 - T. vivax*-infected, 11255
- parasitaemia**
 - in buffalo
 - trypanosome-infected, 11260
 - in camels
 - T. evansi*-infected, 11256, 11389
 - in cattle
 - T. congolense*-infected, 11251, 11638
 - T. vivax*-infected, 11251, 11252, 11508
 - trypanotolerant, 11397
 - in goats
 - T. vivax*-infected, 11486, 11509
 - in human trypanosomiasis, 11492
 - in mice
 - T. brucei*-infected, 11278
 - T. b. rhodesiense*-infected, 11491
 - T. congolense*-infected, 11485
 - in pigs
 - T. brucei*-infected, 11396
 - in rats
 - T. b. rhodesiense*-infected, 11491
 - T. congolense*-infected, 11377
 - in sheep
 - T. congolense*-infected, 11249, 11250
 - T. evansi*-infected, 11254, 11393
 - patent
 - in *T. evansi*-infected camels, 11240
- parasites, tsetse**
 - Chrestomutilla glossinae*
 - in control, 11363
- pentamidine**
 - activity *in vitro*, 11412
 - chlorodiazirine analogue
 - activity against *T. brucei*, 11537
 - treatment of human trypanosomiasis, 11589, 11599, 11625
- pigs**
 - hosts for tsetse, 11489, 11609, 11616
 - Côte d'Ivoire, 11375
 - reservoir hosts, 11390
 - T. brucei* infection (exp.)
 - pathogenicity, 11396
 - T. b. gambiense* infection, 11493
 - trypanosomiasis
 - diagnosis, 11390
 - mixed infection, 11390
 - prevalence, Uganda, 11390
 - T. brucei* infection, 11390
 - T. congolense* infection, 11390
- primates**
 - T. congolense* infection, 11621
 - T. simiae* infection, 11621
- prophylaxis**
 - isometamidium, in cattle, 11263
- pyrethroids**
 - cattle treatment, 11610
 - β -cyfluthrin, 11365
 - λ -cyhalothrin, 11365
 - α -cypermethrin, 11365
 - efficacy, 11365
 - ground spraying, 11369
 - on odour-baited targets, 11365
 - pour-on, 11613
- pyriproxyfen**
 - on targets, 11364
- quinapyramine**
 - efficacy in *T. evansi*-infected camels, 11261
 - efficacy in *T. evansi*-infected rats, 11673
- quinapyramine sulphate**
 - resistance
 - in *T. congolense*, 11264
 - in *T. evansi*, 11264
 - treatment
 - in *T. evansi*-infected camels, 11264
- rabbits in laboratory studies**
 - T. brucei* infection
 - immune response, 11281
 - T. b. brucei* infection
 - chemotherapy, 11289
 - pathological effects, 11280
 - T. b. gambiense* infection
 - immune response, 11275
 - T. b. rhodesiense* infection
 - diagnostic testing, 11231
- rats in laboratory studies**
 - as laboratory hosts, 11377
 - T. brucei* infection
 - anaemia, 11661
 - drug effects, 11538
 - histopathology, 11522
 - immune response, 11267, 11408
 - immunohistochemistry, 11269
 - microglial activation, 11520
 - neurodegeneration, 11538
 - proinflammatory cytokine overexpression, 11522
 - T. b. brucei* infection, 11659
 - chemokine production, 11525
 - cytokine profile, 11279
 - drug effects, 11283
 - immune response, 11518, 11650, 11653
 - T. congolense* infection, 11617

- T. evansi* infection
 - drug effects, 11673
- refuges, artificial**
 - catch, 11354, 11357
- remote sensing** 11597
 - applications in tsetse control areas, 11452
 - assessing settlement density, 11233
 - assessing tsetse and trypanosomiasis, 11218
- reservoir hosts**
 - of animal trypanosomiasis
 - pigs, Uganda, 11390
 - of human trypanosomiasis
 - animals, contribution to epidemics, 11542
 - domestic animals, East Africa, 11202
 - pigs, Uganda, 11390
 - of trypanosomiasis in pigs
 - cattle, Nigeria, 11396
- rhinoceros**
 - trypanosome infection, Kenya, 11395
- RNA**
 - cattle, trypanosusceptible, m
 - cytokine profiles, 11252
 - cattle, trypanotolerant, m
 - cytokine profiles, 11252
 - T. brucei*
 - binding, 11576
 - cis*-splicing proteins, 11308
 - editing
 - uridine insertion/deletion, 11694
- RNA (cont.)**
 - T. brucei* (cont.)
 - elongation, differential
 - controlling VSG expression sites, 11721
 - g, 11298
 - poly(U) tail formation, 11571
 - gene, kinetoplast spiced leader, 11688
 - kinetoplastid, editing, 11298
 - m
 - mitochondrial, editing, 11300
 - pre-, *cis*-splicing, 11568
 - translation, 11704
 - turnover, pathways, 11708
 - metabolism, 11568
 - mt, 11707
 - multiple transferrin receptor, 11294
 - NEO*, 11310
 - polymerase, 11555
 - r, 11311
 - 18S, 11292
 - methylation, 11692
 - small subunit, maturation, 11303
 - sn, fibrillar-in-associated box C/D, 11692
 - sno, U3, 11303
 - t, 11318, 11333
 - dicistronic precursor, 11312
 - T. congolense*
 - r, gene promoter, 11423
 - trypanosome
 - Ls-r, 11676
 - ribosomal, genes, 11331
- rodents, wild**
 - T. b. gambiense* infection
 - prevalence, Cameroon, 11621
 - T. congolense* infection, 11621
 - T. simiae* infection, 11621
- ruminants**
 - hosts for tsetse, 11609
- satellite imagery**
 - predicting trypanosomiasis prevalence, 11593
- screening**
 - for trypanosomiasis in cattle
 - in Nigeria, 11505
 - for trypanosomiasis in humans, 11234, 11491, 11622
 - in Angola, 11495
 - in Cameroon, 11493
 - in Equatorial Guinea, 11493, 11494
- screens** 11343, 11360
 - cloth, 11479
 - coloured, 11480
 - cotton, 11480
 - electric, 11348, 11369
 - evaluation, 11480
 - insecticide-impregnated, 11361, 11480, 11613
 - odour-baited, 11348
- Senegal**
 - breeding programmes for N'Dama cattle
 - resistance to trypanosomiasis, 11590
 - G. m. submorsitans* in, 11248
 - G. p. gambiense* in, 11216, 11248, 11465
 - trypanosome prevalence in cattle, 11248
- serum**
 - animal, in diagnostic testing, 11242
 - buffalo, Cape,
 - trypanocidal activity, 11642
 - camel, in diagnostic tests, 11246
 - cattle
 - non-specific IgM antibodies, 11247
 - screening, in trypanosomiasis, 11505
 - human
 - albumin in, 11627
 - anti-galactocerebroside antibodies in, 11627, 11628
 - immunoglobulins in, 11627
 - in diagnostic tests, 11231, 11232
 - in drugs testing, 11500

- trypanosomes in, 11232
- rabbit, in diagnostic tests, 11231
- sheep**
 - crossbred, Djallonké-Sahelian
 - T. congolense* infection (exp.)
 - effect of dietary level, 11249
 - effect on productivity, 11249
 - immune response, 11249
 - pathological effects, 11249
 - resistance, 11249
 - Djallonké
 - T. brucei* infection, 11241
 - T. congolense* infection, 11241
 - effect on health and productivity, 11255
 - T. congolense* infection (exp.)
 - biochemical changes, 11510
 - effect of dietary level, 11249, 11510
 - effect on host metabolism, 11510
 - effect on productivity, 11249
 - immune response, 11249
 - pathological effects, 11249
 - resistance, 11249
 - T. vivax* infection, 11241
 - trypanosome infection
 - effect of anthelmintic intervention, 11511
 - effect on productivity, 11511
 - trypanosome prevalence, Gambia, 11255
 - trypanosomiasis risk
 - effect of anthelmintic intervention, 11511
 - Gambia, 11255
 - trypanotolerance, 11255, 11510, 11511
 - Scottish Blackface
 - T. congolense* infection (exp.)
 - blood biochemical changes, 11250
 - effect of energy intake, 11250
 - pathophysiological changes, 11250
 - T. evansi* infection (exp.)
 - immune response, 11254
 - Yankasa
 - T. evansi* infection (exp.)
 - infectivity, 11393
 - pathogenicity, 11393
 - pathology, 11506
 - South Africa**
 - G. austeni* in, 11472, 11473, 11474, 11608
 - G. brevipalpis* in, 11472, 11473, 11474, 11608
 - tsetse control, 11474
 - tsetse trapping, 11608
 - Zululand
 - G. austeni* in, 11356
 - G. brevipalpis* in, 11356
 - nagana, 11356
 - tsetse density, 11356
 - tsetse trapping studies, 11356
 - Spot-on** *see* deltamethrin
 - spraying** 11364
 - aerial, 11359, 11478, 11610
 - in Botswana, 11371
 - ground, 11610
 - cost, 11359
 - DDT, 11359
 - dieldrin, 11371
 - in Botswana, 11371
 - in Kenya, 11369
 - sterile insect technique (SIT)** 11337, 11349, 11363, 11369, 11476, 11610
 - cost, 11347
 - development, in Ghana, 11358
 - efficacy, 11347
 - evaluation, Unguja Island, Zanzibar, 11361
 - gamma sterilisation, 11374
 - G. austeni* in, 11613
 - in Unguja Island, Zanzibar, 11370, 11613
 - integration, 11362, 11364
 - mass production of flies, 11367
 - quality assessment of flies, 11367
 - Stomoxys**
 - trapping, Mali, 11222
 - Sudan**
 - Bahr El Arab tsetse belt, 11404
 - Tambura County
 - trypanosomiasis in humans
 - gambiense*, 11234
 - prevalence, 11234
 - screening, 11234
 - T. evansi* infection in camels
 - economic impact, 11203
 - prevalence, 11239
 - trypanosomiasis in cattle, 11404
 - suramin** 11662
 - treatment of trypanosomiasis in humans, 11236, 11384, 11589, 11599, 11625
 - surra** *see* trypanosomiasis in camels
 - surveys**
 - cattle density, Togo, 11201
 - entomological
 - in Burkina Faso, 11609
 - in Côte d'Ivoire, 11482, 11614
 - parasitological, in Burkina Faso, 11609
 - trypanosomiasis in animals, Uganda, 11390
 - trypanosomiasis in cattle
 - in Burkina Faso, 11245
 - in Togo, 11201
 - sero-prevalence, Nigeria, 11505
 - trypanosomiasis in humans
 - in Cameroon, 11616

in Sudan, 11234
tsetse, in Guinea-Bissau, 11605
tsetse control
GIS and remote sensing in, 11452

Tabanidae

trapping, Mali, 11222

Tanzania

G. brevipalpis in, 11610
G. longipennis in, 11380
G. m. centralis in, 11610
G. m. morsitans in, 11380, 11610
G. pallidipes in, 11610
G. swynnertoni in, 11220
trypanosomiasis in cattle, 11610
Tanga region
G. brevipalpis in, 11355
G. morsitans in, 11355
G. pallidipes in, 11355
trypanosomiasis in livestock, 11355
tsetse abundance, 11355
tsetse distribution, 11355
tsetse trapping, 11355
tsetse control, 11610

Tanzania (cont.)

tsetse trapping studies, 11220
Zanzibar (Unguja Island)
entomological monitoring, 11373
G. austeni in, 11344, 11345, 11361, 11367,
11370, 11373, 11374, 11475, 11480,
11613
SIT, 11344, 11361, 11367, 11370, 11373,
11374, 11613
tsetse control, 11613
trials, 11480
tsetse density, 11373
tsetse eradication programme, 11344,
11337, 11361, 11388, 11613
tsetse trapping, 11475

targets 11360

attractiveness, 11472
barriers to re-invasion, 11224
black, 11220
chitin synthesis inhibitors on
triflumuron, 11364
catch, 11220, 11357, 11474
colour, 11356, 11472, 11474
cost, 11478
evaluation, 11472, 11474
insect growth regulators on, 11364
insecticide-impregnated, 11200, 11224, 11359,
11364, 11369, 11472, 11502
pyrethroids, 11365
juvenile hormone mimics on

pyriproxyfen, 11364
odour-baited, 11224, 11359, 11364, 11365,
11369, 11371, 11474, 11502, 11595, 11610
size, 11356, 11474
sticky, 11220

Togo

G. f. fusca in, 11218
G. longipalpis in, 11218
G. medicorum in, 11218
G. m. submorsitans in, 11218
G. p. palpalis in, 11218
G. tachinoides in, 11201, 11218
remote sensing studies, 11218
trypanosomiasis in animals
modelling with GIS, 11593
prevalence, 11593
trypanosomiasis in cattle
impact, 11201
prevalence, 11201
survey, 11201
tsetse abundance, 11593
mapping, 11218
tsetse distribution, mapping, 11218

transmission

cyclical
by *G. austeni*, 11376
of trypanosomiasis, 11361
mechanical, 11486
of human trypanosomiasis, Côte d'Ivoire,
11227
of *T. evansi* to camels, 11203
of trypanosomiasis, dynamics, 11368

traps/trapping 11343, 11375

allomones on, 11368
biconical, 11219, 11220, 11222, 11355, 11604
catch, 11219, 11220, 11222, 11354, 11357,
11608
coloured, 11604, 11608
comparison, 11220, 11222
cost, 11372, 11478
efficacy, 11222
efficiency, 11608
epsilon, 11355
evaluation, 11220
F3, 11355
cubical, 11222
H, 11608
in control monitoring, 11471, 11480
in entomological monitoring, 11373
in tsetse sampling, 11604, 11609
kairomones on, 11368
larviposition pheromones on, 11368
NG2G, 11372
Ngu, 11355, 11368

- NITSE, 11604
non-biting flies, 11219
odour attractants, 11219
odour-baited, 11211, 11220, 11354, 11356,
11357, 11369, 11608
pyramidal, 11222
S1, 11220
S2, 11220
S3, 11220
sticky panel, 11355, 11373, 11475, 11480
Vavoua, 11222, 11470, 11482
XT sticky, 11356
- triflumuron**
on targets, 11364
- trypacide salts**
treatment of *T. evansi* in camels, 11369
- Trypan**
efficacy
in *T. evansi*-infected camels, 11261
in trypanosome-infected cattle, 11262
- trypanocides** 11282
anti-parasitic agents, 11528
chemical, 11287
amidine derivatives, 11530
bis(9-amino-6-chloro-2-methoxyacridines),
11666
5-chloro-2-mercaptobenzothiazole, 11672
chloroquine, 11529
dibutyltin derivatives, 11672
9,9-dimethylxanthene tricyclics, 11664
fluoroquinolones, 11288
manumycin A, 11416
metronidazole, 11529
2-mercaptobenzoxazole, 11672
organotin chlorides, 11671
organotin compounds, water-soluble, 11539
squalamine analogues, 11668
terpinen-4-ol, 11670
triquin, 11673
trybizine hydrochloride, 11414
natural
Celaenodendron mexicanum, 11663
Kigelia pinnata root and stem bark, 11412
Melaleuca alternifolia oil, 11670
Melissa officinalis oil, 11670
Moringa stenopetala leaves, roots, 11411
plant extracts, 11287
Thymus vulgaris oil, 11670
- Trypanosoma brucei**
acidocalcisomes, 11444
aconitase, 11580
adenylate cyclase GRESAG4.1, catalytic
domain, 11685
alkyl dihydroxyacetone-phosphate synthase,
11450
antigenic variants, sequential dominance,
11301
antigenic variation, 11328, 11447, 11579
homologous recombination, 11438
role of RAD51, 11438
antigens, GPI-anchored, 11658
basal body, 11551
2,3-bisphosphoglycerate independent
phosphoglycerate mutase, 11690
blasticidin S deaminase, 11687
bloodstream form, 11300, 11445, 11588,
11670, 11680, 11684
hydroxyurea inhibition, 11553
cAMP signalling, 11572
calcium mobilisation, arachidonic acid, 11550
causing nagana, 11453
cell cycle, 11309, 11557
cell division, 11225
chromatin, remodelling, 11683
cloning, 11415, 11449
compartmentation, 11546
control, live, 11304
cyclic AMP signalling, 11712
cysteine protease, inhibition, 11286
cytidine triphosphate, 11554
cytokinesis, 11577
cytoplasm, 11580
cytoskeleton, 11560
differentiation, 11445
differentiation defects, novel selection regime,
11720
diploidy, 11225
DNA binding protein, 11548
DNA, c, 11325
DNA content, 11225
DNA, kinetoplast, 11265
DNA nucleosides, 11565
DNA, r
nucleotide sequences, 11541
probes, 11676
DNA, repetitive sequences
RFLP analysis, 11542
drug effects, 11282, 11285, 11287, 11411,
11537, 11538, 11664, 11666, 11668, 11670,
11671
drug resistance, 11315, 11563, 11570, 11643
determinant, 11689
drug targets, 11681
drug uptake, 11526
ectoprotein phosphatase, acidic, 11680
endocytosis, 11440
receptor-mediated, 11705

- energy metabolism, 11584
- environmental sensing, pathways, 11714
- enzyme, drug target, 11719
- epimastigotes, 11225
- evolution, 11292, 11677
- evolutionary relationships, 11542
- farnesyltransferase inhibition, 11416
- fatty acid remodelling pathway, 11710
- fatty acid synthesis, 11711
- flagellar pocket, 11432, 11695
- flagellum assembly, 11419
- flagellum attachment zone, 11309
- α -galactosyltransferase inhibition, 11562
- genetics
 - chromosomes, 11415, 11541
 - clones, 11541
 - diversity, 11542
 - DNA, PCR analysis, 11415
- Trypanosoma brucei*** (cont.)
 - genetics (cont.)
 - evolutionary, 11677
 - exchange, 11415, 11433, 11542
 - gene/s, 11334, 11579
 - conversion, 11328
 - CYC2* and *CYC3* cyclin, 11698
 - editing, 11298, 11300
 - encoding, 11434
 - expression, 11294, 11421, 11581, 11588, 11725
 - expression sites, 11293, 11294, 11323, 11421, 11589, 11721
 - expression system, 11700
 - glutamate dehydrogenase, 11300
 - histone H2B, 11428
 - marker, 11687
 - novel, 11682
 - phosphoenolpyruvate carboxykinase, 11725
 - procyclic acidic repetitive protein, 11311
 - promoters, 11423
 - RNA, kinetoplastid spliced leader, 11688
 - 60S ribosomal protein L27a (L29), 11297
 - transcription, 11293, 11294, 11310, 11311, 11323, 11332, 11428, 11548, 11555, 11559, 11688
 - VSG, 11293, 11311, 11323, 11328, 11421, 11588, 11721
 - genome, 11310, 11436, 11693
 - genome project, 11420
 - genotype, 11415
 - genotypic composition, 11542
 - inheritance, 11415
 - mapping, 11459
 - markers, minisatellite, 11415
 - ploidy, 11433
 - population, 11542
 - regulatory 3' untranslated region, 11425
 - RNase HI
 - conserved RNA binding motif, 11701
 - divergent spacer subdomain, 11701
 - domain organisation, 11702
 - RNA
 - binding, 11576
 - differential elongation, 11721
 - editing, uridine insertion/deletion, 11694
 - g, poly (U) tail formation, 11571
 - guide, 11298
 - kinetoplastid, editing, 11298
 - Ls-r, 11676
 - m, glyceraldehyde-3-phosphate dehydrogenase, translation, 11704
 - m, mitochondrial, editing, 11300
 - m, pre-, *cis*-splicing, 11568
 - m, translation, 11704
 - m, turnover pathways, 11708
 - mt, 11707
 - metabolism, 11568
 - multiple transferrin receptor, 11294
 - NEO*, 11310
 - polymerase, 11555
 - r, 11311
 - r, 18S, 11292
 - r, methylation, 11692
 - r, small subunit, maturation, 11303
 - sn, fibrillar-in-associated box C/D, 11692
 - sno, U3, 11303
 - t, 11318, 11333
 - t, dicistronic, precursor, 11312
 - spliced leader transcript, 11674
 - telomere, maintenance, length regulation, 11699
 - U insertion, 11298
 - glucose transport, 11296
 - Glu-Pro-rich polypeptides, 11544
 - glycerol kinase, 11703
 - glycerol-3-phosphate dehydrogenase, NAD-dependent, 11569
 - glycolysis, 11295, 11546, 11547
 - glycolytic flux, 11296
 - glycoprotein, major surface
 - post-transcriptional regulation, 11722
 - GPI anchor, 11427
 - synthesis, 11545
 - GPI anchoring, 11329
 - GPI anchors, myristate, 11711
 - GPI biosynthetic pathway, 11556
 - inhibition, 11446

- GPI cleavage/attachment site, 11724
- GPI glycans, 11588
- GPI membrane anchors, biosynthetic pathway, 11691
- GPI myristoylation, 11710
- GPI phospholipase C
 - catalysis, 11442
 - expression, 11441
- GPI signal transduction, 11583
- GPI-specific phospholipase C
 - regulation, 11715
 - tetramerisation, 11678
- H⁺-ATPase, 11585
- HSP60, 11523
- human infectivity, 11542
- 3-hydroxy-3-methyl-glutaryl-coenzyme A reductase, 11697
- identification, 11265
- infecting buffalo, 11260
- infecting cattle, 11200, 11245, 11390, 11391, 11505
 - Zebu, 11392
- infecting dogs, 11390, 11643, 11644
- infecting goats, 11244, 11390
 - West African Dwarf, 11634
- infecting mice, 11273, 11274, 11276, 11278, 11416, 11523, 11524, 11643, 11644, 11651, 11655, 11657
- infecting pigs, 11390, 11396
- infecting rabbits, 11281
- infecting rats, 11267, 11269, 11408, 11520, 11522, 11538, 11661
- infecting sheep
 - Djallonké, 11241
- infecting tsetse, 11225, 11415, 11614, 11619
- invariant surface glycoprotein 70, 11523
- karyokinesis, 11706
- karyotypes, molecular, 11541
- kinetoplast segregation, 11577
- life cycle, 11585, 11683, 11686, 11720
- linear poly-*N*-acetyllactosamine, 11440
- lipoprotein acquisition, 11313
- metacyclic form, 11323, 11559
- microdomains, surface, 11573
- mitochondria, 11318, 11333, 11416, 11555, 11580, 11694, 11708
 - protein import, 11684
- mitochondrial matrix, 11697
- mitochondrial translation, 11319
- mitochondrion development, 11324
- N*-linked glycans, 11440
- nucleic acid precursors, 11554
- nucleoside transporter, 11315
 - P1 type, 11581
- nucleus, 11706
- oligopeptidase B, 11317
- oligosaccharides, *N*-linked, 11588
- ornithine decarboxylase, 11322
 - structure, 11431
- P2 transporter function, 11563
- paraflagellar rod, 11309, 11417, 11418
 - kinetoplastid, 11567
- pathogenicity in pigs, 11396
- pH regulation, intracellular, 11585
- phenotypic variation, 11579
- 6-phosphogluconate dehydrogenase, 11327
- plasma membrane, 11299, 11549
- procyclic form, 11313, 11443, 11445, 11684, 11697, 11705
- procyclin
 - repertoire, 11544
 - transcription promoter, 11548
- proteasome subunits, 11434
 - α 5, 11587
- protein import
 - into mitochondria, 11684
 - into nucleus, 11706
- protein/s, 11318, 11324
 - 1, iron-regulatory, 11580
 - acyl-CoA-binding, 11709
 - alanine-rich, 11573
 - coil, 11551
 - DNA-binding, 11422, 11548
 - flagellar pocket, CRAM, 11334
 - glycosylated, 11552
 - GPI anchored, 11552
 - phospholipid C-cleaved, 11695
 - GPI-anchored surface, phosphorylation, 11299
 - GTP-locked Rab, 11557
 - PA26, proteasome-activating, 11586
 - RBP16, mitochondrial Y-box, 11576
 - ribosomal L24, 11325
 - 60S ribosomal L27a (L29), 11297
 - RNA-binding *cis*-splicing, 11308
 - SR, 11308
 - SR domain-containing, 11561
- protein structure, 11588
- protein targeting domain, 11432
- protein transport, 11419
- PTS-1 receptor, 11449
- pyrophosphatase, vacuolar, 11444
- pyruvate-proton symport, 11585
- ribonucleotide reductase, R2 subunit regulation, 11686
- slender form, long, 11524, 11574
- stable transformation, 11687
- STIB 386, 11415

- strain stability, 11542
- stumpy form, 11720, 11524, 11574
- succinyl CoA synthetase, histidine-phosphorylation, 11306
 - inhibition, 11305
- surface glycoproteins, 11443
- TbRAB31 localisation, 11557
- tetraploidy, 11225
- transferrin receptor, 11582
 - recycling, 11700
- Trypanosoma brucei*** (cont.)
 - transferrin receptor expression
 - iron-dependent regulation, 11426
 - transformation, 11524
 - TREU 927, 11415
 - trypanothione reductase, 11566
 - trypomastigotes, 11619
 - mesocyclic, 11225
 - tubulins, 11723
 - VSG, 11421, 11523, 11588, 11721
 - GPI-anchored, 11549
 - transcription promoter, 11548
- Trypanosoma brucei brucei***
 - adenosine transporters, 11435
 - alternative oxidase, ascofuranone-sensitive, 11558
 - AnTat 1.1E, 11628
 - AnTat 1.9, 11628
 - bloodstream form, 11412, 11435
 - Ca²⁺-dependent cell death pathway activation, 11326
 - characterisation, 11540, 11541
 - drug effects, 11283, 11288, 11289, 11412, 11435, 11663
 - epitopes, 11388
 - glycoprotein, 11437
 - Golgi, 11437
 - GUTat 3.1, 11486
 - infecting cattle, 11370
 - infecting goats, 11486
 - infecting livestock, 11339
 - infecting mice, 11268, 11271, 11283, 11519, 11521, 11533, 11628, 11652
 - infecting rabbits, 11280, 11289
 - infecting rats, 11279, 11283, 11518, 11525, 11650, 11653, 11659
 - infecting tsetse, 11376, 11379, 11486
 - lysosome, 11437
 - membrane, 11628
 - methionine metabolism, 11696
 - methionine transport, 11696
 - nucleobase transporter regulation, 11564
 - nucleoside transporter regulation, 11564
 - proteolipid, 11628
 - ribosomal RNA genes, 11331
 - tGLP-1, 11437
 - thioredoxin, 11716
 - trypomastigotes, 11412
- Trypanosoma brucei gambiense***
 - antigen, in diagnostic tests, 11240
 - bloodstream form, 11232
 - characterisation, 11540, 11541
 - DNA, 11381
 - kinetoplast, 11307
 - drug effects, 11414, 11669
 - drug resistance, 11535
 - drug susceptibility, 11237
 - epitopes, nitrosylated, 11275
 - genetics, 11381
 - glyceraldehyde-3-phosphate dehydrogenase, glycosomal, 11302
 - infecting humans, 11232, 11234, 11235, 11237, 11381, 11383, 11386, 11483, 11490, 11491, 11493, 11494, 11495, 11498, 11499, 11596, 11599, 11621, 11623, 11627, 11630
 - infecting mice, 11275, 11406, 11516, 11536, 11669
 - infecting monkeys, 11621, 11665
 - infecting pigs, 11493
 - infecting rabbits, 11275
 - infecting rodents, 11621
 - infecting ungulates, 11621
 - in vitro* culture, 11624
 - procyclic acidic repetitive protein A- α gene, 11307
 - variable surface antigens, 11232
 - virulence, 11483
- Trypanosoma brucei rhodesiense***
 - bloodstream form, 11412
 - characterisation, 11540, 11541
 - DNA, kinetoplast, 11307
 - drug effects, 11285, 11412, 11414, 11500
 - drug resistance, 11535
 - Etat 1.2/R, 11628
 - Etat 1.2/S, 11628
 - genome, analysis, 11314
 - infecting humans, 11231, 11235, 11236, 11384, 11453, 11478, 11490, 11491, 11497, 11599, 11625
 - infecting mice, 11285
 - infecting rabbits, 11231
 - isoenzymes, 11491
 - membrane, 11628
 - methionine metabolism, 11696
 - methionine transport, 11696
 - procyclic form, 11231
 - procyclic acidic repetitive protein A- α gene,

- 11307
- protein, serum resistance-associated
 - expression, localisation, 11439
- proteolipid, 11628
- STI 704 BABA, 11500

- trypomastigotes, 11412
- Utat 4.1, 11231
- zymodemes, 11491
- Trypanosoma congolense***
 - antigens, 11633
 - bloodstream form, 11257, 11293, 11294, 11295
 - characterisation, 11488, 11541, 11675
 - differentiation from *T. simiae*, 11488
 - rDNA probes, 11676
 - drug effects, 11287
 - drug resistance, 11264, 11512, 11643
 - drug sensitivity, 11264
 - epitopes, 11388
 - foreign protein expression, 11424
 - forest type, 11621, 11679
 - GARP, 11679
 - gene promoter, 11423
 - genetics
 - loci, 11578
 - spliced leader transcript, 11674
 - glucose catabolism, 11575
 - glutamic acid, 11578
 - glyceraldehyde-3-phosphate dehydrogenase,
 - glycosomal, 11302
 - IL 1180, 11377, 11484, 11486, 11617, 11638
 - infecting buffalo, 11260
 - infecting camels, 11264
 - infecting cattle, 11200, 11201, 11258, 11360, 11370, 11390, 11401, 11488, 11501, 11502, 11632, 11633
 - Boran, 11247, 11252, 11259, 11635, 11638
 - N'Dama, 11251, 11252, 11290, 11335, 11394, 11635, 11638
 - Zebu, 11392, 11512
 - infecting dogs, 11643
 - infecting goats, 11244, 11486
 - West African Dwarf, 11255
 - infecting horses, 11675
 - infecting livestock, 11339
 - infecting mice, 11270, 11272, 11401, 11407, 11485, 11643, 11649, 11660
 - infecting pigs, 11390
 - infecting sheep
 - Djallonké, 11241, 11249, 11255, 11510
 - Djallonké-Sahelian, 11249
 - Scottish Blackface, 11250
 - infecting tsetse, 11228, 11248, 11263, 11355, 11376, 11377, 11379, 11484, 11486, 11614, 11617, 11618, 11619
 - Kenya coast, 11618
 - Kilifi clone K60/1, 11485
 - Kilifi strain, 11228, 11679
 - Ls-rRNA, 11676
 - mesocyclics, 11377
 - mesoprocyclic stage, 11617
 - metacyclics, 11377, 11485, 11617
 - metacyclogenesis, 11617
 - minichromosomes, 11675
 - procyclic form, 11321, 11575
 - proline catabolism, 11321
 - protein, alanine-rich, 11578
 - ribosomal RNA genes, 11331
 - riverine-forest strain, 11228, 11245
 - rRNA, gene promoter, 11423
 - savanna strain, 11228, 11245, 11618, 11621, 11675, 11679
 - serine oligopeptidase, trypsin-like, 11316
 - serodemes, 11675
 - trypomastigotes, 11619
 - Tsavo, 11618
 - virulence, 11251, 11485
 - VSG, recombinant, 11320
- Trypanosoma cruzi***
 - drug effects, 11664
 - evolution, 11292
 - genome project, 11420
 - GPI signal transduction, 11583
 - RNA, r, 18S, 11292
- Trypanosoma equiperdum***
 - characterisation, 11540
 - drug effects, 11539, 11672
 - infecting horses, 11503, 11645, 11647
 - infecting livestock, 11339
 - infecting mice, 11539, 11654
 - P2 nucleoside transporter
 - uptake of NO-releasing drugs, 11717, 11718
- Trypanosoma evansi***
 - akinetoplasmic, 11330
 - antigenic analysis, 11430
 - bloodstream form, 11284
 - characterisation, 11540, 11541
 - control, 11206
 - cultivation, 11284, 11291
 - detection by PCR, 11648
 - diagnosis, 11265
 - diagnostic tests, 11206, 11242, 11266
 - DNA, kinetoplast, 11265, 11307
 - rDNA probes, 11676
 - drug effects, 11530, 11673
 - drug resistance, 11264
 - drug sensitivity, 11264, 11284
 - economic impact, 11206, 11229

genome, analysis, 11314

Trypanosoma evansi (cont.)

infecting camels, 11203, 11204, 11238, 11239, 11240, 11243, 11246, 11256, 11257, 11261, 11264, 11369, 11389, 11393, 11504, 11507, 11640

infecting guinea pigs, 11409

infecting livestock, 11339

infecting mice, 11277

infecting rats, 11673

infecting sheep, 11254

Yankasa, 11393, 11506

infectivity in sheep, 11393

isoenzyme characterisation, 11243

isolates, 11206, 11243

Ls-rRNA, 11676

pathogenicity, 11206

in sheep, 11393

procyclic acidic repetitive protein A- α gene, 11307

ribosomal RNA genes, 11331

TREU 2143, 11254

trypomastigotes, 11284, 11530

VSG, 11429

Trypanosoma godfreyi

infecting tsetse, 11228

Trypanosoma rangeli

evolution, 11292

Trypanosoma simiae

differentiation from *T. congolense*, 11488

genetics, spliced leader transcript, 11674

infecting tsetse, 11228, 11379, 11618

ribosomal RNA genes, 11331

Trypanosoma vivax

antigens, 11633

bloodstream form, 11251

drug effects, 11529

epitopes, 11388

genetics, spliced leader transcript, 11674

glyceraldehyde-3-phosphate dehydrogenase, glycosomal, 11302

infecting cattle, 11200, 11201, 11245, 11258, 11370, 11390, 11501, 11505, 11632

N'Dama, 11251

Zebu, 11252, 11392, 11508

infecting goats, 11244, 11390, 11486, 11509

West African Dwarf, 11255

infecting livestock, 11339

infecting mice, 11529

infecting sheep

Djallonké, 11241, 11255

infecting tsetse, 11248, 11355, 11379, 11486, 11618, 11619

ribosomal RNA genes, 11331

stock IL 1392, 11486

virulence, 11251

trypanosome/s

antigenic variation, 11713

biology, 11459

DNA, extraction, 11226

evolutionary relationships, 11542

identification by PCR, 11609

infecting rhinoceros, 11395

infection rate in tsetse, 11609

molecular evolution, 11543

strains, human-infective, 11202

trypanosomiasis, general

epidemiology, 11541

risk

in Burkina Faso, 11609

in Gambia, 11511

trypanosomiasis in animals

clinical symptoms/pathological effects

abortion, 11255

anaemia, 11250, 11259, 11393, 11396, 11509, 11634, 11638, 11649

anorexia, 11396

congestion of organs, 11396

convulsions, 11634

corneal opacity, 11640

depression, 11649

dullness, 11393, 11640

emaciation, 11393, 11396, 11503, 11640

epiphora, 11393

fever, 11634, 11640

growth retardation, 11250

haematological changes, 11393, 11396

haemorrhage, 11396

hyperaemia of skin, 11396

incoordination, 11396, 11503

leucopenia, 11638

loss of appetite, 11393, 11640

loss of condition, 11640

lymphadenitis, 11506

lymphadenopathy, 11506

ocular discharge, 11396

oedema, 11634

offspring mortality, 11255

paddling, 11634

pale mucous membrane, 11393

posterior paralysis, 11634

pyrexia, 11249, 11393

reduced weight gain, 11249, 11255, 11396

rough hair coat, 11393, 11396

splenomegaly, 11506

swelling of external genitalia, 11503

unsteady gait, 11634

- weight loss, 11634
 - control, 11337, 11341, 11358, 11369, 11388
 - diagnosis, 11388, 11390
 - distribution, in Uganda, 11390
 - eradication programme, Botswana, 11595
 - field assessment, 11341
 - in Botswana, 11595
 - in Burkina Faso, 11200
 - in Equatorial Guinea, 11470
 - in Gambia, 11341
 - in Ghana, 11358
 - in Kenya, 11369
 - in Togo, 11593
 - in Zambia, 11360
 - management, 11200
 - monitoring, 11388
 - prevalence
 - in Gambia, 11341
 - in Togo, mapping, 11593
 - in Uganda, 11390
 - reservoir hosts, Uganda, 11390
 - surveillance, 11369
- trypanosomiasis in camels**
- aetiology, 11639
 - clinical aspects, 11640
 - control, 11639
 - diagnosis, 11238, 11239, 11240, 11389, 11639
 - distribution, 11229
 - economic significance, 11229
 - epidemiology, 11229, 11504, 11639
 - haematological aspects, 11640
 - immune response, 11507
 - in Chad, 11504
 - in Kenya, 11264
 - in Sudan, 11239, 11240
 - in Tunisia, 11507
 - in Uganda, 11243
 - incidence, 11229
 - pathology, 11639
 - prevalence, 11229, 11239, 11240, 11389
 - in Chad, 11504
 - in Uganda, 11243
 - surveillance, 11229
 - treatment, 11264, 11639
 - T. congolense* infection, 11264
 - T. evansi* infection, 11229, 11238, 11239, 11240, 11243, 11264, 11389, 11504, 11507, 11640
- trypanosomiasis in cattle**
- chemoprophylaxis, 11404
 - chemotherapy, 11404
 - control, 11610, 11611
 - in Botswana, 11371
 - in Zambia, 11360, 11514
 - diagnosis, 11245, 11390, 11502
 - modelling, 11387
 - distribution, in Uganda, 11390
 - epidemiology, 11201, 11336
 - expression, 11201
 - in Africa, southern, 11359
 - in Burkina Faso, 11245
 - in Gambia, 11335
 - in Kenya, 11611
 - in Namibia, 11501
 - in Nigeria, 11505
 - in Senegal, 11590
 - in Sudan, 11404
 - in Tanzania, 11610
 - in Togo, 11201
 - in Uganda, 11390, 11591, 11632
 - in Zambia, 11360, 11514
 - incidence
 - in Botswana, 11371
 - in Mali, 11263
 - in Zimbabwe, 11224
 - prevalence
 - in Burkina Faso, 11245
 - in Togo, 11201
 - in Uganda, 11390, 11632
 - in Zambia, 11360
 - in Zimbabwe, 11224
 - modelling, 11387
 - prophylaxis, 11263, 11515
 - resistance, 11590
 - risk
 - factors, 11637
 - in Togo, 11201
 - in Zambia, 11360
 - survey, in Togo, 11201
 - T. brucei* infection, 11390, 11505
 - T. congolense* infection, 11390, 11501, 11502
 - T. vivax* infection, 11390, 11501, 11505
- trypanosomiasis in dogs**
- diagnosis, 11390
 - distribution, Uganda, 11390
 - in Nigeria, 11643, 11644
 - prevalence, Uganda, 11390
 - T. brucei* infection, 11390, 11644
- trypanosomiasis in goats**
- diagnosis, 11390
 - distribution, Uganda, 11390
 - prevalence, Uganda, 11390
- trypanosomiasis in goats (cont.)**
- risk, in Gambia, 11255
 - T. brucei* infection, 11390
 - T. vivax* infection, 11390
- trypanosomiasis in horses**
- in Kenya, 11675

- prevalence, in Ethiopia, 11503
T. congolense infection, 11675
T. equiperdum infection, 11503
- trypanosomiasis in humans** 11338
- biology, 11202
 - clinical symptoms/pathological effects
 - adenopathy, 11493
 - circadian disturbances, 11235
 - encephalopathy, 11628, 11630
 - erythematous lesion, 11625
 - fever, 11625
 - headache, 11625
 - hypoglycaemia, 11629
 - increased IFN- γ synthesis, 11236
 - increased nitric oxide production, 11236
 - meningoencephalitis, 11235, 11626
 - myalgia, 11625
 - nausea, 11625
 - palpable spleen, 11625
 - postural hypotension, 11625
 - rigor, 11625
 - sleep-wake disturbances, 11235, 11383
 - tachycardia, 11625
 - vomiting, 11625
 - control, 11233, 11234, 11340, 11343, 11369, 11451, 11458, 11459, 11478, 11494, 11495, 11622
 - diagnosis, 11231, 11232, 11381, 11451, 11459, 11491, 11492, 11493, 11494, 11495, 11497, 11596, 11622, 11625, 11626, 11627
 - distribution, in Côte d'Ivoire, 11482
 - endemicity, 11202
 - epidemics, 11202, 11451, 11458, 11483, 11542
 - epidemiological risk, Côte d'Ivoire, 11233
 - epidemiology, 11340, 11343, 11482, 11487, 11496, 11542, 11614, 11615, 11616
 - eradication programme, Botswana, 11595
 - foci, 11202, 11340, 11382, 11620
 - historic, 11458, 11483
 - in Angola, 11495
 - in Cameroon, 11458, 11493, 11616, 11621
 - in Burkina Faso, 11496
 - in Central African Republic, 11615, 11622
 - in Côte d'Ivoire, 11482, 11483, 11487
 - in Equatorial Guinea, 11494

 - in Uganda, 11491
 - maintenance, 11542
 - genetics, 11202
 - history, East Africa, 11202
 - in Africa
 - central, 11340, 11596
 - East, 11202
 - West, 11340
 - in Angola, 11381, 11451, 11495, 11498, 11630
 - in Botswana, 11371, 11595
 - in Cameroon, 11458, 11493, 11616, 11621
 - in Central African Republic, 11483, 11615, 11622
 - in Congo, 11383, 11451, 11483, 11491, 11627
 - in Côte d'Ivoire, 11227, 11233, 11382, 11482, 11487, 11496, 11614, 11620
 - in Equatorial Guinea, 11381, 11470, 11494
 - in Kenya, 11369
 - in Nigeria, 11623
 - in Sudan, 11234
 - in Uganda, 11236, 11237, 11478, 11491, 11492
 - incidence, Côte d'Ivoire, 11233
 - man-fly contact, 11456, 11478, 11482, 11614
 - modelling, 11615, 11665
 - neuropathology, 11458
 - perpetuation, 11621
 - post-treatment reactive encephalopathy, 11533
 - prevalence, 11483
 - in Cameroon, 11493
 - in Côte d'Ivoire, 11233, 11487, 11620
 - in Sudan, 11234
 - prevention, 11596
 - reservoir hosts, Uganda, 11390
 - reservoirs of infection, 11202
 - animals, 11542
 - wild animals, 11621
 - resurgence, 11621
 - risk
 - in Côte d'Ivoire, 11482, 11614
 - screening, 11622
 - spread, 11621
 - modelling, 11481
 - stage determination, 11382
 - surveillance, 11227, 11233, 11340, 11343, 11369, 11496, 11616
 - transmission, 11227, 11233, 11615, 11622
 - dynamics, modelling, 11483
 - treatment, 11342, 11343, 11451, 11459, 11492, 11497, 11527, 11596, 11631
 - DFMO, 11385, 11386, 11496, 11589, 11599

 - melarsoprol, 11236, 11237, 11382, 11383, 11384, 11386, 11496, 11498, 11499, 11589, 11599, 11630
 - pentamidine, 11589, 11599, 11625
 - suramin, 11236, 11384, 11589, 11599, 11625
 - T. b. gambiense* infection, 11232, 11234, 11235, 11381, 11383, 11386, 11483, 11490, 11491, 11494, 11495, 11498, 11499, 11596, 11599, 11621, 11623, 11624, 11627, 11630
 - relapse after treatment, 11237

T. b. rhodesiense infection, 11231, 11235, 11236, 11384, 11453, 11478, 11490, 11491, 11497, 11599, 11625

trypanosomiasis in livestock

effect of human populations, 11456
in Ethiopia, 11457
in Tanzania, 11355

trypanosomiasis in pigs

diagnosis, 11390
distribution, Uganda, 11390
prevalence, Uganda, 11390
T. brucei infection, 11390
T. congolense infection, 11390

trypanosomiasis in sheep

risk, in Gambia, 11255

trypanosusceptibility

in cattle
Boran, 11252, 11259, 11635, 11638
Gobra zebu
influence on tick infestation, 11594
Zebu, 11199
in mice, 11277

trypanotolerance

genetics, 11252, 11259, 11592
markers, 11513
heritability, 11513
in buffalo, 11260
Cape
serum trypanocidal activity, 11642
in cattle
genetics, 11397, 11398, 11399, 11400, 11401
markers, 11397, 11398, 11399, 11401
N'Dama, 11199, 11251, 11252, 11259
influence on tick resistance, 11594
role of bone marrow, 11635, 11638
socio-economic importance, 11641
selection, 11399
taurine, 11592
trait, 11397, 11398, 11399, 11401

West African Shorthorn
socio-economic importance, 11641

in goats

West African Dwarf, 11255, 11511

in mice

genetics, 11401

in sheep

Djallonké, 11249, 11255, 11510, 11511

Djallonké-Sahelian, 11249

traits, quantification, 11513

Trypanozoon

characterisation of isolates, 11540
genome, 11540

TrypsChemo 11515

tsetse eradication

in Zanzibar, 11345, 11388
sterile insect project, 11344
Unguja Island, 11337, 11361, 11370, 11373, 11374, 11613

Tunisia

trypanosomiasis in camels, 11507

Uganda

Buvuma islands

trypanosomiasis in animals

distribution, 11390

prevalence, 11390

G. f. fuscipes in, 11632

G. pallidipes in, 11460, 11600

Masindi District

human trypanosomiasis, *rhodesiense*, 11491

north-west

trypanosomiasis in humans, 11492

south-east

G. f. fuscipes in, 11478

human trypanosomiasis, *rhodesiense*, 11478

trypanosomiasis control, 11478

tsetse control, 11478

trypanosomiasis in camels

prevalence, 11243

trypanosomiasis in cattle

prevalence, 11632

survey, 11591

trypanosomiasis in humans

gambiense, 11237, 11499

rhodesiense, 11236

tsetse control, 11632

vaccines 11459

variant surface glycoprotein (VSG)

T. brucei, 11523

expression, 11588

variant surface glycoprotein (VSG) (cont.)

T. brucei (cont.)

gene conversion, 11328

gene expression sites, 11559, 11721

control, 11421

transcription, 11293, 11323

gene promoters, 11311

GPI-anchored, 11549

transcription promoter, 11548

T. congolense, 11320

T. evansi, 11429

wild animals

productivity under tsetse infestation
in Burkina Faso, 11455

reservoirs of human trypanosomiasis, 11621

wild ruminants

as hosts for tsetse, 11489

wild ungulates

T. b. gambiense infection

prevalence, Cameroon, 11621

Zanzibar *see* Tanzania

Zambia

G. f. fuscipes in, 11360

G. m. centralis in, 11360

G. m. morsitans in, 11348, 11360, 11468

G. pallidipes in, 11360

trypanosomiasis in cattle, 11514

prevalence, 11360

tsetse control, 11359, 11360

Zimbabwe

barriers to re-invasion, trials, 11224

G. morsitans in, 11224, 11356

G. m. morsitans in, 11221, 11354, 11357,
11468, 11473, 11479

G. pallidipes in, 11213, 11221, 11224, 11348,
11354, 11356, 11357, 11460, 11473, 11479,
11600

trapping studies, 11354, 11357, 11365

tsetse control, 11359, 11364, 11473, 11479

Zambezi Valley

G. m. morsitans in, 11212, 11228

G. pallidipes in, 11210, 11211, 11212,
11228

Zululand *see* South Africa