

TSETSE AND TRYPANOSOMIASIS INFORMATION QUARTERLY

Index

Volume 18

Part 1–4, 1995

Numbers 8706–9262



DFID



Cirad-emvt

Africa

central

trypanosomiasis in humans, 9007

East

T. b. brucei stocks from, 8894

T. congolense stocks from, 8902

trypanosomiasis in humans, 9007

southern

land use, effects of tsetse on, 9124

sub-Saharan

trypanosomiasis

in animals, 8709, 8737, 8984

in cattle, 8991, 8993

in humans, 8991

trypanosomiasis in humans, 8706, 8709

trypanosomiasis in livestock, 8989, 9000

tsetse control, 8991, 9000, 9152

West

land use, effects of tsetse on, 9124

T. congolense strains from, 8902

trypanotolerant cattle in, 8908

antelope, roan

trypanosome infection

prevalence, Côte d'Ivoire, 8880

antibiotics

in tsetse bloodmeal, effects, 8710

antibodies

see also immune response

anti-midgut

in immunised rabbits, 8854

detection, in diagnosis, 8761, 8783, 8867, 8881, 9178, 9181

monoclonal

anti-bovine CD8, mouse, 9060

in diagnostic testing, 8758, 8759, 9177

to isometamidium chloride, 9221

polyclonal

in diagnostic testing, 8759

in human trypanosomiasis, 9045

antigen

see also variant surface glycoprotein

trypanosome

circulating, detection of, 8761, 9180

detection tests in diagnosis, 8849, 8881

expression in *Spodoptera frugiperda* cells, 9119

flagellar pocket, in vaccine, 8896

in diagnosis, 8758, 8759, 8761, 8783, 9099, 9164, 9180

stimulation of immune response *in vitro*, 8779

antigenaemia

in trypanosome-infected cattle, 8881, 9179, 9183

antigenic variation

in trypanosomes, 8709, 8973, 9090

T. brucei, 8830

T. congolense, 8895

antimitotics

treatment of trypanosomiasis, 8877

arsenicals

melaminophenyl, quantitative estimation, 8937

treatment of human trypanosomiasis, 8707, 8877

attractants/attractiveness for tsetse

see also odour attractants/baits/stimulants

chickens, 9021

crocodiles, 9021

lizards, monitor, 9021

oxen, trypanosome-infected, 9020

rabbits, 9021

snakes, 9021

warthogs, 8728

barriers

tsetse, 9008, 9025

targets, 9157

Beauveria bassiana

pathogenicity in tsetse, 8735

Benin

G. tachinoides in, 8733

north

trypanotolerant cattle in, 9061

southeast

trypanotolerant cattle productivity, 8907

tsetse control, trapping, 8733

Berenil *see* diminazene aceturate

BHC

spraying, in Zululand, 9152

biting flies

mechanical transmission of trypanosomes, 8753

T. vivax infection, Nigeria, 9053

vectors of camel trypanosomiasis, Ethiopia, 8764

buffalo

blood, for tsetse diet, 8712, 9129

effect on trypanosome development, 9163

host for tsetse

G. longipennis, Kenya, 9039

G. pallidipes, Kenya, 9039

serum, trypanocides in, 8782

trypanoresistance, 8782

trypanosome infection

prevalence, Côte d'Ivoire, 8880

trypanotolerance, mechanisms, 8782

Burkina Faso

Bobo-Dioulasso

T. congolense stocks from, 9177

trypanosomiasis in animals, 9177

G. tachinoides in, 8855

Tabanidae in

trapping, 8730, 8731

trypanosome transmission, 8730

trypanosomiasis in animals

epidemiological survey, 9178

trypanosusceptibility in small ruminants, 8769

tsetse control, trapping, 8730, 8731, 8855

tsetse distribution, 8997

bushbuck

host for tsetse

G. longipennis, Kenya, 9039

G. pallidipes, Kenya, 9039
T. b. rhodesiense infection
transmission, 9036

camel

T. evansi infection, 8754, 8882
diagnosis, 8882, 8905, 9182
in Egypt, 8883, 8892, 8905
in Ethiopia, 8764
in Kenya, 8744, 8916, 9182, 9200, 9201
in Mauritania, 8756, 8757
in Sudan, 8771
in United Arab Emirates, 8778
pathological effects, 8883, 8892, 8905
treatment, 8916
drug resistance, 8916, 9200, 9201, 9223
T. evansi infection (exp.)
haematological changes, 8778
trypanosomiasis
control, 9201
detection, 8882
diagnosis, 9181
epidemiology, Mauritania, 8756
field survey, Mauritania, 8757
haematological changes, 8892
in United Arab Emirates, 8778
incidence
in Chad, 8754
in Ethiopia, 8764
infection rate, 9181
prevalence, in Kenya, 9181
treatment, 8892

Cameroon

G. m. submorsitans in, 9006
tsetse habitat mapping, 9006

cattle

Baoulé crosses
trypanosome prevalence, Côte d'Ivoire, 9176
blood
in tsetse feeding studies, 9129
in tsetse infection studies, 9034
Boran
T. brucei infection (exp.)
antigenaemia, 8881
diagnosis, 8881
T. b. rhodesiense infection (exp.)
transmission studies, 9036
T. congolense infection (exp.)
effect on blood cell populations, 8768, 9054
immune response, 9060
T. vivax infection (exp.)
effect on pregnancy, 9189
in tsetse susceptibility studies, 9037
trypanosusceptibility, 8768, 9054, 9194
trypanotolerance, 9189
Borgou
productivity in Benin, 8907

- trypanotolerance, 8907, 9061
- drug residues in, 9199
- Galana
 - T. vivax* infection (exp.)
 - effect on pregnancy, 9189
 - trypanosusceptibility, 9189, 9194
- Jersey
 - prophylaxis, 9197
 - trypanosomiasis, 9197
- Keteku
 - mixed infection, 9052
 - T. brucei* sspp. infection, 9052
 - T. congolense* infection, 9052
 - T. vivax* infection, 9052
 - trypanosomiasis
 - prevalence, Nigeria, 9052
 - trypanotolerance, 9052
- Lagunaire
 - diagnostic testing for trypanosomiasis, Togo, 8760
- Muturu
 - mixed infection, 9052
 - T. brucei* sspp. infection, 9052
 - T. congolense* infection, 9052
 - T. vivax* infection, 9052
 - trypanosomiasis
 - prevalence, Nigeria, 9052
 - trypanotolerance, 9052
- N'Dama
 - crosses
 - trypanosome prevalence, Côte d'Ivoire, 9175
 - diagnostic testing for trypanosomiasis, Togo, 8760
 - performance under tsetse challenge, Zaire, 8784
 - production economics, Zaire, 8845
 - T. brucei* sspp. infection, 9052
 - T. congolense* infection, 8763, 9052
 - effect on health and productivity, 8770, 8784
 - T. congolense* infection (exp.)
 - blood cell population changes, 9054
 - effect of diet on response, 9057
 - trypanotolerance studies, 8783
 - T. vivax* infection, 8763
 - effect on health and productivity, 8770, 8784
 - T. vivax* infection (exp.)
 - trypanotolerance studies, 8783
 - trypanosome infection
 - effect on reproductive performance, 8767
 - in Gambia, 8770
 - epidemiological survey, 8767
 - prevalence, 8767
 - in Zaire, 8783, 8784
 - mixed, 8763, 9052
 - treatment, 8784
 - trypanosomiasis
 - in Zaire, 8763
 - incidence, Gambia, 8773
 - prevalence, Nigeria, 9052

trypanosusceptibility
 effect of helminth infection, 8770
trypanotolerance, 8781, 8783, 8784, 8845, 8909, 8910, 9052, 9054
treatment
 dip
 deltamethrin, 9025, 9142, 9151, 9152, 9153
 drug, 8988, 9053, 9062, 9063, 9191, 9199, 9203
 toxicity, 9204
 insecticide, 9157
 λ -cyhalothrin, 9142
 α -cypermethrin, 8861, 9142, 9148
 deltamethrin, 9142, 9151, 9153, 9203
 pyrethroids, 9025, 9142, 9148, 9152, 9156
 pour-on
 λ -cyhalothrin, 9142
 α -cypermethrin, 8861, 9142, 9148
 deltamethrin, 9151
 pyrethroids, 9025, 9142, 9148, 9152, 9156
 sprays
 pyrethroid, 9025, 9142
T. brucei infection, 8753, 9203
T. congolense infection, 8803, 8894, 8896, 9190, 9203, 9216
 diagnosis, 8758
T. congolense infection (exp.)
 drug residues in tissues, 9063
 effect of vaccine, 8896
 immune response, 8887
 treatment, 8896
T. vivax infection, 8754, 8755, 8896, 9190, 9203
 diagnosis, 8758
T. vivax infection (exp.)
 effect of vaccine, 8896
 immune response, 8887
 treatment, 8896
trypanosome infection
 biochemical changes, 9183
 diagnosis, 8759, 8760, 9179
 haematological changes, 9183
 immunological changes, 9183
 prevalence
 in Côte d'Ivoire
 effect on productivity, 9176, 9190
 in Ethiopia, 9148
 rate, Kenya, 9150
trypanosomiasis, 8993
 as constraint to production, 8723, 8737, 8845
 diagnosis, 8754, 8760, 8763, 9177
 distribution, Togo, 9138
 effect on growth rate, 9194
 effect on rinderpest vaccination, 9191
 epidemiology, 8725, 8984, 9008
 survey, Zaire, 8763
 in sub-Saharan Africa, 8991, 8993
 in Tanzania, 8861
 in Togo, 8846
 in Uganda, 9203
 incidence

- in Chad, 8755
- in Gambia, 9002
- in Kenya, 9194
- in Nigeria, 9053
- in Togo, 8760, 9138
- in Zaire, 8753

cattle (cont.)

trypanosomiasis (cont.)

prevalence

- effect of age, 9052
- in Ethiopia, 8737
- in Gambia, 9002, 9128
- in Nigeria, 8754, 9052, 9053, 9175
- in Togo, 9002, 9135, 9138
- in Zaire, 8845
- in Zambia, 9125

prophylaxis, 9062

risk, 8984

- in Ethiopia, 8725, 8737, 8988

susceptibility, 9194

trypanosusceptible, 9194, 9195

- clinicopathological effects of infection, 9183

trypanotolerance, 8782

- in different breeds, 9194
- modelling, 8780
- parameters, 8780, 8781, 8783, 8784

trypanotolerant

- clinicopathological effects of infection, 9183
- genetics, 8849
- immune response, 8906
- in control of trypanosomiasis, 9052
- production economics, Togo, 8846
- trypanoresistance, 8782

Trypanozoon isolates from Uganda, 8808

Trypanozoon prevalence, Uganda, 9146

West African Shorthorn

- trypanotolerance, 8781

Zebu

crosses

- trypanosome prevalence, Côte d'Ivoire, 9176
- diagnostic testing for trypanosomiasis, Togo, 8760
- health and productivity, Ethiopia, 9195
 - effect of tsetse control, 8890
- reproductive performance, 8765, 9059
- resistance, acquired, 8765

treatment

- drug trials, 8762, 9064
- insecticide studies, 9142
- T. brucei* infection, 8762
- T. congolense* infection
 - effect on reproductive performance, 8893
 - prevalence, Ethiopia, 8762
 - treatment, 9064
- T. vivax* infection, 8762
 - effect on reproductive performance, 8893
 - treatment, 9064

- trypanosome infection
 - frequency of parasitaemia, 9058, 9059, 9195
 - genetic variation in PCV, 9058, 9195
 - incidence, Nigeria, 8765, 8893
 - mixed, effect on reproductive performance, 8893
 - treatment, 9058, 9059
- trypanosome prevalence
 - effect on reproductive traits, 9059
 - in Ethiopia, 9193
- trypanosomiasis
 - drug resistance, 9193, 9195
 - effect on productivity, 8777, 8890, 9193, 9195
 - effect on reproduction, 8893, 8904, 9059
 - in Central African Republic, 8723
 - in Ethiopia, 9059, 9193, 9195
 - in Kenya, 9064
 - incidence, in Gambia, 8773
 - prevalence, in Ethiopia, 8777, 8904
 - treatment, drug, 8723, 8777, 8904, 9193, 9195
- trypanosusceptibility studies
 - in Ethiopia, 9195
 - in Kenya, 9194

Central African Republic

- G. f. congolensis* in, 8723
- G. f. fuscipes* in, 8723, 9021
- Nola Bilolo

- trypanosomiasis in humans, 8994
- testse control, trapping, 8723, 9021
- tsetse distribution, 8723

central nervous system (CNS)

- in human trypanosomiasis, 8749, 8867, 9045
- drugs in, 8877
- pathology, 9046, 9047

cerebrospinal fluid (CSF)

- in goats
 - drugs in, 9198
- in human trypanosomiasis
 - IgM levels, 9044
 - protein levels, 9044
 - trypanosomes in, 8868, 9041, 9051, 9166, 9172
 - white blood cell count, 8876, 9051, 9172

Chad

- trypanosomiasis
 - in humans, 8994
 - incidence
 - in camels, 8755
 - in cattle, 8755

challenge

- trypanosome
 - to camels, Kenya, 9181
 - to Zebu cattle, Kenya, 9064
- tsetse
 - to cattle
 - experimental, 9060
 - in Kenya, 9194, 9197
 - in Uganda, 9153
 - N'Dama

- in Gambia, 8773
- in Zaire, 8783, 8784
- Zebu
 - in Ethiopia, 8762, 9193
 - in Gambia, 8773

characterisation

- of *G. p. gambiensis* colonies
 - by C-banding, 8851
 - by isoenzyme studies, 8851
- of trypanosomes
 - by DNA probes, 8879, 8947, 9033, 9196
 - radioactive, 9177
 - by DNA typing, 8950
 - by electrophoresis
 - enzyme, 8950, 9160
 - starch gel, thin layer, 8865
 - by human serum sensitivity tests, 9160
 - by isoenzyme analysis, 8947, 8948, 8949
 - by PCR, 9033, 9177, 9196
 - by restriction fragment length polymorphisms (RFLP), 9160
- of *Trypanozoon* isolates
 - by isoenzyme electrophoresis, 8808

chemotherapy 8787

- for control of trypanosomiasis
 - in animals, 9146
 - in humans, 9007
- in *T. b. brucei*-infected rats, 9220
- in *T. b. rhodesiense*-infected monkeys, 8788
- in *T. congolense*-infected sheep, 9188

chicken

- attractiveness for tsetse, 9021

Congo

- Bouenza region
 - trypanosomiasis in humans, 8847
 - control, 8847
 - historical aspects, 8847
- G. f. fuscipes* in, 8856
- G. tabaniformis* in, 8856
- trypanosomiasis in humans, 8870, 8871, 8872
 - control, 9007
 - historical aspects, 9007

control, trypanosomiasis 8987, 9124, 9127

- community participation, 8737, 8848, 8983, 9029, 9147
- computerised techniques, 8983, 8992, 8994, 8997
- cost, 8736, 8737, 8845, 8846, 9145, 9165
- cost-effectiveness, 8848, 8988, 8998, 9145
- drugs use, 8751, 8781, 8787, 8876, 8988, 8989, 9007, 9062
- geographical information systems in, 8994, 8997, 9000, 9124, 9126
- historical aspects, 8707, 9007
- in Congo, 8847, 9007
- in Côte d'Ivoire, 8742, 8862, 9165
- in Equatorial Guinea, 8745
- in Ethiopia, 9001, 9005
- in Kenya, 9147
- in Senegal, 8708
- in Tanzania, 8861, 9007
- in Togo, 9135, 9145

in Uganda, 9029, 9146
in Zimbabwe, 9151, 9157
integrated, 8787, 9025
land use associations, 8983, 9001, 9124
research, 8983
review, 8983
screening, 9007
socio-economics, 8845, 8846, 8848, 8895
strategies, 8984, 8985, 8994, 9025, 9026, 9128, 9165
training, 8983, 8999, 9128, 9165
trypanotolerant livestock in, 8780, 8781, 8845, 8846, 8849
vaccination, 8781, 8849
vector control, 8708, 8736, 8737, 8745, 8781, 8787, 8848, 8862, 8984, 8989, 8999, 9005, 9007, 9008, 9025, 9029, 9145, 9146, 9147, 9151, 9157

control, tsetse 8709, 8781, 8987, 9123, 9125

biological, 8735
campaigns, 8984, 9003
community participation, 8737, 8848, 9025, 9026, 9029, 9144, 9147, 9155
computerised techniques, 8983, 9130
cost, 8736, 8737, 9026, 9027, 9125, 9144, 9151, 9155, 9156, 9157
cost-effectiveness, 8848, 9151
game elimination, 8992
game management, 9007
genetic modification, 9131
geographical information systems in, 9125
growth regulators, 8736
in Africa, 8991
in Benin, 8733
in Burkina Faso, 8730, 8731, 8855
in Central African Republic, 8723, 9021
in Côte d'Ivoire, 8726, 8736, 8862, 8895, 9143, 9144, 9175, 9190
in Equatorial Guinea, 8745
in Ethiopia, 8725, 8737, 8890, 9001, 9005, 9148, 9155, 9156
in Gambia, 9128
in Kenya, 8727, 9031, 9139, 9147
in Senegal, 8708
in Tanzania, 8861, 8996, 9007
in Togo, 9003

control, tsetse (cont.)

in Uganda, 9007, 9029, 9146, 9153, 9203
in Zambia, 8999, 9125
in Zimbabwe, 8732, 8734, 8992, 9151, 9154, 9157
in Zululand, 9152
insecticide, 8708, 8726, 8781, 9025
 BHC, 9152
 cattle treatment, 8725, 8861, 9025, 9142, 9152, 9157, 9203
 cost, 9142, 9151
 λ -cyhalothrin, 9142
 α -cypermethrin, 8725, 8860, 8861, 9142, 9145, 9148, 9176
 DDT, 8734, 8991, 9152, 9154
 deltamethrin, 8733, 8860, 9028, 9029, 9142, 9145, 9146, 9149, 9151, 9153, 9154, 9155, 9203
 endosulfan, 8732
 impregnated screens, targets and traps, 8708, 8733, 8991, 8995, 9025, 9027, 9029, 9146, 9149, 9155, 9157, 9176, 9190
 organochlorine, 8991
 organophosphate, 8991
 pour-on, 8725, 8860, 8861, 9025, 9142, 9148, 9152, 9155

- pyrethroids, 9025, 9152
 - synthetic, 8991, 9142, 9152, 9155
- spraying, 8734, 9008, 9142
 - aerial, 8732, 9025, 9152
 - ground, 8708, 9025, 9028, 9154
- integrated, 8787, 9025, 9026
- land use associations, 8997, 9001, 9125, 9126
- multi-disciplinary programmes, 9025
- re-invasion, 8992, 8996, 9003, 9025, 9027
- review, 9025, 9026
- screens, 9142
 - electrified, mobile, 9150
 - insecticide-treated, 8708, 8733
- spraying, 8734, 9008, 9142
 - aerial, 8732, 9025, 9152
 - ground, 8708, 9025, 9028, 9154
- sterile insect technique, 9025
- strategy, 9025, 9026, 9125, 9128, 9143, 9144
- sustainability, 9026, 9027
- targets
 - baited, 8737, 9147
 - odour-, 8995, 9149, 9157
 - insecticide-treated, 8733, 8991, 8995, 9025, 9027, 9145, 9149, 9155, 9157
 - cattle, 9151
- training, 8989, 9029, 9128, 9130, 9133
- traps, 8723, 8781, 9008, 9021, 9142, 9152, 9203
 - baited, 9147
 - odour-, 8730, 8731, 8995, 9030, 9150
 - biconical, 8731, 8736, 8855, 9027, 9139, 9150, 9190
 - bipyramidal, 9029
 - Challier-Laveissière, 8855
 - epsilon, 9154
 - F3, 8730, 8731, 8855, 9030
 - Flint, 8855
 - Gouteux, 8855
 - insecticide-treated, 8708, 8733, 8991, 8995, 9025, 9027, 9029, 9146, 9176, 9190
 - Laveissière, 8855
 - Mérot, 8855
 - monoconical, 8731, 8855, 9139, 9143
 - monopyramidal, 8745, 9146
 - NG-2G, 8730, 8731, 9031
 - NGU2B, 9139
 - NGU2G, 9139
 - Noireau, 8855
 - pyramidal, 9139
 - pyroxyfen-treated, 8736, 9150
 - screen-, 8730, 8731, 8855
 - Vavoua, 8855, 9139, 9143
- vegetation clearance, 8996, 9007, 9008
- wild animal depletion, 9008

Côte d'Ivoire

- Bouaflé focus, 8726, 8736
 - G. p. palpalis* in, 8726, 8736
- Comoé Game Reserve
 - trypanosome prevalence in wild animals, 8880
- Daloa
 - G. n. nigrofusca* in, 9033

- G. p. pallicera* in, 9033
- G. p. palpalis* in, 9033
- G. longipalpis* in
 - distribution and abundance, 9141
- G. nigrofusca* in, 9161
- G. p. pallicera* in, 9161
- G. palpalis* in, 9143
- G. p. palpalis* in, 8862, 9161
- G. tachinoides* in, 9143
- T. congolense* stocks from, 8894
- trypanosome infections, identification, 9161
- trypanosome prevalence
 - in cattle, 9176, 9190
 - in sheep, 9176
- trypanosomiasis
 - in humans, 8865, 8871
 - control, 8994, 9165
 - gambiense*, 8742
 - incidence, 8742
 - man-fly contact, 8742, 8862
 - monitoring, 9165
 - prevalence, 8862
 - risk factors, 8742, 8862
 - surveillance, 9165
 - Vavoua focus, 8994
 - monitoring, 9143, 9176, 9190
 - tsetse control, 8726, 8736, 8862, 9144
 - trapping, 8995, 9143, 9176, 9190

crocodile

- attractiveness for tsetse, 9021

culture

see also in vitro studies

- trypanosome, 8709
 - in diagnosis of trypanosomiasis, 9040
 - T. brucei* bloodstream form, 9082
 - T. b. brucei* procyclics, 9104
 - T. congolense* procyclics, 9104
 - T. simiae* procyclics, 9104

λ-cyhalothrin

- pour-on cattle treatment, 9142

α-cypermethrin

- pour-on, 8860, 9146
 - cattle treatment, 8725, 9148
 - efficacy in tsetse control, 8861
- treated targets, 9145
- treated traps, 9176

DDT

- for tsetse control, Africa, 8991
- spraying
 - in Zimbabwe, 9154
 - environmental effects, 8734
 - in Zululand, 9152

deltamethrin

- cattle treatment, 9142, 9151, 9203
 - dip, 9151, 9153
 - pour-on, 8860, 9145, 9151

impregnated screens, traps and targets, 8733, 9029, 9146, 9149, 9155
persistence, 9142
spraying, in Zimbabwe, 9028, 9154

DFMO *see* difluoromethylornithine

diagnosis

comparison of techniques, 8759, 8760, 8761, 8865, 8878, 8880, 8881, 8882, 9166, 9170, 9177, 9182
evaluation of techniques, 8758, 8759, 8761, 8783, 8867, 8879, 8882, 9040, 9164, 9166, 9169, 9170, 9177, 9180, 9182
field, 8759, 8865, 8878, 8880, 9180, 9182
of animal trypanosomiasis, 8753, 8754, 8755, 8756, 8757, 8758, 8759, 8760, 8761, 8763, 8764, 8770, 8783, 8849, 8878, 8879, 8880, 8881, 8882, 8888, 8905, 9053, 9170, 9175, 9177, 9180, 9181, 9182, 9197
of human trypanosomiasis, 8748, 8867, 8876, 9040, 9041, 9044, 9123, 9164, 9165, 9166, 9168, 9169, 9170, 9180
parasitological, 8754, 8756, 8757, 8758, 8760, 8763, 8764, 8770, 8783, 8849, 8867, 8876, 8878, 8880, 8881, 8882, 8905, 9041, 9044, 9053, 9143, 9165, 9166, 9170, 9175, 9177, 9180, 9181, 9182, 9197
serological, 8753, 8756, 8757, 8758, 8759, 8760, 8761, 8783, 8867, 8876, 8880, 8881, 8905, 9040, 9143, 9165, 9166, 9169, 9170, 9175, 9177, 9180, 9181, 9182, 9197

diagnostic markers 8838

diagnostic techniques

antibody detection, 9178
antigen detection, 8783, 8788, 8849, 8881
blood examination, 9179, 9180
blood smear, 8754, 8756, 8757, 8760, 8763, 8764, 8770, 8880, 8882, 8905, 9041, 9044, 9166
buffy coat, 8754, 8783, 8878, 8881, 8896, 9179, 9197, 9202
 phase contrast, 9177
 quantitative, 9040, 9170
card indirect agglutination test, 9169
card latex agglutination antigen test, 9182
CATT, 8761, 8876, 9040, 9170
CSF examination, 9041, 9044, 9166
dipstick colloidal dye immunoassay, 8759
ELISA, 8753, 8761, 8879, 9062, 9197
 ag-, 9183, 9202, 9205
 antibody, 9181
 antigen, 8758, 8879, 8880, 8881, 9164, 9175, 9177, 9178, 9181
enzyme immunoassay, 8783
haematocrit centrifugation, 8759, 8878, 8882, 9166, 9170
 micro, 8881, 9040, 9181, 9182
IFAT, 8773, 9166
indirect immunofluorescence, 8757, 8760, 8761
KIVI, 8880, 9040, 9170
latex agglutination antigen test, 9180
lymph node fluid examination, 8763, 8876
m-AECT, 8882, 9170
mouse inoculation, 9166, 9181, 9182
silicone centrifugation, 8882
Suratex, 9182
thick film, 9170
thin film, 8878, 8880
wet film, 8878, 8882
Woo method, 8760

difluoromethylornithine (DFMO)

combined with melarsoprol, 8998
cost, 8998, 9171, 9173

delivery devices, 9072
development, 9004, 9173
 review, 8751
evaluation in cell culture, 8752
pharmacokinetics, 8798
-sensitive primate model, 9075
side effects, 8798, 8998

difluoromethylornithine (DFMO) (cont.)

treatment
 in *T. b. brucei*-infected rats, 9072
 of trypanosomiasis, 8798
 in animals, 8752
 in humans, 8752, 8867, 8877, 8998, 9171
 combined with melarsoprol, 8998
 combined with suramin, 9173
 gambiense, 9172, 9173
 rhodesiense, 9173

dimercaprol

treatment of human trypanosomiasis, 9044

diminazene

treatment of human trypanosomiasis, *gambiense*, 8876, 9172

diminazene aceturate

efficacy, 8785, 8786
 in *T. b. brucei*-infected rats, 9220
 in *T. congolense*-infected cattle, 8762
pharmacokinetics
 in cattle, 9063
 in goats, 9198
resistance
 in *T. congolense*, 8912, 8913, 9077, 9196
 in *T. evansi*, 9201
 in trypanosome-infected cattle, 9193
susceptibility
 in *T. congolense*, 8912, 9196
treatment
 in cattle, 8777, 9204
 T. congolense-infected, 9063
 in dogs
 T. evansi-infected, 8915
 in donkeys
 T. evansi-infected, 8889
 in goats
 T. congolense-infected, 8766, 8912, 8913, 9196
 trypanosome-infected, 9184, 9202
 in sheep
 T. vivax-infected, 9175
 trypanosome-infected, 9202
 of animals, 9145
 of trypanosomiasis
 in cattle, 8904, 9053, 9059, 9193, 9195, 9203
 in humans, 8877
 in sheep, sub-curative, 8886

DNA

detection systems
 for trypanosome strains, 8912
 PCR, 8912, 9159

- detection tests in diagnosis, 8849
- fingerprinting, 8849
- kinetoplast, 8835, 8977
- probes
 - for trypanosome identification, 8746, 8879, 8947, 9033, 9159, 9179
 - radioactive marking, 8879
- sequence
 - for trypanosome characterisation, 9196
- trypanosome
 - k, maxicircles, 8977
 - T. brucei*, 9118
 - k, minicircles, 9116
 - loss of, *T. evansi*, 9103
 - sequence, complementary, of VSG, 8978
- tsetse
 - hybridisation, 8715, 9013
 - probes, 8715
 - profiles, 8715

dog

- Nigerian mongrel
 - T. brucei* infection (exp.)
 - erythrocyte response, 8776
- T. brucei* infection (exp.)
 - biochemical changes, 8901
 - circulatory disturbances, 8774
 - clinical manifestations, 8774, 8901
- T. b. brucei* infection (exp.)
 - pathological effects, 8894
- T. congolense* infection
 - pathological effects, 8888
- T. congolense* infection (exp.)
 - treatment, 8894
- T. evansi* infection
 - pathological effects, 8891
 - treatment, 8891
- T. evansi* infection (exp.)
 - clinical symptoms, 8903
 - pathological effects, 8921
 - treatment, 8915
- trypanotolerance, 8894
- Trypanozoon* isolates from, Uganda, 8808

domestic animals

- trypanosome infection, 8865, 9160
 - identification, 9170
 - rate, Uganda, 9146
- trypanosomiasis
 - diagnosis, 8761

donkeys

- T. evansi* infection
 - pathology, 8889
 - treatment, 8889

drugs

- combinations, 8877, 8998, 9172, 9173
- concentration
 - in CSF, 9198
 - in lymph, 9198
 - in plasma, 8875, 9174, 9198

- in serum, 9197
- cost, 9064, 9173
- cost-effectiveness, 8998
- delivery systems, 8787, 9072, 9218
- design, 9243, 9250
- detection in cattle serum, 9062, 9197
- development, 9004, 9122
- disposition
 - homidium bromide, 9199
- dose, 8911, 9171, 9174, 9196, 9197
- elimination half-life
 - homidium bromide, 9199
 - pentamidine, 9174
- evaluation, 8787, 9074, 9172
 - DFMO, 8752
- in tsetse bloodmeals, effects, 8711
- injection route, 8911
- new, 8785, 8786, 8801, 8802, 8877, 9122
- pharmacokinetics
 - DFMO, 8798
 - diminazene aceturate, 9198
 - homidium bromide, 9199
 - melarsoprol, 8938
 - pentamidine, 8875, 9174
- requirements in trypanotolerant cattle, 8784
- residues
 - in cattle tissues (exp.), 9063, 9199
 - in meat, Kenya, 8914
- resistance, 8753, 8777, 8787, 8904, 8911, 8988, 8989, 9148, 9195, 9223
 - diminazene aceturate, 8762, 8912, 8913, 9077, 9193, 9196, 9201
 - homidium, 9064
 - isometamidium chloride, 8916, 9064, 9201
 - melarsomine, 8916
 - melarsoprol, 8877
 - Mel Cy, 8944
 - multiple, 8916, 9201
 - pentamidine, 8936
 - quinapyramine prosalt, 8916
 - suramin, 8805, 8939, 9200, 9201
 - Trypacide, 9201
- resistant trypanosomes, 9058, 9059, 9062, 9064
- side effects
 - DFMO, 8798, 8998
 - melarsoprol, 8750, 8998, 9049, 9051
 - pentamidine, 8875
 - suramin, 9050
- targeting, 8838
- targets, 9243
- therapy, regimes, 8988
- toxicity, 8787, 9204
 - melarsoprol, 8750, 8877, 9051
- trypanocidal, 8749, 8781, 8988, 8989
 - antimitotics, 8877
 - arsenicals, 8707, 8877, 8937
 - DFMO, 8752, 8798, 8867, 8877, 8998, 9004, 9072, 9075, 9171, 9172, 9173
- dimercaprol, 9044

diminazene, 8876, 9172
diminazene aceturate, 8762, 8766, 8777, 8785, 8786, 8877, 8886, 8889, 8904, 8912, 8913, 8915, 9053, 9059, 9063, 9077, 9145, 9175, 9184, 9193, 9195, 9196, 9198, 9201, 9202, 9203, 9204, 9220
homidium bromide, 9064, 9199
homidium chloride, 9053
imidazoles, 8877
isometamidium chloride, 8883, 8896, 8916, 9026, 9064, 9184, 9191, 9197, 9201, 9202, 9203, 9204, 9218, 9221
lithium chloride, 9220
melarsamine hydrochloride, 9073
melarsomine, 8916
melarsoprol, 8750, 8867, 8876, 8877, 8938, 8998, 9041, 9044, 9049, 9050, 9051
Mel Cy, 8944
nifurtimox, 8807, 8877, 9172
pentamidine, 8867, 8875, 8877, 8936, 9172, 9174
quinapyramine prosalt, 8891, 8916
spiroarsoranes, 8942, 9219
suramin, 8805, 8867, 8877, 8892, 8939, 8946, 9041, 9044, 9050, 9172, 9173, 9200, 9201
Trypacide, 9201

Duttonella

infecting tsetse, identification, 9159

eflornithine *see* difluoromethylornithine

Egypt

trypanosomiasis in camels, 8883, 8892, 8905

eland

blood, for tsetse diet, 8712, 9129
effect on trypanosome development, 9163
serum, trypanocides in, 8782

elephant

host
for *G. longipennis*, Kenya, 9039
for *G. pallidipes*, Kenya, 9039
trypanosome infection
prevalence, Côte d'Ivoire, 8880

endosulfan

aerial spraying, Zimbabwe
environmental effects, 8732

environment

effects of insecticides on non-target organisms, 8732, 8734
effects of land use changes, 9124
factors in trypanosomiasis control, 8994
impact of tsetse control operations, 8732, 8734, 8848, 8991, 8995, 8999, 9001, 9005

epidemics

of human trypanosomiasis
in Congo, 8847, 9007
in Tanzania, 9007
in Uganda, 8990, 9007, 9160
in Zaire, 8707

epidemiology 8709, 8999, 9003, 9038, 9039

of drug resistance in camels, 9223
of trypanosomiasis, 9124, 9159
in animals, 8741, 8983, 8984, 8994, 9177, 9178
in camels
in Kenya, 8916
in Mauritania, 8756

- in cattle, 8725
 - in Zaire, 8763
 - modelling, 9008
- in humans, 8994, 9168
 - in Equatorial Guinea, 8745

Equatorial Guinea

- G. p. palpalis* in, 8745
- Luba focus, 8745
 - trypanosomiasis in humans, 8994
- trypanosomiasis in humans, prevalence, 8745
- tsetse control, trapping, 8745
- tsetse distribution, 8745

Escherichia coli

- expression in
 - of *T. brucei* fructose-1,6-bisphosphate aldolase, 9232
 - of *T. brucei* glycosomal glyceraldehyde-3-phosphate dehydrogenase, 9239
 - of *T. cruzi* glycosomal glyceraldehyde-3-phosphate dehydrogenase, 9239

Ethiopia

- Ogaden
 - trypanosomiasis in camels, 8764
- southwest
 - Ghibe Valley
 - land use, 9001, 9005
 - trypanosomiasis
 - control, 9001, 9005, 9156
 - risk to cattle, 8988, 9193, 9195
 - tsetse control, 9001, 9005, 9148, 9155, 9156
 - G. fuscipes* in, 8725
 - G. f. fuscipes* in, 9148
 - G. m. submorsitans* in, 8725, 9148
 - G. pallidipes* in, 8725, 9148
 - trypanosomiasis
 - control, 8737
 - in cattle
 - prevalence, 8737, 8762, 8777, 8904
 - risk, 8725, 8737, 8777, 8904, 9058, 9059
 - Zebu, 8777, 8904, 9058, 9059, 9193
 - tsetse challenge to cattle, 8762
 - tsetse control, 8737
 - tsetse population monitoring, 8725, 9149
- western
 - trypanosomiasis
 - in cattle, Zebu, 8890
 - risk, 8890
 - in livestock, 8866
 - tsetse control, 8890

Gambia, The

- G. m. submorsitans* in, 8947
- productivity of N'Dama cattle, 8767, 8770
- surveys, epidemiological
 - of trypanosome-infected N'Dama cattle, 8767
 - tsetse, 9128
- T. godfreyi* n. sp. from, 8947
- trypanosomiasis in cattle
 - incidence, 9002
 - N'Dama, 8773

prevalence, 9002, 9128
Zebu, 8773

gene/s

see also RNA

in trypanosomes

Ca²⁺ ATPase, 8825
dihydrofolate reductase-thymidylate synthase, 9236
inosinate dehydrogenase, 8841
invariant surface glycoprotein, 8982
PARP, 8828
phosphoglycerate kinase-encoding, 9230
RNA

cytoplasmic, 9105, 9106

sn, 9105, 9106

U2, 9237

t, upstream, 9105, 9106

serum resistance-associated, 8959

tubulin

β-, 9244

cluster, 8819

VSG, 8830, 8832, 8964, 9249

in tsetse

anti-parasite, 9011

sex-linked, 9032

genetic/s

of trypanotolerance, 9194, 9195

markers, 8849, 8908

selection, 8849, 8910

trypanosome

backcrossing, 8958

characterisation, 8950

chromosomes, 9227

crosses, 9118

diversity, 8948, 9225

endonuclease, 9113

editing domain-specific, 9110

gene amplification, 8841

gene conversion, 8971

gene expression, 8825, 8832, 8964, 8971, 8981, 9105, 9121, 9229, 9236, 9244, 9260

gene isolation, 9236

gene transcription, 8830, 8964, 8966, 9237

units, 9257

genome

mitochondrial, 9245

nuclear, 8976

genomic organisation, 8982

genotyping, 8916

heterogeneity, 9224

karyotyping, 8916, 8948

kinetoplast DNA maxicircle inheritance, 9118

linkage disequilibrium, 8949

mapping, long-range restriction, 9227

nuclease, heterologous, 9110

polyadenylation, 9085

populations, 8948, 9225

recombination, 8830

RNA

- editing, 8974, 9113
- elongation, 9257
- g, 9254
 - binding proteins, 9111
 - domains, 9111
- ligase, 9110, 9113, 9114
- m, 9085
 - editing, 9114
 - precursor, 9097
- mt
 - editing domains, 9109
 - guide-mRNA chimera formation, 9110, 9113, 9114
- polymerases, 8981
- processing signals, 9097
- sn, U2, transcription, 9237
- spliced leader, analysis, 9240
- spliced leader-associated, 8827
- t
 - gene promoter elements, 9228
 - mitochondrial, 8834, 9241
 - spliced leader cap structure, 9256
 - surface antigen expression, 8829
 - trans*-splicing, 9085
 - Trypanozoon* isolates, 8808
 - variability, 8948
- tsetse, 8851, 8991
 - backcrossing, 8719
 - C-banding, 8851
 - chromosomes, 8719, 8851
 - DNA
 - hybridisation, 8715, 9013
 - probes, 8715
 - profiles, 8715
 - gene expression, 8714, 9011
 - gene frequency, 9032
 - genome, 8715, 9013
 - hybrid sterility, 8719
 - in maturation of trypanosome infections, 8739, 9032
 - mariner* sequences, 9013
 - modifications, 9131
 - to RLO, 9131
- variation in PCV
 - in trypanosome-infected cattle, 9058
- geographical information systems (GIS)** 8993, 9005
 - in land use studies, 9000, 9124
 - in trypanosomiasis control, 8994, 8997, 9126
 - in tsetse control strategies, 8983, 9125
- Glossina***
 - behaviour
 - feeding, 9022
 - flight, 8729
 - host location, 8729, 8991
 - host selection, 8729
 - landing, 8729, 9027
 - olfactory stimuli, 8991
 - orientation, 8729
 - response to colour, 9134

- response to odour, 8729
- resting, 8859
- target-orientated, 9157
- trap-orientated, 8724, 9027, 9140
- visual stimuli, 8991, 9134
- biology, 8781, 9003, 9123, 9130
 - bloodmeals, 9032
 - chemoreceptors, 9132
 - digestive tract, dissection, 8740
 - fat levels, 9022
 - feeding interval, 9022
 - genetics, 8714, 8739, 8991, 9011, 9131
 - hosts, 8992
 - lectin, 8739, 8863
 - mechanoreceptors, 9132
 - midgut bacteria endochitinase activity, 8863
 - midgut extracts, 8854
 - nutritional state, 8729
 - physiological state, 8729
 - physiology, 8991
 - reproduction, 8991
 - RLOs, 8714, 9131
 - salivary gland, dissection, 8740, 8865
 - salivary gland infection, 9179
 - sensilla, 9132
 - sexual dimorphism, 9132
 - survival, 8991
 - symbiotic micro-organisms, 9011
 - taxonomy, 8991, 9130

Glossina (cont.)

- biology (cont.)
 - T. brucei* infection, 8844, 8863, 8865
 - T. congolense* infection, 8803, 8863, 8865, 8896, 9032
 - T. vivax* infection, 8896
 - trypanosome infection, 8740, 9160
 - diagnosis, 8865, 9179
 - identification, 9159
 - maturation, 8991, 9032
 - genetics of, 8739
 - refractoriness, 8863, 9131
 - susceptibility, 8863, 9131
 - Trypanozoon* infection, 9032
 - vector competence, 9130
 - vectorial capacity, 8991
 - viviparity, 9027
- control, 8709, 8781, 8787, 8848, 8859, 8983, 8984, 8987, 8989, 9027, 9123, 9125, 9126, 9130, 9131
 - in Africa, 8991
 - in Benin, 8733
 - in Burkina Faso, 8730, 8731
 - in Central African Republic, 8723, 9021
 - in Côte d'Ivoire, 8726, 8862, 8995, 9143, 9144, 9176, 9190
 - in Equatorial Guinea, 8745
 - in Ethiopia, 8725, 8890, 9001, 9005, 9148, 9155, 9156
 - in Gambia, 9128
 - in Kenya, 8727, 9031, 9139, 9147
 - in Senegal, 8708

- in Tanzania, 8861, 8996
- in Togo, 9003
- in Uganda, 9007, 9029, 9146, 9153, 9203
- in Zambia, 8999, 9125
- in Zimbabwe, 8732, 8734, 8992, 9151, 9154, 9157
- in Zululand, 9152
- trapping, 9027, 9136, 9143, 9203
- ecology, 9130, 9140
 - abundance, 9125
 - in Togo, 9135
 - modelling, 9002
 - density
 - in Central African Republic, 8723
 - distribution, 8983, 8994, 8997, 9000, 9125, 9130
 - in Burkina Faso, 8997
 - in Central African Republic, 8723
 - in Equatorial Guinea, 8745
 - in Kenya, 9137
 - in Mali, 8997
 - in Togo, 9135
 - in Zambia, 8997
 - in Zimbabwe, 8992
 - in Zululand, 9152
 - modelling, 9002
 - habitats
 - in Cameroon, 9006
 - in Tanzania, 8738, 8996
 - populations
 - dispersal, 9008
 - monitoring, 8995, 8996
 - species abundance
 - in Central African Republic, 8723
- rearing, 8710
 - diets, 8710

G. austeni

- behaviour
 - mating, 8721
 - target-orientated, 9134
- chemoreceptors, 8713
- control, 9152
- emergence, 8721
- endosymbionts, 9012
- habitats, 9152
 - in Kenya, 9038
 - in Zululand, 9152
- irradiation effects, 8721
- larviposition, 8721
- lectin, 8852
- mechanoreceptors, 8713
- pupae, 8721
- response to colour, 9134
- sensory organs, 8713
- sterility, 8721
- taxonomy, 9012
- T. simiae* infection, 9038
- wing, 8713

- G. brevipalpis***
clones, 8715
control, 9152
endosymbionts, 9012
genetics
 DNA hybridisation, 9013
 DNA profile, 8715
 genome, 8715, 9013
 hybridisation, 8715
 mariner sequence, 9013
habitats, 9152
in Tanzania, 8861
in Zululand, 9152
lectin, 8743, 8852
midgut infection, 8743
refractoriness, 8743
salivary gland infection, 8743
taxonomy, 9012
T. b. brucei infection rates (exp.), 8743
trypanosome infection, 8861
 maturation, 8743
- G. fusca***
distribution, in Togo, 9003
- G. fusca congolensis***
in Central African Republic, 8723
- G. fuscipes***
in Ethiopia, 8725
in Zaire, 8763
- G. fuscipes fuscipes***
bloodmeals, 9021
chemoreceptors, 8713, 8717
control, 9146, 9148
density fluctuations, Uganda, 9146
host preferences, 9146
in Central African Republic, 8723, 9021
in Congo, 8856
in Ethiopia, 9146
in Kenya, 9139
in Uganda, 8808, 9029, 9146
mechanoreceptors, 8713, 8717
response to odour, 9021
response to traps, 9139
sensory organs, 8713
trapping, 8856, 9021, 9029, 9139, 9146
trypanosome infection rate, 9146
Trypanozoon isolates from, 8808
wing, 8713, 8717
- G. longipalpis***
abundance, in Côte d'Ivoire, 9141
activity cycle, diurnal, 9141
distribution
 in Togo, 9138
 seasonal, in Côte d'Ivoire, 9141
habitats, in Côte d'Ivoire, 9141
- G. longipennis***
agglutinating activity
 D-glucosamine inhibition, 9017

- N*-acetyl-D-glucosamine inhibition, 9017
 - bloodmeals, 9017, 9039
 - control, 9149
 - distribution, in Kenya, 9137
 - habitats, 8727, 9039
 - hosts, in Kenya, 9039
 - in Kenya, 8727, 9039
 - lectin, 9017
 - lectin-trypsin complex, 9017
 - populations
 - dispersal, 8727
 - monitoring, Kenya, 8727
 - movement, 8727
 - trapping, 8727, 9039, 9137, 9149

G. medicorum

- distribution, in Togo, 9138

G. morsitans

- acetyl-CoA carboxylase activity, 9014
- agglutination activity, 9009
 - D-glucosamine inhibition, 9009
- behaviour, trap-orientated, 8858, 9027
- bloodmeals, 9009
- control, 8999, 9027
- distribution
 - in Kenya, 9002
 - in Tanzania, 9002
- eclosion muscle death, 8850, 9015
- endosymbionts, bacterial, 8714
- haemolymph, 8714
- in Tanzania, 8861, 9002
- in Zambia, 8999
- in Zimbabwe, 8857
- landing response, 9027
- larva, 9014
- lectin, 9009
- protease activity, 9009
- pupa, 9014
- sensory structures, 9132
- trapping, 8857, 8858, 9027
- trypanosome infection, 8861
- trypsin activity, 9009

G. morsitans centralis

- bloodmeal
 - digestion, inhibition, 8854
 - experimental, 9034, 9129, 9163
 - infectivity, 8881
- feeding, 9129
- genetics, 8719
 - DNA, 8715
 - hybridisation, 9013
 - genome, 9013
 - mariner* sequence, 9013
- hybrid sterility, 8719
- hybridised with *G. m. submorsitans*, 8719
- interlarval period, 9129
- lectin, 8743
 - N*-acetyl-glucosamine inhibition, 9034

- midgut infection, 8743
- puparial weight, 9129
- salivary gland infection, 8743
- T. brucei* infection (exp.)
 - effect of host blood on, 9163
 - infection rates, 9163
 - transmission to cattle, 8881
- T. b. brucei* infection (exp.)
 - infection rates, 8743
- T. congolense* infection (exp.)
 - effect of host blood on, 9034, 9163
 - infection rates, 9034, 9163
- T. vivax* infection (exp.)
 - transmission, 9037
- trypanosome infection
 - maturation, 8743
- G. morsitans morsitans***
 - antennal cells, 9018, 9019
 - behaviour, target-orientated, 9024, 9134
 - bloodmeals, 9034, 9163
 - chemoreceptors, 8713
 - control, 9154
 - digestive tract anatomy, 8741
- G. morsitans morsitans*** (cont.)
 - endosymbionts, 9012
 - molecular analysis, 9010
 - feeding responses, 8728
 - flight, 8729
 - genetics
 - DNA hybridisation, 9013
 - gene frequency, 9032
 - gene, sex-linked, 9032
 - genome, 9013
 - mariner* sequence, 9013
 - haemagglutination activity, 8720
 - haemolymph, 8720
 - host location, 8729
 - host selection, 8729
 - in Zimbabwe, 8728, 8853, 9019, 9154
 - knockdown, 9154
 - landing, 8728, 8729, 9024
 - larval interval, 8853
 - lectin, 8720
 - N*-acetyl-glucosamine inhibition, 9034
 - mechanoreceptors, 8713
 - midgut epithelium, 8741
 - midgut infection, 9160
 - nutritional state, 8729
 - orientation, 8729
 - pathogenic effects
 - of *Beauveria bassiana*, 8735
 - of *Metarhizium anisopliae*, 8735
 - physiological state, 8729
 - predation, 9154
 - pregnancy, 8853
 - protease levels, 9034
 - reproductive rates, 8853

- response to colour, 9134
- response to odour, 8729, 9018, 9019, 9024
- RLOs, 9131
- salivary gland infection, 9160
- sensory organs, 8713
- sex pheromone, 8718
 - synthesis, 9016
- spraying, 9154
- taxonomy, 9012
- trapping, 9149, 9154
- T. brucei* infection (exp.)
 - effect of host blood on, 9163
 - infection rates, 9163
- T. b. brucei* infection
 - transmission studies, 9160
- T. b. rhodesiense* infection
 - maturation, 9032
 - transmission studies, 9036, 9160
- T. congolense* infection, 8741
 - experimental
 - effect of host blood on, 9034, 9163
 - infection rates, 9034, 9163
 - maturation, 9032
- trypanosome transmission, 9160
- Trypanozoon* infection
 - maturation, 9032
- visual responses, 8728
- wing, 8713
- G. morsitans submorsitans*** 8723
 - chemoreceptors, 8713
 - control, 9148
 - distribution, in Togo, 9138
 - genetics, 8719
 - DNA hybridisation, 9013
 - genome, 9013
 - mariner* sequence, 9013
 - habitat, 8725, 9006
 - hosts, in Gambia, 8947
 - hybrid sterility, 8719
 - hybridised with *G. m. centralis*, 8719
 - in Cameroon, 9006
 - in Ethiopia, 8725, 9148
 - in Gambia, 8947
 - mechanoreceptors, 8713
 - midgut infection, 8947
 - population monitoring, Ethiopia, 8725
 - proboscis infection, 8947
 - sensory organs, 8713
 - T. godfreyi* n. sp. infection, 8947
 - vectorial capacity, 8725
 - wing, 8713
- G. nigrofusca***
 - in Côte d'Ivoire, 9161
 - trypanosome infections, 9161
- G. nigrofusca nigrofusca***
 - in Côte d'Ivoire, 9033
 - trypanosome infection

- multiple, 9033
- G. pallicera pallicera***
 - in Côte d'Ivoire, 9033, 9161
 - trypanosome infection, 9161
 - multiple, 9033
- G. pallidipes***
 - age, 8746
 - behaviour
 - flight, 8729
 - foraging, 9023
 - host location, 8729
 - host-orientated, 8860
 - host selection, 8729
 - probing, 9023
 - target-orientated, 9024, 9134
 - bloodmeals, 8712, 9023, 9037, 9039
 - evacuation of, 9023
 - control, 8999, 9148, 9151, 9152, 9153, 9154
 - diet, laboratory, 8712
 - distribution, in Kenya, 9137
 - endosymbionts, bacterial, 8714
 - fat content, mean, 9020
 - feeding response, 8728
 - feeding success, 8860, 9020
 - genetics
 - DNA hybridisation, 9013
 - genome, 9013
 - mariner* sequence, 9013
 - habitat, 8725, 8727, 9039
 - haematin content, mean, 9020
 - haemolymph, 8714
 - hosts, in Kenya, 9039
 - hypopharynx, 9037
 - in Ethiopia, 8725, 9148
 - in Kenya, 8727, 8860, 9020, 9037, 9038, 9039, 9137, 9150
 - in Tanzania, 8861
 - in Uganda, 9153
 - in Zambia, 8746, 8999
 - in Zimbabwe, 8728, 8853, 8857, 9151, 9154
 - knockdown, 9151, 9154
 - labrum, 9037
 - landing, 8728, 8729, 9024
 - larval interval, 8853
 - larviposition, 8727
 - lectin, 8852
 - mortality, laboratory, 8712
 - Nannomonas* infection, 8746
 - nutritional state, 8729
 - orientation, 8729
 - ovarian age, 8746, 9150
 - physiological state, 8729
 - populations
 - age structure, 8746
 - allopatric, Kenya, 9037, 9038
 - dispersal, 8727
 - monitoring
 - in Ethiopia, 8725

- in Kenya, 8727
- movement, 8727
- suppression, in Kenya, 9150
- predation, 9154
- pregnancy, 8853
- pteridine fluorescence, 9150
- puparial weight, 8712
- reproductive performance, 8712
- reproductive rates, 8853
- RLOs, 9131
- response to colour, 9134
- response to odour, 8729, 9023, 9024
- spraying, 9154
- trappability, 9023
- trapping, 8727, 8857, 8860, 9023, 9027, 9039, 9137, 9150, 9154
- T. brucei* infection, 8746
- T. congolense* infection, 8746
 - experimental
 - effect on peritrophic membrane, 9158
- T. simiae* infection, 8746, 9038
 - experimental
 - susceptibility, 9038
- T. vivax* infection, 8746
 - experimental
 - susceptibility, 9037
- trypanosome infection, 8861
 - natural, 8746
 - prevalence, 8746
 - rate, 9150
 - susceptibility, 9037, 9038
- visual response, 8728
- wing fray, 8746, 9150

G. palpalis

- abundance
 - in Nigeria, 9002
 - in Togo, 9003
- antennae, CO₂ receptors, 8716
- control, 9027, 9143
- distribution, in Togo, 9003
- in Côte d'Ivoire, 9143
- insecticide effects, 9142
- knockdown, 9142
- landing, 9027
- lectin, 8852
- response to odour, 8716
- sensory structures, 9132
- trapping, 9027

G. palpalis gambiensis

- characterisation
 - C-banding, 8851
 - isoenzyme, 8851
- chemoreceptors, 8713
- control, 8708
- distribution, in Togo, 9138
- genetics, 8851
 - chromosomes, 8851
 - DNA, 8715

- DNA hybridisation, 9013
 - genome, 9013
 - mariner* sequence, 9013
- haemagglutination activity, 8720
- haemolymph, 8720
- in Senegal, 8708
- in Togo, 9138
- lectin, 8720
- mechanoreceptors, 8713
- sensory organs, 8713
- trypanosome infection
 - susceptibility, 8851
- wing, 8713
- G. palpalis palpalis***
 - behaviour, target-orientated, 9134
 - bloodmeals, 8726
 - effects of antibiotics in, 8710
 - effects of benzyl benzoate in, 8711
 - control, 8736, 8745
 - distribution
 - in Equatorial Guinea, 8745
- G. palpalis palpalis* (cont.)**
 - distribution (cont.)
 - in Togo, 9138
 - endosymbionts, 9012
 - fecundity, 8710, 8711
 - feeding response, 8711
 - genetics
 - DNA, 8715
 - DNA hybridisation, 9013
 - genome, 9013
 - mariner* element, 9013
 - growth regulation, 8736
 - habitats, 8726
 - hosts, 8726
 - in Côte d'Ivoire, 8726, 8736, 8862, 9033, 9161
 - in Equatorial Guinea, 8745
 - mouthparts, 8722
 - population density, Côte d'Ivoire, 8862
 - productivity, 8710, 8711
 - puparia production, 8711
 - reproductive cycle, 8710
 - reproductive system, 8710
 - response to colour, 9134
 - resting sites, 8726
 - RLOs, 9131
 - survival rate
 - daily, 8862
 - laboratory, 8710, 8711
 - taxonomy, 9012
 - trapping, 8736, 8745
 - T. brucei* infection, 8948
 - trypanosome infection, 9161
 - multiple, 9033
 - transmission, 8865
- G. tabaniformis***
 - in Congo, 8856

in Zaire, 8763
trapping, 8856

G. tachinoides

abundance, in Togo, 9003
age, 8858
behaviour, trap-orientated, 8858
bloodmeals
 effects of antibiotics in, 8710
chemoreceptors, 8713
control, 8733, 9143
cuticle, 8718
distribution, in Togo, 9003, 9138
eclosion, 8718
emergence, 8718
endosymbionts, 9012
fecundity, 8710
haemagglutination activity, 8720
haemolymph, 8720
in Benin, 8733
in Burkina Faso, 8855
in Côte d'Ivoire, 9143
in Nigeria, 8754
landing, 8858
lectin, 8720, 8852
lipid content, 8858
mechanoreceptors, 8713
nutritional status, 8858
productivity, 8710
pupae, 8718
reproductive cycle, 8710
reproductive system, 8710
response to odour, 8858
sensory organs, 8713
sex pheromones, 8718
sexual dimorphism, 8718
survival rate, laboratory, 8710
taxonomy, 9012
trapping, 8733, 8855, 9143
T. congolense infection, 8754
T. vivax infection, 8754
trypanosome infection, 8858
 rate, Nigeria, 8754
wing, 8713

goat

blood
 for tsetse diet, 8712, 9129
 in tsetse infection studies, 9034, 9163
 T. b. brucei trypanosomes in, 8743
CSF, drug concentration in, 9198
Djallonké
 T. congolense infection (exp.)
 pathogenic effects, 8769
 T. vivax infection (exp.)
 pathogenic effects, 8769
lymph, drug concentration in, 9198
pharmacokinetics of diminazene aceturate, 9198
plasma, drug concentration in, 9198

Red Sokoto

- T. brucei* infection (exp.)
 - effect on plasma biochemistry, 8772
- T. congolense* infection
 - effect of haemoglobin type, 9185
- T. congolense* infection (exp.)
 - effect on transaminase levels, 8766
 - treatment, 8766

Sahelian Fulani

- T. congolense* infection (exp.)
 - pathogenic effects, 8769
- T. vivax* infection (exp.)
 - pathogenic effects, 8769
- T. brucei* infection
 - diagnosis, 8878
- T. b. rhodesiense* infection (exp.)
 - transmission studies, 9036
- T. congolense* infection
 - diagnosis, 8878
 - treatment, 8786
- T. congolense* infection (exp.)
 - diagnosis, 8758
 - drug resistance studies, 9196
 - treatment, 8912, 8913, 9196
 - relapse, 8912, 8913, 9196
- T. evansi* infection
 - experimental, 8756
 - in Kenya, 8744
- T. simiae* infection (exp.)
 - in tsetse susceptibility studies, 9038
- T. vivax* infection, 9053
 - diagnosis, 8878
- T. vivax* infection (exp.)
 - diagnosis, 8758
 - in tsetse susceptibility studies, 9037

trypanosome infection

- effect on fertility, 9184
- infection rate, Nigeria, 8878
- treatment, 9184

trypanosomiasis

- effect on production, 9202
- prevalence
 - in Nigeria, 8878, 9175
 - in Uganda, 9202
- prophylaxis, 9202
- treatment, 9202

West African Dwarf

- T. congolense* infection (exp.)
 - effect of haemoglobin type, 9185
 - effect on transaminase levels, 8766
 - pathogenic effects, 8902
 - treatment, 8766
 - trypanotolerance, 8902

growth regulators

- pyriproxyfen, 8736

guinea pigs

- T. b. brucei* infection

trypanolytic serum factor, 8922
T. evansi infection
pathological effects, 8921

hartebeest

trypanosome infection
prevalence, Côte d'Ivoire, 8880

high density lipoprotein (HDL)

human, 9042, 9071
cytotoxicity, 9246
effect on trypanosomes, 8789
trypanocidal effect, 9211
trypanolytic factor, 8933

homidium bromide

labelled, disposition in cattle, 9199
resistance in *T. congolense*, 9064
treatment of cattle trypanosomiasis, 9064

homidium chloride

treatment of cattle trypanosomiasis, 9053

horses

lymphocytes
effect on *T. evansi* *in vitro*, 8779

host-parasite relationships 8709

in animal trypanosomiasis, 8985
in human trypanosomiasis, 8868

hosts

laboratory, 8710, 8711, 8712

hybrids, tsetse

genetic analysis, 8719
sterility, 8719

identification

see also characterisation

of trypanosomes
by DNA probes, 8746, 8947, 9033, 9159, 9161, 9179
by isoenzyme analysis, 8947, 9170
by PCR, 9033, 9159, 9161, 9170, 9179
by starch-gel electrophoresis, 8865
of tsetse
computer-aided, 9130, 9133

imidazoles

in treatment of trypanosomiasis, 8877

immune response

IL-1 α expression, 8794
in camels
antibody titre, 9181
in cattle
antibody production, 8773
anti-trypanosome, 8881
IgG, 8906, 9183
IgG1, 8753
IgG2, 8753
CD8 T cells in, 9060
tumour necrosis factor- α expression, 8887
in horses
interleukin 2 formation, 8779
interleukin 2 receptor formation, 8779

- in humans, 9046
 - antibodies, 8867
 - IgM, 9044, 9045
 - polyclonal, synthesis, anti-conjugated tryptophan-like epitope, 9044
 - to interferon- γ , 8869
 - astrocytes in, 9042
 - B cells, 9047
 - B lymphocyte proliferation, 9045
 - eosinophils, 9042
 - interferon- γ production, 8749, 8869
 - lymphocytes, 9042
 - macrophages, 8749, 9042, 9047
 - T cells, 9047
 - CD8+, 8749
 - trypanolysis, 9042
 - tumour necrosis factor production, 8749

immune response (cont.)

- in mice
 - antigen specific Th cell subset, 8924
 - mTNF, role, 8927
 - suppressor macrophages, 9068
- in rabbits
 - anaemia, 9210
- in rats, 8932
 - anaemia, 9209
 - antibodies, 9209
 - to interferon- γ , 8869
 - effects on erythron values, 8793
- in sheep
 - antibodies, 8895
 - chancre, 8895
 - tumour necrosis factor- α receptor activity, 9192
- in tsetse
 - agglutination, 9009, 9017
 - haemagglutination activity, 8720, 8852
 - macrophages in, 8794
 - T lymphocyte proliferation, 8796
 - tumour necrosis factor- α expression, 8794

immunisation

- of rats
 - against *T. evansi*, 8793
 - with γ -irradiated *T. evansi*, 8931
 - with killed *T. evansi*, 8932

immunity

- in humans
 - following trypanosomiasis, 9168
- passive
 - in *T. evansi*-infected mice, 8792

immunocompetence

- in mice, 8805

immunology

- in trypanotolerance, 8782

immunoprophylaxis

- in rats, 8932

immunoprotection

- heterologous, in cattle, 8896

immunosuppression

- in cattle, 8753
- in horses, 8779
- in human trypanosomiasis, 8749, 9042
- in mice, 8805

insecticides 8781, 9008

- BHC, 9152
- cattle treatment, 9157
- λ -cyhalothrin, 9142
- α -cypermethrin, 8725, 8860, 8861, 9142, 9145, 9148, 9176
- DDT, 8734, 8991, 9152, 9154
- deltamethrin, 8733, 8860, 9028, 9029, 9142, 9145, 9146, 9149, 9151, 9153, 9154, 9155, 9203
- dips, 9025, 9151, 9152, 9153
- endosulfan, 8732
- impregnated screens, 8733
- impregnated targets, 8733, 8991, 8995, 9025, 9027, 9134, 9145, 9149, 9155
- impregnated traps, 8733, 8991, 8995, 9025, 9027, 9146, 9157, 9176, 9190
- organochlorine, 8991
- organophosphate, 8991
- pour-on, 8725, 8860, 8861, 9025, 9142, 9145, 9148, 9151, 9152, 9156
- pyrethroids, 8991, 9025, 9142, 9148, 9152, 9156
- spraying, 8734, 9025, 9142
 - aerial, 8732, 9025, 9152
 - ground, 9025, 9028, 9154

invariant surface glycoprotein

- T. brucei*
 - gene family, 8982
 - genomic organisation, 8982

in vitro studies

- for drugs testing
 - in *T. brucei*, 8802
 - in *T. congolense*, 8803
 - in *T. evansi*, 8939, 9223
- in diagnosis
 - of tsetse trypanosome infections, 8865, 9040
- with trpanosomes
 - T. brucei*
 - bloodstream form, 9082
 - transformation, 8963

irradiation

- γ , of tsetse
 - in control monitoring, 8721

isometamidium chloride

- prophylaxis
 - in cattle, 9204
 - in goats, 9202
 - in rabbits, 9218
 - in sheep, 9202
- resistance
 - in *T. evansi*, 9201
 - in *T. vivax*, 9064
- treatment
 - in trypanosome-infected goats, 9184
 - of trypanosomiasis
 - in camels, 8883
 - resistance, 8916
 - in cattle, 8896, 9064, 9191, 9203

detection in serum, 9062, 9197

Kenya

blood-sucking flies

trapping studies, 9136

Busia District

trypanosomiasis

in animals, 9147

in humans, focus of, 9147

Coastal Province

G. austeni in, 9038

G. pallidipes in, 9037, 9038

G. f. fuscipes in, 9139

G. longipennis in, 9137

G. morsitans in, 9002

G. pallidipes in, 8860, 9020, 9137, 9150

Machakos District

G. pallidipes in, 9150

tsetse control, 9150

Nguruman

G. longipennis in, 8727, 9039

G. pallidipes in, 8727, 9037, 9038, 9039

T. congolense populations from, 8803

trypanosomiasis in Zebu cattle, 9064

tsetse distribution, 8727

tsetse trapping, 8727, 9031, 9039

trypanosome infections

in camels, 8744, 8916

in goats, 8744

trypanosomiasis

in camels, 9200, 9201, 9223

prevalence, 9181

in cattle, 8896, 9194, 9197

in dogs, 8888

tsetse control field studies, 8860

tsetse distribution survey, 9137

tsetse trapping, 9137, 9139, 9150

land use

effect of trypanosomiasis control, 8889, 8997, 9001

modelling, 9124

effect of tsetse control, 8983, 8989, 8995, 9001, 9005, 9125, 9126

mapping, Cameroon, 9006

land use planning

effect of trypanosomiasis control, 8997, 8999

in tsetse-freed areas, 8848, 8983, 8984, 8992, 8996, 9000

lectin

in tsetse midgut, 8739, 8852

interaction with trypanosomes, 8739, 8743

role in refractoriness/susceptibility, 8863

leech

T. b. brucei infection, 8864

lions

trypanosome infection, Tanzania, 8738

lithium chloride

chemotherapeutic efficacy

in *T. b. brucei*-infected rats, 9220

livestock

- development programmes, 8997
- trypanosomiasis
 - constraint to production, 8781, 8845, 8984
 - effect on distribution in Africa, 8989
 - effect on health, 8989
 - effect on production, 8985, 8989
 - in Africa, 8781, 8845, 8989, 8997
 - sub-Saharan, 8709, 8984
 - in Ethiopia, 8866
 - in Senegal, 8708
 - in tsetse belt, 8985
 - in Zaire, 8845
 - pathology, 8985
 - prevalence, 9127
 - treatment, 8878

Mali

- tsetse distribution studies, 8997

man

- trypanosome stocks from, Uganda, 9160
- Trypanozoon* isolates from, Uganda, 8808

man-fly contact

- in Busoga, Uganda, 8990, 9162
- in Côte d'Ivoire foci, 8742, 8862

mark-release-recapture

- in tsetse population monitoring, 8727
- in tsetse reproduction studies, 8853

Mauritania

- trypanosomiasis in camels, 8756
 - infection rate, 8757

Mel Cy (melarsenoxide cysteamine)

- resistance in *T. b. brucei*, 8944

melarsomine

- treatment of *T. evansi*-infected camels
 - resistance, 8916

melarsoprol

- cost-effectiveness, 8998
- pharmacokinetics in monkeys, 8938
- resistance, in trypanosomes, 8877
- side effects, 8998, 9049, 9051
 - Guillain-Barré-like syndrome, 8750
 - reactive encephalopathy, 9051
- toxicity, 8877, 9051
- treatment of human trypanosomiasis, 8750, 8876, 8877, 8998, 9041, 9044, 9050, 9172
 - combined with DFMO, 8998
 - efficacy, 9051
 - relapse, 9049
 - side effects, 9051
 - toxicity, 9051

Metarhizium anisopliae

- pathogenicity in *G. m. morsitans*, 8735

mice in laboratory studies 8776, 8795

- immunocompetence, 8805
- immunosuppression, 8805
- modelling trypanotolerance, 8780, 8782
- resistant strains, 8780

susceptible strains, 8780

T. brucei infection

bone marrow nitric oxide production, 9067

development of anaemia, 9067

mice in laboratory studies (cont.)

T. brucei infection (cont.)

drugs testing, 8943

erythrocyte peroxidation *in vitro*, 8790

glomerulopathy, 8934

immune response, 9068

nitric oxide production, 9068

ornithine decarboxylase inhibition, 9096

transmitted by Stomoxyinae, 9035

vaccine, 9207

T. b. brucei infection

drug effects, 8797, 8940, 8941, 8942, 9074, 9076, 9219

immune response, 8927

neuropathogenesis, 9208

trypanotolerance, 8780

T. b. rhodesiense infection

drug effects, 8935, 9074

immune response, 8924

resistance, 8924, 9213

transmission studies, 9036

T. congolense infection

drug effects, 8940

drug resistance studies, 9077

transmission by Stomoxyinae, 9035

T. evansi infection, 8917

diagnosis, 8882

drugs testing, 8943

immunoprophylaxis, 8923

infectivity, 8756

passive immunity, 8792

pathological effects, 8921

suramin resistance, 8805

transmission by Stomoxyinae, 9035

T. vivax infection

transmission by Stomoxyinae, 9035

models/modelling 8997

epidemiologic, 9008

herd, in socio-economic studies, 8845, 8846

in drugs testing, 8877

mathematical, 8993

murine, in trypanosomiasis control, 9060

trypanosomiasis

abundance, 9002

control, 9060

control and land use, 9124

distribution, 9002

human, in rats, 8868

trypanotolerance, 8780

tsetse

abundance, 9002

biology, 9003

dispersal, 8727, 9008

distribution, 9002

monitor lizard

attractiveness for tsetse, 9021

monkey, vervet

melarsoprol pharmacokinetics, 8938

T. b. rhodesiense infection

diagnosis, 8788

treatment, 8788, 9205

nagana

aetiology, historical, 8844

impact on livestock production, 8985

in cattle

in sub-Saharan Africa, 8991

in Uganda

treatment, 9203

in Zululand

vectors, 9152

Nannomonas

infecting tsetse, 8746

identification, 9159, 9161

nets, electric

for tsetse sampling, 8860

efficiency, 8724

in tsetse behaviour studies, 8728, 8858, 9020

nifurtimox

treatment

in *T. b. rhodesiense*-infected rats, 8807

of human trypanosomiasis, 8877, 9172

Nigeria

Anambra State

trypanosome incidence in cattle, 8765

Borno State

biting flies in, 9053

trypanosomiasis in animals

survey, 9053

G. palpalis in, 9002

Gongola State

G. tachinoides in, 8754

trypanosomiasis in cattle

prevalence, 8754

northern

trypanosome infections in Zebu cattle, 8893

trypanosomiasis

in cattle

prevalence, 9052

in goats

prevalence, 8878

survey, 8878

in sheep

prevalence, 8878

survey, 8878

northwest

trypanotolerant Borgou cattle in, 9061

southwest

trypanosomiasis in ruminants

prevalence, 9175

non-target organisms

in Zimbabwe

effect of DDT on birds' eggs, 8734

effect of deltamethrin on lizards, 9028

effect of endosulfan on birds, 8732

Tabanidae in tsetse traps, 9030

normalised difference vegetation indices (NDVI)

in tsetse distribution studies, 9135

Novidium *see* homidium chloride

odour attractants/baits/stimuli 9152

acetone, 8727, 8729, 9023, 9027, 9030, 9136

attractiveness for Tabanidae, 8730, 8731

carbon dioxide, 8716, 8729, 9027

p-cresol, 8716

dung, 9136

cattle, 9021

lactic acid, 9136

live animals, caged, 9021

metacresol, 8731

metacresol/octenol mixture, 8730, 8731

octenol, 8716, 8727, 8729, 8730, 8731, 8858, 9018, 9030, 9136

ox, 9157

phenols, 8858, 9030

4-methyl, 8729, 9027, 9030

3-*n*-propyl, 8729, 9027, 9030

sebum

cattle, 9021

ox, 9024

urine, 9027

cattle, 9021, 9023

cow, 8727, 8858, 9136

organochlorines 8991**organophosphates** 8991**ostrich**

host for tsetse, Kenya, 9039

ox

attractiveness for tsetse, 9157

in deltamethrin pour-on evaluation, 9151

in tsetse feeding studies, 9020

effect of pour-ons, 8860

T. congolense infection, 9020

T. vivax infection, 9020

packed cell volume (PCV)

in camels

T. evansi-infected, 8892

in cattle, 8754

genetic variation, 9058

T. congolense-infected, 8762, 8768, 8770, 8784, 8887, 9054, 9057

T. vivax-infected, 8770, 8773, 8784, 8887, 9037

trypanosome-infected, 8777, 8904, 9052, 9059, 9176, 9183, 9195

in dogs

T. brucei-infected, 8774, 8901

in donkeys

T. evansi-infected, 8889

in goats

- T. brucei*-infected, 8772
- T. congolense*-infected, 8902, 9185
- trypanosome-infected, 9202
- in mice
 - T. b. brucei*-infected, 8780
- in oxen
 - trypanosome-infected, 9020
- in sheep
 - T. congolense*-infected, 8902, 9186
 - trypanosome-infected, 9176, 9202
- regulation in trypanotolerant cattle, 8781

parasitaemia

- control
 - in N'Dama cattle, 8783, 9054
 - in trypanoresistant buffalo, 8782
- in camels
 - T. evansi*-infected, 8778, 8882
- in cattle, 8985
 - frequency, 9058, 9059, 9195
 - T. congolense*-infected, 8762, 8768, 8783, 8784, 8896, 9054, 9057, 9063
 - T. vivax*-infected, 8783, 8784, 8896, 9037
 - trypanosome-infected, 8760, 8777, 8904, 9193, 9195
- in dogs
 - T. brucei*-infected, 8774, 8776, 8901
- in goats
 - T. congolense*-infected, 8902, 8913, 9196
 - trypanosome-infected, 9184
- in humans, 8867
 - T. b. gambiense*-infected, 9040, 9170
- in mice
 - T. b. brucei*-infected, 8780
- in oxen
 - trypanosome-infected, 9020
- in sheep
 - T. congolense*-infected, 8897, 8902, 9186, 9187, 9188, 9192
 - T. vivax*-infected, 9175

pentamidine

- resistance in *T. b. brucei*, 8936
- treatment of human trypanosomiasis, 8867, 8875, 8877, 9172
 - combined with suramin, 9172
 - pharmacokinetics, 9174
 - side effects, 8875

pigs

- T. brucei* infection, 8865
- T. simiae* infection (exp.)
 - in tsetse susceptibility studies, 9038
- Trypanozoon* isolates, from Uganda, 8808
- Trypanozoon* prevalence rate, Uganda, 9146

population/s

- distribution
 - G. longipennis*, Kenya, 8727
 - G. pallidipes*, Kenya, 8727
- monitoring
 - G. fuscipes*, Ethiopia, 8725
 - G. m. submorsitans*, Ethiopia, 8725
 - G. pallidipes*, Ethiopia, 8725

prednisolone

treatment in human trypanosomiasis, 9041, 9051

prophylaxis 8781, 8787

immuno-, in *T. evansi*-infected mice, 8923

in goats, 9202

in sheep, 9202

in *T. congolense*-infected rabbits, 9218

of trypanosomiasis

in animals, 8911

in camels, 9182

in cattle, 9062, 9197

comparison of drugs, 9064

drug toxicity, 9204

pyrethroids

for tsetse control, 8991, 9142, 9148, 9156

cattle dips, 9025, 9152

pour-ons, 9025, 9142, 9148, 9152, 9156

sprays, 9142

synthetic, 8991, 9142, 9148, 9152, 9156

pyriproxyfen

cost, 8736

treated traps, 8736, 9150

quinapyramine prosalt

treatment

of *T. evansi*-infected camels

resistance, 8916

of *T. evansi*-infected dogs, 8891

rabbits

as laboratory hosts, 8710, 8711, 8712, 8743, 8854

attractiveness for tsetse, 9021

blood, in tsetse infection studies, 9034

T. brucei infection

drug effects, 9217

T. b. brucei infection

effect on plasma iron concentration, 9212

effect on plasma zinc concentration, 9212

T. congolense infection

anaemia response, 9210

drug effects, 9217, 9218

T. evansi infection

cardiac electrical activity, 8919

drug effects, 9217

pathological effects, 8921

serum sodium and potassium, 8919

rats

immunisation studies, 8793, 8931, 8932

model of human trypanosomiasis, 8868

T. brucei infection

drug effects, 9217

effects on biological clock function, 8791

haematological changes, 9206

serum biochemical changes, 9206

serum kininogen-like moiety, 8925

vaccines, 9207

T. b. brucei infection

- anaemia, 9209
- antibody response, 9209
- blood-brain barrier damage, 8929
- drug effects, 8806, 9072, 9214, 9220
- effect on body temperature, 9066
- effect on locomotor activity, 9066
- effect on sleep pattern, 8920, 9066
- immune response, 8869
- interaction with dorsal root ganglia neurons, 9065

T. b. rhodesiense infection

- drug effects, 8807

T. congolense infection, 9158

- drug effects, 9214, 9217
- glutathione reductase, 9069
- serum kininogen-like moiety, 8925

T. evansi infection, 8917

- drug effects, 9217

rearing

- G. pallidipes*, 8712

- G. p. palpalis*, 8710, 8711

- G. tachinoides*, 8710

remote sensing 8994, 9005

- in tsetse control strategies, 8983
- in tsetse distribution surveys, 9003
- in tsetse habitat mapping, 9006

rhinoceros

- blood, in tsetse infection studies, 9034

rickettsia-like organisms (RLOs)

- DNA, plasmid, 9131
- genetic modification, 9131

RNA

T. brucei

- cytoplasmic, gene expression, 9106
- editing intermediates, 9113
- elongation in transcription units, 9257
- g-m chimeras, 9113, 9114
- g, secondary structure of molecules, 9254
- helicase activity, 8824
- ligase, 9110, 9113, 9114
- m, editing, 9114
- m, precursor, 9097
- m, 3' (-terminal region, 9229
- m, VSG, polyadenylation site, 9085
- mt, editing domains, 9109
- mt, guide-m chimera-forming activity, 9110
- polymerases, 8981
- processing signals, hierarchies, 9097
- sn, gene expression, 9105
- sn, U2, gene transcription, 9237
- sn, U3, common core structure, 8960
- spliced leader, 9240
- spliced leader-associated, 8827
- t, genes, 9105
 - internal promoter elements, 9228
- t, mitochondrial, 9241
 - nuclear-encoded, 8834

T. b. brucei

g, binding proteins, specific, 9111

g, domains, 9111

T. congolense

editing, developmental regulation, 8974

trypanosome

cytoplasmic, genes, 9106

sn, genes, 9106

t, genes, 9106

ruminants

T. brucei infection, 9175

T. congolense infection, 9175

T. vivax infection, 9175

trypanosomiasis, prevalence, Nigeria, 9175

S-31183 *see* pyriproxyfen

Samorin *see* isometamidium chloride

screening

for trypanosomiasis

in goats, 9202

in humans, 9007, 9166

in sheep, 9202

parasitological, in cattle, 8760

screens

electrified

mobile, catch, 9150

netting, efficiency, 8724

insecticide-impregnated, 8708

deltamethrin, 8733

Laveissière, efficiency, 8733

Senegal

G. p. gambiensis in, 8708

trypanosomiasis in livestock, 8708

tsetse eradication, 8708

serum

animal

antibodies in, 8761

buffalo

trypanocides in, 8782

camel

in diagnostic testing, 8757

T. evansi-infected, ketones in, 8771

cattle

chemoprophylactic drug detection in, 9062, 9197

in diagnostic testing, 8753, 8758, 8760, 9197

eland

trypanocides in, 8782

goat

in diagnostic testing, 8756, 8758

guinea pig

trypanolytic factor in, 8922

human

acidic GPI-hydrolysing phospholipase in, 8930

anti-interferon- γ antibodies in, 8869

HDL in, 9211

HDL-independent trypanocidal action, 9071

in diagnostic testing, 9169

in trypanosome characterisation, 9160

- lysis of *T. b. brucei*, 8965
- lysis of *T. b. gambiense*, 8826
- polyclonal antibodies in, 9045
- sensitivity, in *T. b. rhodesiense*, 9036
- trypanocidal factor, mechanism, 9211
- trypanolytic activity, 9251

rat

- anti-interferon- γ antibodies in, 8869

sheep

- in diagnostic testing, 8756, 8758

sheep

Djallonké

- T. congolense* infection (exp.)
 - pathogenic effects, 8769, 8902
 - trypanotolerance, 8902

- T. vivax* infection (exp.)
 - pathogenic effects, 8769

- trypanosome prevalence, Côte d'Ivoire, 9176

Djallonké \exists Sahel

- trypanosome prevalence, Côte d'Ivoire, 9176

Sahelian Fulani

- T. congolense* infection (exp.)
 - pathogenic effects, 8769

- T. vivax* infection (exp.)
 - pathogenic effects, 8769

Scottish Blackface

- T. congolense* infection (exp.)
 - blood biochemical changes, 9187, 9188
 - effect on adrenocortical function, 8897, 8899
 - effect on pituitary function, 8897, 8899
 - effect on red cell volume, 9186
 - effect on response to GnRH, 8898
 - effect on secretion of LH, 8898
 - effect on secretion of testosterone, 8898
 - pathology, 8897

sheep (cont.)

Scottish Blackface (cont.)

- T. congolense* infection (exp.) (cont.)
 - pathophysiology, 9186
 - effect of dietary protein, 9188
 - effect of energy intake, 9187

- T. brucei* infection
 - diagnosis, 8878

- T. b. brucei* infection
 - iridium serum kinetics, 9076

- T. congolense* infection
 - diagnosis, 8878
 - immune response, 8895
 - kinetics of development, 8895

- T. congolense* infection (exp.)
 - diagnosis, 8758
 - immune response
 - effect of energy intake, 9192

- T. evansi* infection (exp.), 8756

- T. vivax* infection, 9053
 - diagnosis, 8878, 9175
 - treatment, 9175

- T. vivax* infection (exp.)
 - diagnosis, 8758
 - effects on reproduction, 9056
- trypanosome infection rate, Nigeria, 8878
- trypanosome prevalence
 - in Côte d'Ivoire
 - effect on productivity, 9176
- trypanosomiasis
 - effect on production, 9202
 - prevalence
 - in Nigeria, 8878, 9175
 - in Uganda, 9202
 - prophylaxis, 9202
 - treatment, 9202
- West African Dwarf
 - T. brucei* infection (exp.)
 - effect on plasma biochemistry, 8900
 - effect on serum biochemistry, 8900
 - haematological changes, 8775
 - T. congolense* infection
 - effect of haemoglobin type, 9185
 - T. vivax* infection (exp.)
 - effect during pregnancy
 - on feed intake, 8884
 - on liveweight, 8884
 - on nitrogen retention, 8884
 - effect on reproduction, 8886
 - effects post-partem
 - on feed intake, 8885
 - on liveweight, 8885
 - on milk yield and composition, 8885
 - treatment, 8886

Yankasa

- T. congolense* infection
 - effect of haemoglobin type, 9185

small ruminants

- trypanosomiasis, field survey, 8878

snake

- attractiveness for tsetse, 9021

spiroarsoranes

- trypanocidal properties, 8942
- effect of ligands, 9219

Spot-on *see* deltamethrin

spraying 9008

- aerial, 9025
 - BHC, 9152
 - DDT, 9152
 - endosulfan, 8732
 - environmental implications, 8732
 - in Zimbabwe, 8732
 - in Zululand, 9152
- DDT, 8734
 - environmental implications, 8734
 - in Zimbabwe, 8734, 9154
 - in Zululand, 9152
- deltamethrin
 - environmental effects, 9028

- in Zimbabwe, 9154
- droplet deposition studies, 8859
- ground
 - deltamethrin, 9154
 - in Zimbabwe, 9028, 9154
- sterile insect technique (SIT)** 9025
- Stomoxiinae**
 - mechanical transmission of trypanosomes, 9035
 - trapping studies, Kenya, 9136
- Stomoxys**
 - sensory structures, 9132
- Stomoxys calcitrans**
 - transmission of *T. evansi*, 8744
- Stomoxys spp.**
 - control, Ethiopia, 9148
 - trapping studies, Kenya, 9136
- Sudan**
 - T. evansi* infection in camels, 8771
 - trypanosomiasis in humans, *gambiense*, 9004
- suramin**
 - biological activity, 8946
 - resistance
 - in *T. evansi*, 8939, 9200, 9201
 - in *T. evansi*-infected mice, 8805
 - sensitivity in *T. evansi*, 9200
 - treatment of trypanosomiasis
 - in humans, 8867, 8877, 9041, 9044
 - gambiense*, 9172
 - combined with pentamidine, 9172
 - rhodesiense*, 9050
 - combined with DFMO, 9173
 - in *T. evansi*-infected camels, 8892, 9200
- surra**
 - diagnosis, 9182
- surveys**
 - entomological
 - in Congo, 8856
 - in Equatorial Guinea, 8745
 - in Zaire, 8763
 - epidemiological
 - in Burkina Faso, 8758, 9178
 - in Côte d'Ivoire, 8742
 - in Gambia, 8767
 - in Zaire, 8763
 - of trypanosomiasis
 - in animals, Nigeria, 9053
 - in camels, Mauritania, 8757
 - in cattle
 - in Togo, 8760, 9135, 9138
 - in Zaire, 8763
 - in humans, 8742
 - in Côte d'Ivoire, 8742
 - in Equatorial Guinea, 8745
 - in Zaire, 8876, 9167, 9168
 - in livestock, Chad, 8755
 - in Togo, 9003
 - in Zambia, 9125

of tsetse, 9127, 9139
distribution
 in Kenya, 9137
 in Togo, 9138
in Gambia, 9128
in Togo, 9003, 9135
in Zambia, 9125
sero-parasitological
 in Equatorial Guinea, 8745
 in Togo, 8760

Tabanidae

attractiveness of tsetse traps, 8730, 8731, 9030
control, Ethiopia, 9148
in Burkina Faso, 8730, 8731
in mechanical transmission of trypanosomes, 8730
in Zimbabwe, 9030
response to tsetse odour attractants, 8730, 8731, 9030
trapping, 8730, 8731, 9030
T. evansi transmission, 8730
T. vivax transmission, 8730

***Tabanus* sp.**

vector of cattle trypanosomiasis, Zaire, 8763

Tanzania

G. brevipalpis in, 8861
G. morsitans in, 8861, 9002
G. pallidipes in, 8861
Serengeti National Park
 trypanosome infection in lions, 8738

trypanosomiasis
 in cattle, 8861
 in humans, control, 9007

targets

baited, 8737, 9024, 9147
barriers to reinvasion, 9157
catch, 9024
cloth, 9024, 9145, 9149
coloured, 9134, 9145
design, 9134
efficiency, 8724, 8733, 9027, 9157
electrified, 9024
insecticide-impregnated, 8991, 8995, 9025, 9027, 9134, 9145, 9157
 α -cypermethrin, 9145
 deltamethrin, 8733, 9149, 9155
live, insecticide-treated cattle, 9151
netting, 9149
odour-baited, 8995, 9149, 9157

Togo

G. fusca in, 9003
G. longipalpis in, 9138
G. medicorum in, 9138
G. m. submorsitans in, 9138
G. palpalis in, 9003
G. p. gambiensis in, 9138
G. p. palpalis in, 9138

G. tachinoides in, 9003, 9138
T. congolense stocks from, 8894
trypanosome infection in cattle, 8894
trypanosomiasis
 control, 9135, 9145
 in animals, 9145
 in cattle, 8760, 9003
 prevalence, 9002, 9135
 survey, 9138
trypanotolerant cattle production, 8846
tsetse
 abundance, 9135
 control, 9003, 9145
 distribution, 9003, 9135, 9138
 survey, 9003, 9135, 9138

transmission

 index, in tsetse, 9160
 mechanical, 8865
 of *T. evansi* by Tabanidae, 8730
 of *T. vivax* by Tabanidae, 8730
 of trypanosomes by biting flies, 8753
 of trypanosomes by Stomoxyinae, 9035
 needle prick
 of *T. evansi* by *S. calcitrans*, 8744
 of *T. evansi*, 8744
 of *T. simiae*, 9038
 of trypanosomes, 8709, 9160
 of trypanosomiasis, 9003, 9032
 animal, 8741, 8844, 8848, 9146
 human, 8706, 9146

traps/trapping 8781, 9008, 9021, 9152, 9203

 attractiveness for Tabanidae, 8730, 8731, 9030
 baited, 9147
 barriers, 8727
 biconical, 8723, 8725, 8727, 8731, 8736, 8855, 9027, 9136, 9137, 9139, 9150, 9190
 bipyramidal, 9021, 9029, 9136
 catch, 8730, 8855, 8857, 8858, 9021, 9027, 9030, 9139, 9154
 Challier-Laveissière, 8855
 cloth, 9030, 9136
 colour, 9027, 9030, 9136
 cost-effectiveness, 9139
 design, 9136
 effectiveness, 9030, 9139
 efficiency, 8730, 8731, 8733, 8745, 8855, 8857, 8858
 epsilon, 8857, 9154
 F3, 8730, 8731, 8855, 8857, 9030, 9137
 Flint, 8855
 for population monitoring, 8723, 8725, 8727, 8991
 for population surveys, 8856, 9137, 9139
 for *Stomoxys* spp., 9136
 Gouteux, 8855
 Hanotier's tyre, 8733
 insecticide-impregnated, 8708, 8858, 8991, 8995, 9025, 9029, 9176, 9190
 deltamethrin, 8733, 9146
 Lancien monoconical, 8856
 Laveissière, 8855
 M1, 8857

M2, 8857
M3, 8857
Mérot, 8855
monoconical, 8731, 8855, 9139, 9143
monopyramidal, 8745, 9146
NG-2G, 8730, 8731, 9023, 9031, 9039, 9136
NGU, 9137
NGU2B, 9139
NGU2G, 9139
Nguruman, 8727
Noireau, 8855
odour-baited, 8727, 8730, 8731, 8858, 8995, 9021, 9023, 9027, 9030, 9136, 9137, 9150
pyramidal, 9139
pyriproxyfen-treated, 8736, 9150
screen-, 8730, 8731, 8855
shape, 9027, 9030
size, 9027
Vavoua, 8855, 9139, 9143

Trypacide

resistance, in *T. evansi*, 9201

trypanocides

acridine derivatives, 9078
camptothecin, 9087
evaluation
 amino acids, thiazole-containing, 9074
 peptides, thiazole-containing, 9074
human haptoglobin-related protein, 9070
human serum, 9211
 HDL-independent, 9071
hyperosmolar agents, 9214
naturally occurring
 in buffalo serum, 8782
 in eland serum, 8782
 plants extracts, 9214
 plant microtubule inhibitors, 8799
 plants
 Bridelia ferruginea, 8943
 Cannabis sativa constituents, 8806
 Calendula arvensis saponins, 8945
 Croton macrostachys, 8943
 Hedera helix saponins, 8945
 Piper guineense, 8943
 Sapindus mukurassi saponins, 8945
 Zanthoxylum chalybeum, 8943

new

 Agridine, efficacy, 8786
 Pirobenz, efficacy, 8785
5-nitrothiophene/oxime/ether derivatives, 8802
phosphonylmethylalkylpurines, 8940
ronidazole, 9217
screening, 9079
TherAmide, 8935
trypanothione, 9242

trypanoresistance

in cattle, 8908
 N'Dama, 8781
 trypanotolerant, 8782

West African Shorthorn, 8781

Zebu, 8765

in goats, 9185

Djallonké, 8769

in mice, 8752

in sheep, 9185, 9192

Djallonké, 8769

in wild animals, 8782

Trypanosoma brucei

acidic vacuoles, 8840

agglutination, 9009

alkyl dihydroxyacetone phosphate synthase, 9262

antigen

detection, 9180

intracellular, 9207

stage-specific, 9257

antigenic variation, 8830

basal body axoneme, 9261

bloodstream form, 8955, 8963, 9082, 9248

Ca²⁺/H⁺ exchange, 8840

Ca²⁺ storage, 9255

calmodulin, 8822

cdc2-related protein kinases, 9246

cell division, 8823

characterisation, 8949

population, 8948

codon usage of kinetoplasts, 9084

cysteine protein activity, 8925

cytokinesis, 8975

defect induction, 8956

cytoplasmic pH, 9255

cytoskeletal proteins, 9261

developmental cycle, 8844

differentiation, 8823, 9248

dihydrofolate reductase-thymidylate synthase, 9236

DNA-gyrase inhibition of 4-oxo-1,4-dihydro-3-pyridine carboxylic acid derivative, 9102

drug effects, 8799, 8802, 8943, 8954, 9217

drug targets, 9243

dyskinetoplastic mutant, 9101

effect of HDL-independent human serum factor, 9071

effects of nitric oxide, 8926

endoplasmic reticulum, 8825, 8967, 8979

ethanolamine transport and metabolism, 9253

flagellum, 8843

attachment zone, 9261

fructose-1,6-bisphosphate aldolase, 9232

GARP, *T. congolense*, expression on surface, 9094

G-protein, life cycle stage-specific, 9088

genetics

backcrossing, 8958, 9257

chromosomes, megabase-sized, 9227

crosses, 9118

diversity, 8948, 9225

endonuclease, 9113

editing domain-specific, 9110

episome, 8964

gene/s

Ca²⁺-ATPase, 8825
encoding, 8813
expression, 8825, 8832, 8964, 8981, 9105, 9121, 9229, 9236, 9260
invariant surface glycoprotein, 8982
isolation, 9236
loci, 8813
PARP, promoter, 8828
phosphoglycerate kinase-encoding, 9230
RNA, 9105, 9228, 9237
transcription, 9237
tubulin, cluster, 8819
VSG, 8830, 8832, 8964
genomes, nuclear, 8976
genomic organisation, 8982
inheritance, kinetoplast DNA maxicircles, 9118
karyotype analysis, 8948
linkage disequilibrium, 8949
nuclease, heterologous, 9110
polyadenylation, 9085
populations, 8948, 9225
procyclin promoter, 9258
recombination, 8830
ribosomal promoter, 9258
RNA
editing, 9109, 9113
elongation in transcription units, 9257
g, secondary structure of molecules, 9254
g-m chimeras, 9113, 9114
helicase activity, 8824
ligase, 9110, 9113, 9114
m, 9114
m, precursor, 9097
m, 3' terminal region, 9229
m, VSG, polyadenylation, 9085
mt, 9109
mt guide-m, chimera-forming activity, 9110
polymerases, bacteriophage T3 and T7, 8981
processing signals, 9097
sn, gene expression, 9105
sn, U2, transcription, 9237
sn, U3, common core structure, 8960
spliced leader analysis, 9240
spliced leader-associated, 8827
t, 9228
t, mitochondrial, 8834, 9241
t, upstream genes, 9105
sequence conservation, 8827
spliced leader cap structure, 9256
transcription unit, 9257
foreign, 8964
transcriptional control, 8830
trans-spliceosomal ribonucleoproteins, 8827
trans-splicing, 9085
VSG promoter, 9258
glyceraldehyde-3-phosphate dehydrogenase inhibition, 8980
glycosomal glyceraldehyde-3-phosphate dehydrogenase, 9239
glycosomal phosphoglycerate kinase inhibition, 9115

glycosomes, 8836, 9093, 9262

GPI

- anchor biosynthesis, 8979
- attachment requirements, 8953, 8968
- biosynthesis, 8967

Trypanosoma brucei (cont.)

GPI (cont.)

- biosynthesis (cont.)
 - role of inositol acylation, 9238
 - role of inositol deacylation, 9238
- inositol phosphate glycan from, 8928
- membrane anchors, 9112
- myristoylation reaction, 8811
- phospholipase
 - hydrolysis, 8930
 - inhibition, C, 8969
 - glycan requirements, 8969
- toxin, 8794
- 3-hydroxy-3-methylglutaryl CoA reductase activity, 8954
- in vitro* cultivation, 9082
- infecting cattle, 8753, 8861, 9203
 - Boran, 8881
 - Zebu, 8762
- infecting dogs, 8774, 8776, 8901
- infecting goats, 8878
 - Red Sokoto, 8772
- infecting mice, 8790, 8934, 8943, 9035, 9067, 9068, 9207
- infecting pigs, 8865
- infecting rabbits, 9217
- infecting rats, 8791, 8925, 9206, 9207, 9217
- infecting ruminants, 9175
- infecting sheep, 8878
 - West African Dwarf, 8775, 8900
- infecting tsetse, 8746, 8844, 8861, 8863, 8865, 8948, 8949, 9161, 9163
- infection rate
 - in goats, 8878
 - in sheep, 8878
- infectivity, potential human, 9146
- invariant surface glycoprotein, 8982
- isoenzymes, 8865, 8948, 8949
- isolates, sexual compatibility, 9089
- kinetoplast
 - base contents, 9084
 - DNA maxicircles, 9118
- lipid source, host plasma, 8955
- lipoamide dehydrogenase, 9243
- maturation in tsetse, 8863
- microbodies, N-terminal import signals, 9086
- microtubule polarity, 8975
- mitochondria, 8824, 9101, 9241
 - heat shock protein 70, 9101
- myristate exchange, 8811
- Nrk protein kinase, developmental regulation, 8817
- nuclear GTPase Ran/TC4, homologue, 8957
- organellar genome segregation, 8975
 - defects, 8956
- organelle biogenesis, 8972

- organelle positioning, 8975
- ornithine decarboxylase
 - heterodimer formation, 8970
 - inhibition, 9096
- paraflagellar rod, 8813, 8842
- phosphoenolpyruvate carboxykinase, 8836, 9098
- plasmid DNA replication, 8828
- procyclics, 8865, 8963, 8964, 9248
- procyclin, 9229
 - expression, 8821
- protein
 - cell surface, 8979
 - EF-hand calcium-binding, 8843
 - 39-kilodalton, 9091
 - MARP-1, 8809
 - MARP-2, 8809
 - phosphatase inhibition, 8956
 - procyclic acid repetitive, 8828
 - translation elongation factor-1 α , 8822
 - tyrosine kinase-mediated signal transduction, 8794
- sexual compatibility of isolates, 9089
- surface expression of *T. congolense* GARP, 9094
- taxonomy, sub-specific, 9083
- topoisomerase I inhibition, 9087
- transformation *in vitro*, 8963
- trypanothione reductase, 9243
- UDP-Gal:GPI anchor α 1,3-galactosyltransferase acceptor, 9252
- vacuolar acidity, 9255
- VSG, 8964
 - expression site promoter
 - PARP promoter-mediated activation, 9120
 - mRNA, 9085, 9229

***T. brucei* spp.**

- infecting trypanotolerant cattle, 9052
- kinetoplastid membrane protein 11, 9117
- life cycles, 9117
- trans-sialidases, 8816

T. brucei brucei

- bloodstream form, 8743, 8780, 8818, 8951, 9100
- characterisation, 8950
- chromatin, 8820
- concanavalin A-binding glycoproteins, 9104
- culture, 9104
- cyclical development, 8743
- DNA typing, 8950
- drug effects, 8804, 8806, 8940, 8941, 8942, 8945, 9072, 9074, 9076, 9078, 9215, 9219, 9220
- drug resistance, 8936, 8944
- effect of human haptoglobin-related protein, 9070
- effect of human serum trypanocidal factor, 9211
- flagellar cytoskeleton repetitive proteins, 9099
- glycosomal holo glyceraldehyde phosphate dehydrogenase, 9259
- glycosylation, 8814
- HDL sensitivity, 9246
- hexose-sugar catabolism, oligomycin sensitivity, 9100
- histone H1 protein amino acid sequence, 9231
- histones, characterisation, 8951
- hsp 70, immunogenic members, 9107

- infecting dogs, 8894, 9076
- infecting guinea pigs, 8922
- infecting leeches, 8864
- infecting mice, 8780, 8797, 8927, 8940, 8941, 8942, 9074, 9076, 9208, 9219
- infecting rabbits, 8743, 9212
- infecting rats, 8806, 8869, 8920, 8929, 9065, 9066, 9072, 9209, 9214, 9220
- infecting sheep, 9076
- infecting tsetse, 8743, 9160
- infection rates in tsetse, 8743
- isoenzyme electrophoresis, 8950
- kinetoplast membrane protein 11, 8796
- lysis by human serum, 8965
- maturation in tsetse, 8743
- metabolic inhibitors, 9226
- metacyclics, 8780
- methionine, soluble, 9226
- microtubules, 8804
- mitochondrial ribonucleoprotein complexes, 9111
- polyamines, intracellular, 8818
- procyclic form, 8743, 9104
- procyclic trypomastigotes, 8818
- pyridoxal uptake and metabolism, 9092
- pyridoxine uptake and metabolism, 9092
- RNA, g

- binding proteins, 9111
 - domains, 9111

- transformation, 8818

- trypanolysis, 8933

T. brucei gambiense

- antigen, detection, 9180

- characterisation, 8950

- DNA typing, 8950

- drug effects, 9080

- genetic heterogeneity, 9224

- infecting humans, 8742, 8747, 8750, 8753, 8867, 8869, 8873, 8875, 8876, 8890, 8998, 9004, 9040, 9041, 9043, 9046, 9049, 9051, 9164, 9167, 9168, 9170, 9171, 9172, 9173, 9174

- inosinate dehydrogenase gene amplification, 8841

- isoenzyme electrophoresis, 8950

- isoenzyme pattern, 8865

- lysates, 9251

- lysis by human serum, 8826

- topoisomerases, 9080

- trypanolytic activity of human serum, removal, 9251

T. brucei rhodesiense

- antigen, detection, 9180

- aspartate aminotransferase, 8759

- bloodstream form, 8759

- bloodstream trypomastigotes, 9036

- calmodulin, 9233

- cell surface, 8810

- differentiation, 9245

- drug effects, 8807, 9074, 9075, 9078, 9079

- EATRO 2340 stock, 9032

- endosomes, 8810

- Etat 1/10, 9036

- flagellar pocket antigen, 8896

- gene expression, 9244

- gene, serum resistance-associated, 8959
- Golgi, 8810
- human serum resistance, 9036
- human serum sensitivity, 9036
- infecting bushbuck, 9036
- infecting cattle, Boran, 9036
- infecting goats, 9036
- infecting humans, 8753, 8877, 8990, 9029, 9050, 9075, 9160, 9162, 9166, 9169, 9173
- infecting mice, 8924, 8935, 9036, 9074, 9213
- infecting monkeys, 8788, 9205
- infecting rats, 8807
- kinetoplastid membrane protein 11, 8796
- life cycle forms, 9245
- lysosomal membrane glycoprotein transport, 8810
- lysosomes, 8810
- maturation in tsetse, 9032, 9160
- metacyclics, 9036, 9249
- mitochondrial genome repositioning, 9245
- protein phosphatase inhibition, 9244
- β -tubulin gene, 9244
- VSG
 - gene promoter, 9249
 - like protein, 8959

T. congolense

- antigen, detection, 9180
- antigen expression in *Spodoptera frugiperda* cells, 9119
- BeNat 1.3, 8978
- characterisation
 - of populations, 9196
 - of stocks, 8879, 9033, 9177

***T. congolense* (cont.)**

- chromatin analysis, 8833
- congopain, 8906
- culture, 9104
- cysteine protease, 8906, 8925, 9235
- development in tsetse, 8741
- DNA, 8912
- drug effects, 8940, 9079, 9217, 9218
- drug resistance, 8912, 8913, 9064, 9077, 9196
 - multiple, 8916
- drug sensitivity, 8803, 8912, 9196, 9216
- drug targets, 8838
- establishment in tsetse, 9034
- flagellum-mediated adhesion, 9095
- forest type, 9177
- GARP expression on *T. brucei*, 9094
- genetics
 - gene conversion, 8971
 - gene expression, 8971
 - mosaic transcripts, 8966
- glycoproteins, concanavalin A-binding, 9104
- IL 1180, 8887, 8912, 9054, 9196
- IL 3274, 8912, 8913, 9196
- infecting cattle, 8758, 8760, 8803, 8861, 8887, 8894, 8896, 8906, 9063, 9190, 9203, 9216
 - Boran, 8768, 9054, 9060
 - crosses, 9176
 - Keteku, 9052

Muturu, 9052
N'Dama, 8763, 8770, 8783, 8784, 9052, 9054, 9057
Zebu, 8762, 8893, 9064
infecting dogs, 8888, 8894
infecting goats, 8758, 8786, 8878, 8912, 8913, 9196
Djallonké, 8769
Red Sokoto, 8766, 9185
Sahelian Fulani, 8769
West African Dwarf, 8766, 8902, 9185
infecting mice, 8940, 9035, 9077
infecting oxen, 9020
infecting rabbits, 9210, 9217, 9218
infecting rats, 8925, 9069, 9158, 9214, 9217
infecting ruminants, 9175
infecting sheep, 8758, 8878, 8895, 9192
crosses, 9176
Djallonké, 8769, 8902, 9176
Sahelian Fulani, 8769
Scottish Blackface, 8897, 8898, 8899, 9186, 9187, 9188
West African Dwarf, 9185
Yankasa, 9185
infecting tsetse, 8739, 8741, 8746, 8754, 8803, 8861, 8863, 8865, 8896, 9032, 9033, 9158, 9161, 9163
infection rate
in goats, 8878
in sheep, 8878
infectivity, 9216
interaction with endothelial cells, 8962
isoenzyme profile, 8947
Kilifi, 9033, 9161
kinetics of development, 8895
kinetoplastid membrane protein 11, 8796, 9117
life cycle, 8741, 8974, 9108, 9117
major surface glycoprotein, 9094
maturation in tsetse, 8863, 9032
metacyclics, 8895
pathogenicity, 8906
of different stocks, 8902
phosphoglycerate kinase
compartmentalisation, 8971
expression, 8971
polyadenylation, regulation, 8974
procyclic form, 9104, 9234
protein kinases, 9108
proteins, kinetoplast-associated, 8838
riverine-forest, 9033, 9161
RNA editing, regulation, 8974
savanna, 9033, 9161, 9177
stocks
EATRO 2340, 9032
SIKUDA88, 9032
1/148 FLY9, 9032
trans-sialidases, 8816, 9234
trypanothione reductase inhibition, 8812
tyrosine phosphorylation, 9108
VAT, metacyclic, expression, 8895
virulence, 9185

VSG

- complementary DNA sequence, 8978
- sequence determination, 8831

T. cruzi

- glycosomal glyceraldehyde-3-phosphate dehydrogenase expression in *E. coli*, 9239

T. equiperdum

- drug effects, 9079, 9087
- kinetoplast DNA maxicircles, 8977
- kinetoplast DNA minicircles, segregation, 9116
- topoisomerase I inhibition, 9087
- topoisomerase II activity, mitochondrial, 9116

T. evansi

- antigen, detection, 9180
- antigen, soluble, 8779
- cloning, 9200
- cryopreservation, 8918
- drug effects, 8943, 9079, 9217
- drug resistance, 8805, 8916, 8939, 9200, 9201, 9223
- drug-resistant phenotype, 8916
- drug sensitivity, 9200, 9222
- genotype, 8912
- geographical distribution, 9103
- growth rate, 9200
- host range, 9103
- infecting camels, 8744, 8756, 8757, 8764, 8771, 8778, 8882, 8883, 8892, 8905, 8916, 9182, 9200, 9201
- infecting dogs, 8891, 8903, 8915, 8921
- infecting donkeys, 8889
- infecting goats, 8744, 8756
- infecting guinea pigs, 8920
- infecting mice, 8792, 8805, 8882, 8917, 8921, 8923, 8943, 9035
- infecting rabbits, 8919, 8920, 9217
- infecting rats, 8793, 8917, 8931, 9217
- infecting sheep, 8756
- infection rate in camels, 8757
- γ -irradiated, 8793, 8931
- karyotype, electrophoretic, 8916
- kinetoplast DNA maxicircle, loss of, 9103
- pyruvate production, 9222
- transmission, 8730, 8744

***T. godfreyi* n. sp.** 9033

- behaviour, 8947
- bloodstream trypomastigotes, 8947
- characterisation, 8947
- DNA probe, 8947
- isoenzyme profile, 8947
- kinetoplast, 8947
- life cycle, 8947
- morphometrics, 8947
- undulating membrane, 8947

T. simiae 9033

- CP 11, 9038
- CP 813, 9038
- culture, 9104
- glycoproteins, concanavalin A-binding, 9104
- infecting goats, 9038
- infecting pigs, 9038

infecting tsetse, 8746, 9038
isoenzyme profile, 8947
kinetoplastid membrane protein 11, 8796, 9117
life cycle, 9117
procyclic form, 9104

T. vivax

antigen, detection, 9180
drug resistance, 9064
IL 2337, 8887, 9037
IL 3096, 9037
infecting biting flies, 9053
infecting camels, 8755
infecting cattle, 8754, 8755, 8758, 8760, 8861, 8887, 8896, 9053, 9190, 9203
 Boran, 9037, 9189
 crosses, 9176
 Galana, 9189
 Keteku, 9052
 Muturu, 9052
 N'Dama, 8763, 8770, 8773, 8783, 8784, 9052
 Zebu, 8762, 8773, 8893, 9064
infecting goats, 8758, 8878, 9037, 9053
 Djallonké, 8769
 Sahelian Fulani, 8769
infecting mice, 9035
infecting oxen, 9020
infecting ruminants, 9175
infecting sheep, 8758, 8878, 9053, 9056
 crosses, 9176
 Djallonké, 8769, 9176
 Sahelian Fulani, 8769
 West African Dwarf, 8884, 8885, 8886
infecting tsetse, 8746, 8754, 8861, 8896, 9037
infection rates
 in goats, 8878
 in sheep, 8878
 in tsetse, 9037
transmission, 8730

trypanosome/s

antigenic variation, 8709, 9090
biochemistry, 8709
biology, 8781, 8839
bloodstream form, 9009, 9017, 9159
characterisation, 8879, 9160
chromatin, functional morphology, 8961
cultivation, 8709
 in vitro, 8865
development in tsetse, 8863
differentiation in tsetse, 8863
drug-resistant, 8777, 8787, 8877, 8904, 8988, 9058, 9059, 9062, 9193
evolution, 8951
genetics, 8829
glyceraldehyde-3-phosphate dehydrogenase inhibition, 9122
glycosomes, 8837
human serum resistance, 9160
human serum sensitivity, 9160
identification, 9159
infecting cattle, 8765, 9150

N'Dama, 8767, 8783

Zebu, 9058, 9059

infecting domestic animals, 8865, 9146

infecting lions, 8738

infecting tsetse, 8851, 8858, 8863, 8865, 9131, 9146, 9150, 9159

infecting waterbuck, 8782

infecting wild animals, 8880

infectivity, potential human, 9146

isoenzymes, 8865

trypanosome/s (cont.)

lectin binding sites, 9160

life cycle, 8709

metacyclics, 8865

morphology, 8709

non-variable antigens, 8973

pathogenicity, 9159

physiology, 8709

populations, drug-resistant, 8787

prevalence

in cattle, 9190

in Côte d'Ivoire, 9176

in Ethiopia, 8904, 9148

N'Dama

in Gambia, 8767

Zebu

in Ethiopia, 8777, 8904, 9059

in lions, Tanzania, 8738

in sheep, Côte d'Ivoire, 9176

procyclics, 8865, 9009, 9017

RNA genes, 9106

salivarian, 8709

surface antigen expression, 8829

taxonomy, 8709

transmission, 8709, 8730

VATs, 8973

trypanosomiasis, general

control, impact on land use, 9124

diagnosis, 8709, 9123

diagnostic markers, 8838

distribution, modelling, 9002

drug targeting, 8838

immunology, 8709

impact, 9003

monitoring, 9143

pathology, 8709

prevalence, 9125

modelling, 9002

risk, 9003, 9125, 9127

transmission, 9003

treatment, 8709, 8798, 8800, 9081

trypanosomiasis in animals 9123

clinical symptoms/pathological effects, 8761, 8777, 8903, 8904, 9059

abortion, 8756, 8763, 8884, 8904, 9055, 9056, 9059, 9181, 9189, 9193, 9195

anaemia, 8760, 8768, 8769, 8774, 8775, 8776, 8778, 8781, 8782, 8888, 8891, 8892, 8897, 8901, 8985, 9060, 9186, 9187, 9188, 9194

circulatory disturbances, 8774

corneal opacity, 8891, 8901

dehydration, 8893
dry skin, 8883, 8892
elevated pulse rate, 8774, 8889
elevated respiration rate, 8774, 8889
elevated temperature, 8774, 8889, 8891, 8901
emaciation, 8763, 8883, 8892, 8905, 9181
eosinophilia, 8892
fever, 8883, 8884, 8892, 8905
haematological changes, 8889, 8892
haemorrhage, 8888
hepatosplenomegaly, 8888
hypoglycaemia, 8889
impaired fertility, 8985, 9195
infertility, 9055
lachrymation, 8883, 8892
leucocytosis, 8892, 9186
leucopenia, 8774
listlessness, 8889
loss of condition, 8774, 8893, 8897, 8905, 8985
lymphadenomegaly, 8888
lymphocytosis, 8778
lymphopenia, 8778
macrocytosis, 8775
monocytosis, 8774, 8892
neurological disorder, 8888
ocular impairment, 8774, 8901
oedema, 8883, 8889, 8901, 8905
oestrous irregularity, 9055, 9056
pale mucous membranes, 8883, 8892
premature birthing, 9055, 9056
pyrexia, 8897, 9186
reduced growth rate, 8777, 8784, 8884, 8897, 8985, 9187, 9190, 9194, 9195
reproductive abnormalities, 8884, 8886, 8893, 8899, 8904, 9055
staggering gait, 8889
swollen lymph nodes, 8763
testicular degeneration, 8893
weakness, 8763, 8883, 8892, 8905, 8985, 9181
weight loss, 8756, 8769, 8770, 8884
constraint to production, 8737, 8781, 8787, 8845, 8984, 8985, 9126
control, 8736, 8780, 8781, 8848, 8849, 8983, 8985, 8989, 9126, 9143, 9146, 9147
diagnosis, 8761, 8879, 9053, 9177, 9180
epidemiology, 8741, 8983
in Burkina Faso, 9177
in Côte d'Ivoire, 9143
in sub-Saharan Africa, 8709, 8737, 8984
in Togo, 8846, 9145
in Uganda, 9146
in Zaire, 8753, 8845
in Zululand, 8844
infection rate, 9143
monitoring, 9143
prevalence
 in Burkina Faso, 9178
 in Zaire, 8845
prophylaxis, 8911
survey, Nigeria, 9053
transmission, 8741, 8848, 9146

treatment, 8785, 8786, 8787, 8911, 9055, 9145

trypanosomiasis in camels

control, 9201

diagnosis, 9182

in Egypt, 8883, 8892

in Ethiopia, 8764

in Kenya, 9200, 9201

in Mauritania, 8756, 8757

in United Arab Emirates, 8778

incidence, in Chad, 8755

pathology, 8892

prevalence, in Kenya, 9181, 9182

risk factors, 8757

treatment, 8883, 8892, 8916, 9182

T. evansi infection, 8756, 8757, 8764, 8778, 8883, 8892, 9201

T. vivax infection, 8755

trypanosomiasis in cattle

control, 8737, 8781, 9062, 9151, 9157

diagnosis, 8753, 8754, 8760, 8904, 9053

epidemiology, 8725, 9008

immunology, 9060

in Central African Republic, 8723

in Chad, 8755

in Ethiopia, 8725, 8737, 8777, 8904, 9055, 9059, 9156, 9195

in Gambia, 8773, 9128

in Kenya, 9064, 9194, 9197

in Nigeria, 8754, 8893, 9052, 9053, 9175

in sub-Saharan Africa, 8991, 8993

in Tanzania, 8861

in Togo, 8760, 9002, 9135, 9138

in Uganda, 9203

in Zaire, 8753, 8763

in Zambia, 9125

in Zululand, 8844, 8985

incidence

in Chad, 8755

in Gambia, 8773, 9002

in Kenya, 9194, 9197

in Zaire, 8753

pathology, 8768, 8893

prevalence

in Ethiopia, 8737, 8777, 8890, 8904

in Gambia, 9002, 9128

in Nigeria, 8754, 8893, 9052, 9053, 9175

in Togo, 9002, 9135

in Zambia, 9125

risk, 8725, 8737, 8904

in Ethiopia, 8725, 8777, 8890, 8904, 8988, 9058, 9059

in Uganda, 9153

spatial progression, modelling, 9008

survey, Togo, 8760, 9135

treatment, 8723, 8777, 8781, 8861, 8904, 9053, 9059, 9062, 9195, 9203

T. brucei infection, 8861, 9052, 9203

T. congolense infection, 8763, 8861, 8893, 9052, 9064, 9203

T. vivax infection, 8763, 8773, 8861, 8893, 9052, 9053, 9064, 9203

trypanosome challenge, Kenya, 9064

trypanosomiasis in dogs

- T. congolense* infection
 - pathology, 8888
- T. evansi* infection
 - pathology, 8891
 - treatment, 8891

trypanosomiasis in domestic animals

- diagnosis, 8761

trypanosomiasis in goats

- diagnosis, 8878
- effect on production, 9202
- prevalence
 - in Nigeria, 8878, 9175
 - in Uganda, 9202
- prophylaxis, 9202

trypanosomiasis in humans

- clinical symptoms/pathological effects, 8748, 8868
 - adrenal insufficiency, 9050
 - anaemia, 8749
 - brain reactivity abnormalities, 8873
 - circadian rhythm disturbances, 8870, 8871, 8872, 8874, 9048
 - CNS abnormalities, 8749, 9045, 9046, 9047
 - coma, 9046
 - dyspnoea, 9041
 - fatigue, 9044
 - fever, 9041, 9044
 - hepatosplenomegaly, 9041
 - increased pulse rate, 9041
 - lesion, 9044
 - lymphadenopathy, 9041
 - meningoencephalitis, 8747, 8871, 8872, 8873, 8874, 9047, 9048
 - myalgia, 9044
 - myositis, 9041
 - oedema, 9041, 9047
 - polyneuritis, 9041
 - rash, 9041, 9044
 - reactive encephalopathy, 9051
 - sleep disturbances, 8747, 8749, 8870, 8871, 8872, 8874, 9042, 9043, 9046, 9047, 9048
 - weight loss, 9041
- control, 8751, 9146
 - programmes, 8742, 8745, 8876, 8994, 9147, 9162, 9165, 9166

trypanosomiasis in humans (cont.)

- detection, 9165
- diagnosis, 8748, 8867, 8876, 9040, 9041, 9044, 9123, 9164, 9166, 9168, 9169, 9170, 9180
- drugs, new, 9122
- environmental factors, 8994
- epidemics, 8707, 8847, 8990, 9160
- etiology, 8868
- historical aspects, 8706, 8707, 8745, 8847, 8986, 8990, 9007
- immunity, 9168
- immunology, 8749, 8869, 9045, 9046
- in Africa, 8709, 9007
 - East, 8008, 9007
 - sub-Saharan, 8991
- in Central African Republic, 8994
- in Chad, 8994
- in Congo, 8847, 8870, 8871, 8872, 9007, 9170

in Côte d'Ivoire, 8726, 8736, 8742, 8862, 8865, 8871, 8994, 9165, 9170
in Equatorial Guinea, 8745, 8994
in Kenya, 9147
in Sudan, 9004
in Tanzania, 9007
in Uganda, 8990, 8994, 8998, 9007, 9027, 9029, 9040, 9146, 9160, 9162, 9166
in Zaire, 8707, 8748, 8753, 8876, 9049, 9051, 9167, 9168
incidence
 in Côte d'Ivoire, 8742
 in Uganda, 9166
 in Zaire, 8876, 9167, 9168
modelling, 8868
monitoring, 9165
pathogenesis, 8706
pathology, 9042, 9045, 9046
prevalence
 in Côte d'Ivoire, 8862
 in Equatorial Guinea, 8745
prevention, 8706
relapse, 9168, 9172
research, 8706
risk, 8984, 8994, 9167, 9168
risk factors, 8742, 8862, 9162
risk index, 8862
surveillance, 8745, 9040, 9165, 9166
transmission, 8706, 9146
treatment, 8706, 8707, 8748, 8751, 8867, 8877, 8998, 9041, 9122, 9168
 drug, 8749, 9250
 arsenical, 8707, 8877
 combinations, 8877, 8998
 DFMO, 8751, 8752, 8867, 8877, 8998, 9004, 9171, 9172, 9173
 dimercaprol, 9044
 diminazene, 8876, 9172
 diminazene aceturate, 8877
 imidazoles, 8877
 melarsoprol, 8750, 8867, 8876, 8877, 8998, 9041, 9044, 9049, 9050, 9051, 9172
 nifurtimox, 8877, 9172
 pentamidine, 8867, 8875, 8877, 9172, 9174
 prednisolone, 9041, 9051
 suramin, 8867, 8877, 9041, 9044, 9050, 9172, 9173
T. b. gambiense infection, 8742, 8747, 8750, 8753, 8867, 8869, 8873, 8875, 8876, 8990, 8998,
 9004, 9040, 9041, 9043, 9046, 9049, 9051, 9164, 9167, 9168, 9170, 9171, 9172, 9173, 9174
T. b. rhodesiense infection, 8753, 8808, 8877, 8990, 9029, 9050, 9075, 9160, 9162, 9166, 9169,
 9173

trypanosomiasis in livestock

control, 8708, 8985, 8989, 8997
in Africa, 8989, 8997
 sub-Saharan, 8709
in Ethiopia, 8866
in Senegal, 8708
in Zaire, 8845
pathology, 8985
prevalence, 9127

trypanosomiasis in sheep

diagnosis, 8878
effect on production, 9202
effect on reproduction, 9056

pathology, 8897

prevalence

in Nigeria, 8878, 9175

in Uganda, 9202

prophylaxis, 9202

trypanosusceptibility

in cattle, 8906, 9183

Boran, 8768, 9054

Galana, 9189, 9194

N'Dama

effect of helminth infection, 8770

Zebu, 9195

in goats

Djallonké, 8769

effect of haemoglobin type, 9185

Sahelian Fulani, 8769

in sheep

Djallonké, 8769

effect of haemoglobin type, 9185

Sahelian Fulani, 8769

trypanotolerance 8709, 9055

expression, 8782

genetics of, 8910, 9194, 9195

heritability, 8781

markers, 8849, 8908

in buffalo

control of anaemia, 8782

control of parasitaemia, 8782

in cattle, 8782, 8906, 9183

Boran, 9189, 9194

Borgou, 8907, 9061

control of parasitaemia, 8783

for trypanosomiasis control, 8780, 8781, 8849

Galana, 9194

Keteku, 9052

Muturu, 9052

N'Dama, 8781, 8783, 8784, 8845, 8909, 8910, 9052, 9054, 9057

production economics, 8845, 8846

West African Shorthorn, 8781

Zebu, 9194

in dogs, 8894

in goats, 8902

in sheep, 8902

modelling, in mice, 8780

parameters of, 8780, 8784

selection for, 8780, 8849

traits

PCV regulation, 8781

Trypanozoon

enzyme profiles, 8808

genetics, 8808

hosts, 8808

in Uganda, 8808, 9146

infecting domestic animals, 9146

infecting tsetse, 9033

infectivity, potential human, 9146

isolates, characterisation, 8808

maturation in tsetse, 8739, 9032
prevalence in tsetse, Côte d'Ivoire, 9033
prevalence rate
 in cattle, Uganda, 9146
 in pigs, Uganda, 9146

tsetse belt

 in Africa, 8985
 Zambezi, 8992

tsetse eradication 8730, 8984, 9003, 9025, 9026

 in Senegal, 8708
 in Zimbabwe, 8992
 in Zululand, 9152

Uganda

Busoga

 trypanosomiasis in humans, *rhodesiense*, 9029
 historical aspects, 8990
 risk factors, 9162

G. pallidipes in, 9158

northwest

 trypanosomiasis in humans, *gambiense*, 9040

southwest

G. f. fuscipes in, 9146
 T. brucei isolates from, 9089
 trypanosome infection in cattle, 8759
 trypanosomiasis
 in animals, 9146
 in cattle, 9203
 in humans, 9146
 rhodesiense, 9166
 Trypanozoon isolates from, 8808, 9146
 tsetse control, trapping, 9146
 tsetse density, 9146

southern

 trypanosomiasis in humans, 8994
 T. b. gambiense from, 9224
 trypanosomiasis
 in goats, prevalence, 9202
 in humans, 9007, 9029, 9160
 gambiense, 8998
 in sheep, prevalence, 9202
 risk to cattle, 9153
 tsetse control, 9007, 9029, 9153
 trapping, 9029

United Arab Emirates

 trypanosomiasis in camels, 8778

vaccination

 in cattle, 8896

variable antigen type (VAT)

 in diagnostic testing, 9164
 T. b. gambiense, 9164

variant surface glycoprotein (VSG)

T. brucei
 expression site promoter, 9120

- gene expression site, 8832, 8964, 9229
- gene transcription, 8830, 8964
- promoter, 9258
- mRNA polyadenylation site, 9085
- T. b. gambiense*, 9164
- T. b. rhodesiense*, 8959
 - gene, putative promoter, 9249
- T. congolense*
 - complementary DNA sequence, 8978
 - sequence determination, 8831

warthog

- attractiveness for tsetse, 8728
- host
 - for *G. longipennis*, Kenya, 9039
 - for *G. pallidipes*, Kenya, 9039
 - for tsetse, 8728, 8947
- trypanosome infection
 - prevalence, Côte d'Ivoire, 8880
 - T. godfreyi* n. sp., Gambia, 8947

waterbuck

- blood, for tsetse diet, 8712, 9129
- trypanosome infection, 8782
 - prevalence, Côte d'Ivoire, 8880
- trypanotolerance, mechanisms, 8782

wild animals

- trypanoresistance, 8782
- trypanosome infection, identification, 9170
- trypanosomosis, Côte d'Ivoire, 8880
- trypanotolerance, 8985

Zaire

- southwestern
 - G. fuscipes* in, 8763
 - G. tabaniformis* in, 8763
 - trypanosomiasis in cattle, 8763
- trypanosome infection in cattle, 8783
- trypanosomiasis
 - in cattle, 8753, 8845
 - prevalence, 8845
 - in humans, 8707, 8748, 9049
 - gambiense*, 8753, 8876, 9051, 9167, 9168
 - incidence, 8876, 9167, 9168
 - rhodesiense*, 8753
 - survey, 8876, 9167, 9168
- tsetse challenge to cattle, 8783, 8784

Zambia

- Eastern Province
 - trypanosomiasis in cattle, 9125
 - tsetse control studies, 9125
- G. morsitans* in, 8999
- G. pallidipes* in, 8999
- Luangwa Valley
 - G. pallidipes* in, 8746
 - trypanosomiasis in goats, 9184
- trypanosomiasis, control, 8999
- tsetse control, 8999

tsetse distribution, 8997

Zimbabwe

G. morsitans in, 8857

G. m. morsitans in, 8728, 8853, 9154

G. pallidipes in, 8728, 8853, 8857, 9151, 9154

spraying, ground, 9028

T. congolense isolates from, 9216

tsetse behaviour studies, 8728, 9019

tsetse control, 8992

 cattle treatment studies, 9151, 9157

 environmental impact, 8732, 8734, 9028

 game elimination, 8992

 spraying, 8732, 8734, 9028, 9154

 trapping, 8857, 9030, 9157

tsetse distribution, 8992

tsetse eradication, 8992

tsetse sampling studies, 8724

Zambezi fly belt, 8992

Zululand

G. austeni in, 9152

G. brevipalpis in, 9152

trypanosomiasis

 in cattle, 9152

 historical aspects, 8844, 9152

 in livestock, 8985

tsetse control, 9152