

REFERENCES

Adovelande, J and Schrevél, J. 1996. Carboxylic ionophores in malaria chemotherapy: The effects of monensin and nigericin on *Plasmodium falciparum in vitro* and *Plasmodium vinckei* petteri in vivo. LIFE SCIENCES. 59: 309.

Aikawa, M. 1971. *Plasmodium*: the fine structure of malarial parasites. **EXPERIMENTAL** PARASITOLOGY. 30: 284.

Aikawa, M. 1977. Variations in structure and function during the life cycle of malaria parasites.

BULLETIN OF THE WORLD HEALTH ORGANIZATION. 55: 139.

Aikawa, M and Seed, T.M. 1980. Morphology of plasmodia. *In*: Malaria, Volume 1, Kreier, J.P. Academic Press, New York. p.285 - 344.

Anderson, R., Beyers, A.D., Savage, J.E and Nel, A.E. 1988. Apparent involvement of phopholipase A₂, but not protein kinase C, in the pro-oxidative interactions of clofazimine with human phagocytes. BIOCHEMICAL PHARMACOLOGY. 37: 4635.

Anderson, R. 1995. The activated neutrophil - formidable forces unleashed. SOUTH AFRICAN MEDICAL JOURNAL, 85: 1024.

Arbiser, J.L and Moschella, S.L. 1995. Clofazimine: A review of its medical uses and mechanisms of action. JOURNAL OF THE AMERICAN SOCIETY OF DERMATOLOGY. 32: 241.

Atkinson, C.T and Aikawa, M. 1990. Ultrastructure of malaria-infected erythrocytes. BLOOD CELLS. 16: 351.

Baggiolini M., Boulay, F and Badwey, J.A. 1993. Activation of neutrophil leukocytes: chemoattractan receptors and respiratory burst. FASEB. 7: 1004.

Baker, L., Van Schoor, J.D., Barlett, G.A and Lombard, J.H. 1993. Malaria prophylaxis- a South African viewpoint. SOUTH AFRICAN MEDICAL JOURNAL. 83: 126.

Bannister, L.H and Dluzewski, A.R. 1990. The ultrastructure of red cell invasion in malaria infections: A review. BLOOD CELLS. 16: 257.

Bannister, L.H and Mitchell, G.H. 1995. The role of the cytoskeleton in *Plasmodium* falciparum merozoite biology: an electron-microscopic view. ANNALS OF TROPICAL MEDICINE AND PARASITOLOGY. 89: 105.

Barnwell, J.W. 1990. Vesicle-mediated transport of membrane and proteins in malaria-infected erythrocytes. **BLOOD CELLS. 16**: 379.

Barry, V.C., Belton, J.G., Conalty, M.L., Denneny, J.M., Edward, D.W., O'Sullivan, J.F., Twomey, D. and Winder, F. 1957. A new series of phenazines (rimino-compounds) with high antituberculosis activity. NATURE. 179: 1013.

Baruch, D.I., Gormley, J.A., Ma, C., Howard, R.J and Pasloske, B.L. 1996. *Plasmodium falciparum* erythrocyte memebrane protei 1 is a parasitized erythrocyte receptor for adherence to CD36, thrombospondin, and intracellular adhesion molecule 1. **PROCEEEDINGS OF THE NATIONAL ACADEMY OF SCIENECE USA. 93**: 3497.

Basco, L.K and Le Bras, J. 1990. Reversal of chloroquine resistance with desipramine in isolates of *Plasmodium falciparum* from Central and West Africa. TRANSACTIONS OF THE ROYAL SOCIETY OF TROPICAL MEDICINE AND HYGIENE. 84: 479.

Basilico, N., Pagani, E., Monti, D., Olliaro, P and Taramelli, D. 1998. A microtitre-based method for measuring the haem polymerization inhibitory activity (HPIA) of antimalarial drugs.

JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY. 42: 55.

Bejon, P.A., Bannister, L.H., Fowler, R.E., Fookes, R.E., Webb, S.E., Wright, A and



Mitchell G.H. 1997. A role for microtubules in *Plasmodium falciparum* merozoite invasion. PARASITOLOGY. 114: 1.

Bennet, V. 1985. The membrane skeleton of human erythrocytes and its implications for more complex cells. ANNUAL REVIEW OF BIOCHEMISTRY. 54: 273.

Berendt, A.R., Ferguson, D.J.P and Newbold, C.I. 1990. Sequestration in *Plasmodium falciparum* malaria: sticky cells and sticky problems. PARASITOLOGY TODAY. 6: 247.

Berendt, A.R., Ferguson, D.J.P., Gardner, J., Turner, G., Rowe, A., McCormick, C., Roberts, D., Craig, A., Pinches, R., Elford, B.C and Newbold, C.I. 1994. Molecular mechanisms of sequestration in malaria. PARASITOLOGY. 108: S19.

Bianco, A.E., Battye, F.L and Mitchell, G.F. 1986. Plasmodium falciparum: rapid quantification of parasitemia in fixed parasite cultures by flow cytometry. EXPERIMENTAL APARSITOLOGY. 62, 275.

Bitoni, A.J., Sjoersma, A., McCann, P.P., Kyle, D.E., Odoula, A.M.J., Rossan, R.N., Milhous, W.K and Davidson, D.E (Jr). 1988. Reversal of chloroquine resistance in malaria parasite *Plasmodium falciparum* by desipramine. SCIENCE. 242:1301.

Bjorkman, A and Phillips-Howard, P.A. 1990. The epidemiology of drug-resistant malaria.

TRANSACTIONS OF THE ROYAL SOCIETY OF TROPICAL MEDICINE AND HYGIENE. 84: 177

Bland, J.M and Altman, D.G. 1986. Statistical methods for assessing agreement between two methods of clinical measurement. THE LANCET. 307.

Boonpucknavig, V., Srichaikul, T and Punyagupta, S. 1984. Clinical pathology. *In*: Handbook of experimental pharmacology, antimalarial drugs 1, **Peters, W and Richards, W.H.G.** Springer-Verlag, New York. p. 127 - 168.



Bordmann, G., Favre, N and Rudin, W. 1997. Malaria toxins: effects of murine spleen and bone marrow cell proliferation and cytokine production in vitro. PARASITOLOGY. 115: 475.

Bosia, A., Ghigo, D., Turrini, E., Nissani, E., Pescarmona, G.P and Ginsburg, H. 1993. Kinetic characterization of Na+/H+ antiport of *Plasmodium falciparum* membrane. JOURNAL OF CELL PHYSIOLOGY. 254: 527.

Bouharoun-Tayoun, H., Attanath, P., Sabchareon, A., Chongsuphajaisiddhi, T and Druilhe, P. 1990. Antibodies that protect humans against Plasmodium falciparum blood stages do not on their own inhibit parasite growth and invasion in vitro, but act in cooperation with monocytes. JOURNAL OF EXPERIMENTAL MEDICINE. 172: 1633.

Bouharoun-Tayoun, H., Oeuvray, C., Lunel, F and Druihle, P. 1995. Mechanisms underlying the monocyte-mediated antibody-dependent killing of *Plasmodium falciparum* asexual blood stages. JOURNAL OF EXPERIMENTAL MEDICINE. 182: 409.

Boulter, M.K., Bray, P.G., Howells, R.E and Ward, S.A. 1993. The potential of desipramine to reverse chloroquine resistance of *Plasmodium falciparum* is reduced by its binding to plasma proteins. TRANSACTIONS OF THE ROYAL SOCIETY OF TROPICAL MEDICINE AND HYGIENE. 87B: 303.

Bozhao, X., Xianqi, X., Webber, R.H and Lines, J.D. 1998. Comparison of the effect of insecticide-treated bed nets and DDT residual spraying on the prevalence of malaria transmitted by *Anopheles anthropophagus* in China. TRANSACTIONS OF THE ROYAL SOCIETY OF TROPICAL MEDICINE AND HYGIENE. 92: 135.

Brasseur, P., Kouamouo, J., Moyou-Somo, R and Druilhe, P. 1992. Multi-drug resistant falciparum malaria in Cameroon in 1987 - 1988 II. Mefloquine resistance confirmed *in vivo* and *in vitro* and its correlation with quinine resistance. AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE. 46: 8.

Bray, P.G., Howells, R.E and Ward, S.A. 1992. Vacuolar acidification and chloroquine sensitivity in *Plasmodium falciparum*. BIOCHEMICAL PHARMACOLOGY. 43: 1219.

Bray, P.G and Ward, S.A. 1993. Malaria chemotherapy: resistance to quinoline-containing drugs in *Plasmodium falciparum*. FEMS MICRIBIOLOGY LETTERS. 113: 1.

Bray, P.G., Boulter, M.K., Ritchie, G.Y., Howells, R.E and Ward, S.A. 1994. Relationship of global chloroquine transport and reversal of resistance in *Plasmodium falciparum*.

MOLECULAR AND BIOCHEMICAL PARSITOLOGY. 63: 87.

Bray, P.G., Mungthin, M., Ridely, R.G and Ward, S.A. 1998. Access to hematin: the basis of chloroquine resistance. MOLECULAR PHARMACOLOGY. 54: 170.

Breton, C.B., Blisnick, T., Jouin, H., Barale, J.C., Rabilloud, T., Langsley, G and Da Silva, L.H.P. 1992. *Plasmodiun chabaudi* p68 serine protease activity required for merozoite entry into mouse erythrocytes. **PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCE** USA. 89: 9647.

Bruce-Chwatt, L.J., Black, R.H., Canfield, C.J., Clyde, D.F., Peters, W and Wernsdorfer, W.H. 1981. Chemotherapy of malaria (2nd edition). World Health Organization: Geneva.

Butler, D. 1997. Time to put malaria control on the global agenda. NATURE. 386: 535.

Byers, T.J., and Branton, D. 1985. Visualization of the protein associations in the erythrocyte membrane skeleton. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCE USA. 82: 6153.

Cabantchik, Z.I. 1989. Altered membrane transport of malaria-infected eryrhrocytes: A possible pharmacological target. BLOOD. 74: 1464.

Canfield, C.J., Pudney, M and Gutteridge, W.E. 1995. Interactions of atovaquone with other antimalarial drugs against *Plasmodium falciparum in vitro*. **EXPERIMENTAL PARASITOLOGY. 80**: 373.

Carlson, J., Helmby, H., Hill, A.V.S., Brewster, D., Greenwood, B.M and Wahlgren, M. 1990. Human cerebral malaria: association with eryrhrocyte rosetting and lack of anti-rosetting antibodies. LANCET. 336: 1457.

Carter, R and Walliker, D. 1975. New observations on the malaria parasites of rodents of the Central African Republic - *Plasmodium vinckei petteri* subsp. nov. and *Plasmodium chabaudi* Landau 1965. ANNALS OF TROPICAL MEDICINE AND PARASITOLOGY. 69: 187.

Chen, M., Theander, T.G., Christensen, S.B., Hviid, L., Zhai, L and Kharazmi, A. 1994. Lichochalcone A, a new antimalarial agent, inhibits *in vitro* growth of the human parasite *Plasmodium falciparum* and protects mice from *P.yoelii* infection. ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. 38: 1470.

Childs, G.E., Boudreau, E.F., Wimonwattrawatee, T., Pang, L and Milhous, W.K. 1991.

In vitro and clinical correlates of mefloquine resistance of Plasmodium falciparum in eastern

Thailand. AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE. 44: 553.

Chishti, A.H., Maalouf, G.J., Marfatia, S., Palek, J., Wang, W., Fisher, D and Liu, S. 1994. Phosphorylation of protein 4.1 in *Plasmodium falciparum*-infected human red blood cells. **BLOOD. 83**: 3339.

Clark, I.A and Rockett, K.A. 1994. T cells and malaria pathology. RESEARCH IMMUNOLOGY. 145: 437.

Cohen, S., McGregor, I.A and Carrington, S. 1961. Gamma-globulin and acquired immunity to human malaria. NATURE. 192: 733.



Cooke, B.M and Coppel, R.L. 1995. Cytoadhesion and falciparum malaria: going with the flow.

PARASITOLOGY TODAY. 11: 282.

Cowman, A.F. 1991. The P-glycoprotein homologues of Plasmodium falciparum: are they involved in chloroquine resistance? PARASITOLOGY TODAY. 7: 70.

Cowman, A.F., Galatis, D and Thompson, J. 1994. Selection of mefloquine resistance in *Plasmodium falciparum* is linked to amplification of the *pf*mdrl gene and cross-resistance to halofantrine and quinine. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCE USA. 91: 1143.

Cox, F.E.G and Turner, S.A. 1970. Antigenic relationships between the malaria parasites and piroplasms of mice as determined by the fluorescent-antibody technique. BULLETIN OF THE WORLD HEALTH ORGANIZATION. 43: 337.

Cox, F.E.G. 1978. Concomitant infections. *In*: Rodent malaria, Killick-Kendrick, R and Peters, W. Academic Press, London. 309.

Cox, F.E.G. 1988. Major animal models in malaria research: rodent. *In*: Malaria: principles and practice of malariology, Wernsdorfer, W.H and Sir McGregor, I. Volume 2. Churchill livingstone, New York. 1503.

Crandall, I and Sherman, I.W. 1991. Plasmodium falciparum (human malaria)-induced modifications in human erythrocytes band 3 protein. PARASITOLOGY. 102: 335.

Crandall, I and Sherman, I.W. 1994. Cytoadherence-related neoantigens on Plasmodium falciparum (human malaria)-infected human erythrocytes result from the exposure of normally cryptic regions of the band 3 protein. PARASITOLOGY. 108: 257.

Curtis, C.F., Lines, J.D., Ijumba, J., Callighan, A., Hill, N and Karimzad, M.A. 1987. The relative efficacy of repellents against mosquito vectors of disease. MEDICAL AND



VETERINARY ENTOMOLOGY. 1:109.

Darkin-Rattray, SJ., Gurnett, AM., Myers, R.W., Dulski, P.M., Crumley, T.M., Allocco, JJ., Cannova, C., Meinke, PT., Colletti, SL., Bednarek, MA., Singh, SB., Goetz, MA., Dombrowski, AW., Polishook, JD and Schmatz, DM. 1996. Apicidin: a novel antiprotozoal agent that inhibits parasite histone deacetylase. PROCEEDINGS OF THE NATURAL ACADEMY OF SCIENCES USA. 93: 13143.

De, D., Krogstad, F.M., Cogswell, F.B and Krogstad, D.J. 1996. Aminoquinolines that circumvent resistance in *Plasmodium falciparum in vitro*. AMERICAN SOCIETY OF TROPICAL MEDICINEE AND HYGIENE. 55: 579.

Deacon, H.E., Freese, J.A and Sharp, B.L. 1994. Drug-resistant *Plasmodium falciparum* in the eastern Transvaal. SOUTH AFRICAN MEDICAL JOURNAL. 84: 394.

De Bruyn, E.E., Steel, H.C., Van Rensburg, C.E.J and Anderson, R. 1996. The riminophenazines, clofazimine and B669, inhibit potassium transport in Gram-positive bacteria by a lysophospholipid-dependent mechanism. JOURNAL OF ANTIMICROBIAL CHEMOTHERAPY. 38: 349.

Deitsch, K.W and Wellems, T.E. 1996. Membrane modifications in erythrocytes parasitized by *Plasmodium falciparum*. MOLECULAR AND BIOCHEMICAL PARASITOLOGY, 76:

DeLuca, G.M., Donnel, M.E., Carrigan, D.J and Blackall, D.P. 1996. *Plasmodium falciparum* merozoite adhesion is mediated by sialic acid. BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, 225: 1242.

Desai, S.A., Schlesinger, P.H and Krogstad, D.J. 1991. Physiological role of carrier-mediated Ca2+ entry matches active extrusion in human erythrocytes. JOURNAL OF GENERAL PHYSIOLOGY, 98: 349.



DiMasi., J.A., Hansen, R.W., Grabowski, H.G and Lasagna, L. 1991. Cost of innovation in the pharmaceutical industry. JOURNAL OF HEALTH ECONOMICS. 10: 107.

Dluzewski, A.R., Rangachari, K., Wilson, R.J.M and Gratzer, W.B. 1983. A cytoplasmic requirement of red cells for invasion by malaria parasites. MOLECULAR AND BIOCHEMICAL PARASITOLOGY. 9. 145.

Dluzewski, A.R., Zicha, D., Dunn, G.A and Gratzer, W.B. 1995. Origins of the parasitophorous vacoule membrane of the malaria parasite: surface area of the prasitized red cell. EUROPEAN JOURNAL OF CELL BIOLOGY. 68: 446.

Dolan, S.A., Proctor, J.L., Alling, D.W., Okubo, Y., Wellems, T.E and Miller, L.H. 1994. Glycophorin B as an EBA-175 independent *Plasmodium falciparum* receptor of human erythrocytes. MOLECULAR AND BIOCHEMICAL PARASITOLOGY. 64:55.

Dorn, A., Stoffel, R., Matile, H., Bubendorf, A and Ridley, R. 1995. Malaria haemozoin/β-haematin supports haem polymerization in the absence of protein. NATURE. 374: 269.

Dorn, A., Vippagunta, S.R., Matile, H., Bubendorf, A., Vennerstrom, J.L and Ridley, R.G. 1998. A comparison and analysis of several ways to promote haematin (haem) polymerization and an assessment of its initiation *in vitro*. **BIOCHEMICAL PHARMACOLOGY.** 55: 737

Dorn, A., Vippanunta, S.R., Matile, H., Jaquet, C., Vennerstrom, J.L and Ridley, R.G. 1998. An assessment of drug-haematin binding as a mechanism for inhibition of haematin polymerization by quinoline antimalarials. BIOCHEMICAL PHARMACOLOGY. 55: 727.

Duffy, P.E and Kaslow, D.C. 1997. A novel malaria protein, Pfs28, and Pfs25 are genetically linked and synergistic as falciparum malaria transmission-blocking vaccines. **INFECTION AND IMMUNITY.** 65: 1109.



Durandt, C., Van Rensburg, C.E.J., O'Sullivan, J.F and Anderson, R. 1996. Novel riminophenazine compounds with improved anti-tumor properties. SOUTH AFRICAN JOURNAL OF SCIENCE. 92: 257.

Egan, T.J., Ross, D.C and Adams, P.A. 1994. Quinoline anti-malarial drugs inhibit spontaneous formation of β-haematin (malaria pigment). FEBS LETTERS. 352: 54.

Elford, B.C and Pinches, R.A. 1992. Inducible transport systems in the regulation of parasite growth in malaria-infected red blood cells. BIOCHEMICAL SOCIETY TRANSACTIONS. 20: 790.

Elford, B.C., Cowan, G.M and Ferguson, J.P. 1995. Parasite-regulated membrane transport and metabolic control in malaria-infected erythrocytes. BIOCHEMICAL JOURNAL. 308: 361.

Eugi, E.M and Allison, A.C. 1980. Differences in susceptibility of various mouse strains to hemoprotozoan infections: possible correlation with natural killer activity. PARASITE IMMUNOLOGY, 2:277.

Ferone, R. 1977. Folate metabolism in malaria. BULLETIN OF THE WORLD HEALTH ORGANIZATION. 55: 291.

Ferrari, V and Cutler, D.J. 1990. Uptake of chloroquine by human erythrocytes. BIOCHEMICAL PHARMACOLOGY. 39: 753.

Fitch, C.D. 1970. *Plasmodium falciparum* in Owl monkeys: drug resistance and chloroquine binding capacity. **SCIENCE. 169**: 289.

Fitch, C.D., Chevli, R., Banyal, H.S., Pfaller, M.A., Phillips, G and Krogstad, D.J. 1982. Lysis of *Plasmodium falciparum* by ferriprotoporphyrin IX and a chloroquine-ferriprotoporphyrin IX complex. ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. 21:819.



Fitch, C.D. 1983. Mode of action of antimalarial drugs. CIBA FOUNDATION SYMPOSEUM 94. p.222.

Flowers, C.R and Melmon, K.L. 1997. Clinical investigators as critical determinants in pharmaceutical innovation. NATURE MEDICINE. 3: 136.

Fogh, S., Jepsen, S and Effersoe, P. 1979. Chloroquine-resistant *Plasmodium falciparum* in Kenya. TRANSACTION OF THE ROYAL SOCIETY OF TROPICAL MEDICINE AND HYGIENE. 73: 228.

Foley, M and Tilley, L. 1995. Home improvements: malaria and the red cell. PARASITOLOGY TODAY. 11: 437.

Foote, S.J., Thompson, J.K., Cowman, A.F and Kemp, D.J. 1989. Amplification of the multidrug resistance gene in some chloroquine-resistant isolates of *P. falciparum*. CELL. 57: 921.

Foote, S.J., Kyle, D.E., Martin, R.K., Uduola, A.M.J., Forsyth, K., Kemp, D.J and Cowman, A.F. 1990. Several alleles of the multidrug resistance gene are closely linked to chloroquine resistance in *Plasmodium falciparum*. NATURE. 345: 255.

Francis, S.E., Gluzman, I.Y., Oksman, A., Banerjee, D and Goldberg, D.E. 1996. Characterization of native falcipain, an enzyme involved in *Plasmodium falciparum* hemoglobin degradation. MOLECULAR AND BIOCHEMICAL PARASITOLOGY. 83: 189.

Foote, S.J and Cowman, A.F. 1994. The mode of action and mechanism of resistance to antimalarial drugs. ACTA TROPICA. 56: 157.

Frean, J.A and Blumberg, L.H. 1993. The prevention and management of malaria.

SOUTHERN ADFRICAN JOURNAL OF EPIDEMIOLOGY AND INFECTION. 8:85.



Freese, J.A., Sharp, B.L., Ngxongo, S.M and Markus, M.B. 1988. *In vitro* confirmation of chloroquine-resistant *Plasmodium falciparum* malaria in KwaZulu. SOUTH AFRICAN MEDICAL JOURNAL. 74: 576.

Freese, J.A., Markus, M.B and Golenser, J. 1991. *In vitro* sensitivity of southern African reference isolates of *Plasmodium falciparum* to chloroquine and pyrimethamine. **BULLETIN OF THE WORLD HEALTH ORGANIZATION. 69**: 707.

Freese, J.A. 1993. Characterization of southern African strains of the malarial parasites Plasmodium falciparum. PhD thesis. University of the Witwatersrand, Johannesburg, South Africa.

Freese, J.A., Rossouw, E.J., Gouws, E and Sharp, B.L. 1993. In vitro sensitivity of sourthern African isolates of *Plasmodium falciparum* to halofantrine. ANNALS OF TROPICAL MEDICINE AND PARASITOLOGY. 87: 235.

Franzblau, S.G., White, K.E and O'Sullivan, J.F. 1989. Structure-activity relationships of tetramethylpiperidine-substituted phenazines against *Mycobacterium leprae in vitro*.

ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. 33: 2004.

Frappier, F., Jossang, A., Soudon, J., Calvo, F., Rasoanaivo, P., Ratsimamanga-Urverg, S., Saez, J., Schrevél, J. and Grellier, P. 1996. Bisbenzylisoquinolines as modulators of chloroquine resistance in *Plasmodium falciparum* and multidrug resistance in tumor cells.

ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. 40: 1476.

Frean, J. 1996. Malaria prevention and treatment in South Africa, 1996. SPECIALIST MEDICINE. 43.

Garcia, C.R.S., Dluzewski, A.R., Catalani, L.H., Burting, R., Hoyland, J and Mason, W.T. 1996. Calcium homeostasis in intraerythrocytic malaria parasites. EUROPEAN JOURNAL OF CELL BIOLOGY. 71: 409.



Gardner, J.P., Pinches, R.A., Roberts, D.J and Newbold, C.I. 1996. Variant antigens and endothelial receptor adhesion in *Plasmodium falciparum*. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCE USA. 93: 3503.

Garnham, P.C.C. 1980. Malaria in its vertebrate host. *In*: Malaria, volume 1, Kreier, J.P. Academic Press, New York. p.95 - 144.

Gassis, S and Rathod, P.K. 1996. Frequency of drug resistance in *Plasmodium falciparum*: a nonsynergistic combination of 5-fluoroorotate and atovaquone suppresses *in vitro* resistance.

ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. 40: 914.

Geary, T.G., Divo, A.A and Jensen, J.B. 1989. Stage specific actions of antimalarial drugs on *Plasmodium falciparum* in culture. AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE. 40: 240.

Gilles, H.M and Warrel, D.A. 1993. BRUCE CHWATT'S ESSENTIAL MALARIOLOGY, Edition 3, p.78. Published by Edward and Arnold.

Ginsburg, H and Stein, W.D. 1991. Kinetic modelling of chloroquine uptake by malaria-infected erythrocytes. Assessment of the factors that determine drug resistance. **BIOCHEMICAL PHARMACOLOGY. 41**: 1463.

Ginsburg, H and Krugliak, M. 1992. Quinoline-containing antimalarials - mode of action, drug resistance and its reversal. An update with unresolved puzzles. BIOCHEMICAL PHARMACOLOGY. 43:63.

Gluzman, I.Y., Francis S.E., Oksman A., Smith C.E., Duffin K.L and Goldberg D.E. 1994.

Order and specificity of the Plasmodium falciparum hemoglobin degradation pathway.

JOURNAL OF CLINICAL INVESTIGATION, 93: 1602.



Goldberg, D.E. 1994. Haemoglobin catabolism by intraerythrocytic Plasmodium.

BAILLIERE'S CLINICAL INFECTIOUS DISEASES. 1:319.

Good, M.F. 1995. Development of immunity to malaria may not be an entirely active process.

PARASITE IMMUNOLOGY. 17: 55.

Gratzer, W.B. 1981. The red cell membrane and its skeleton. BIOCHEMICAL JOURNAL. 198: 1.

Gratzer, W.B and Dluzewski, A.R. 1993. The red cell and malaria parasite invasion. SEMINARS IN HEMATOLOGY. 30: 232.

Grellier, P., Valentine, A., Millerioux, V., Schrevél, J and Rigomier, D. 1994. 3-Hydroxy-3-Methylglutaryl coenzyme A reductase inhibitors lovastatin and simvastatin inhibit in vitro developement of *Plasmodium falciparum* and *Babesia divergens* in human erythrocytes.

ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. 38: 1144.

Gumila, C., Ancelin, M., Delort, A., Jeminet, G. and Vial, H.J. 1997. Characterization of the potent *in vitro* and *in vivo* antimalarial activities of ionophore compounds. ANTIMICROBIAL AGNETS AND CHEMOTHERAPY. 41: 523.

Haldar, K. 1992. Lipid transport in *Plasmodium*. INFECTIOUS AGENTS AND DISEASE. 1:254.

Hansford, C.F. 1994. Changing patterns of malaria: sociology, ecology and drug resistance. THE LEECH. 63: 37.

Hastings, R.C., Jacobson, R.K and Trautman, J.R. 1976. Long term toxicity studies with clofazimine in leprosy. INTERNATIONAL JOURNAL OF LEPROSY. 44: 287.



Hassan, A.M., Bjorman, A., Landberg-Lindgren, A and Ashton, M. 1992. The effect of artemisinine, its derivatives and mefloquine against chloroquine-resistant strains of *Plasmodium falcipatum in vitro*. TRANSACTIONS OF THE ROYAL SOCIETY OF TROPICAL MEDICINE AND HYGIENE. 86: 365.

Hoessli, D.C., Davidson, E.A., Schwartz, R.T and Nasir-Ud-Din. 1996. Glycobiology of Plasmodium falciparum: an emerging area of research. GLYCOCONJUGATE JOURNAL. 13:1.

Holmsen, H.E., Storm, E and Day, H.J. 1972. Determination of ATP and ADP in blood platelets: a modification of the firefly luciferase assay for plasma. ANALYTICAL BIOCHEMISTRY. 46: 481.

Homeweed, C.A and Neame, K.D. 1980. Biochemistry of malarial parasites. *In*: Malaria, volume 1, Kreier, J.P. Academic Press, New York. p. 346 - 405.

Howard, R.J., Battye, F.L and Mitchell, G.F. 1979. Plasmodium-ifected blood cells analysed and sorted by flow fluorometry with deoxyribonuleic acid binding dye 33258 Hoechst. THE JOURNAL OF HISOCHEMISTRY AND CYTOCHEMISTRY. 27, 803.

Imkamp, FMJH. 1968. A treatment of corticosteroid dependent lepromatous patients in persistent erythema nodosum leprosum. LEPROSY REVIEW. 39: 119.

Jackson, P.R., Winkler, D.G., Kimzey, S.L and Fisher, F.M. 1977. Cytofluorograf detection of *Plasmodium yoelii*, *Trypanosoma gambiense* and *Trypanosoma equiperdum* by laser excited fluorescence of stained rodent blood. JOURNAL OF PARASITOLOGY. 63: 593.

Jagannath, C., Reddy, M.V., Kailasam, S., O'Sullivan, J.F and Gangadharam, R.J. 1995. Chemotherapeutic activity of clofazimine and its analogues against Mycobacterium tuberculosis: in vitro, intracellular and in vivo studies. AMERICAN JOURNAL OF RESPIRATORY AND CRITICAL CARE MEDICINE. 151: 1083.



Janse, C.J and Waters, A.P. 1995. *Plasmodium berghei*: the application of cultivation and purification techniques to molecular studies of malaria parasites. **PARASITOLOGY TODAY**. 11: 138.

Johnson, D., Günther, K., Ansorge, I., Beting, J., Kent, A., Bannister, L., Ridley, R and Lingelbach, K. 1994. Characterization of membrane proteins exported from *Plasmodium falciparum* into the host erythrocyte PARASITOLOGY. 109: 1.

Kanaani, J and Ginsburg, H. 1991. Transport of lactate in Plasmodium falciparum-infected human erythrocytes. JOURNAL OF CELLULAR PHYSIOLOGY. 149: 469.

Kaplan, B., Trau, H., Sofer, E., Feinstein, A and Schewach-Millet, M. 1992. Treatment of pyoderma gangrenosum with clofazimine. INTERNATIONAL JOURNAL OF DERMATOLOGY. 31: 591.

Karbwang, J., Na-Bangchang, K., Thanavibul, A., Bunnang, D., Chongsuphajaisiddhi, T and Harinasuta, T. 1994. Comparison of oral artesunate and quinine plus tetracycline in acute uncomplicated falciparum malaria. BULLETIN OF THE WORLD HEALTH ORGANIZATION. 72: 233.

Kaul, D.K., Roth, E.F(Jr)., Nagel, R.L., Howard, R.J and Handunatti, S.M. 1991. Rosetting of Plasmodium falciparum-infected red blood cells with uninfected red blood cells enhances microvasculature obstruction under flow conditions. BLOOD. 78: 812.

Kean, B.H. 1979. Chloroquine-resistant falciparum malaria from Africa. JOURNAL OF AMERICAN MEDICAL ASSOCIATION, 241: 395.

Kharazmi A., Chen M., Theander T and Christensen S.B. 1997. Discovery of oxygenated chalchones as novel antimalarial agents. ANNALS OF TROPICAL MEDICINE AND PARASITOLOGY. 91: S91.



Khusmith, S and Druilhe, P. 1983. Cooperation between antibodies and monocytes that inhibit in vitro proliferation of *Plasmodium falciparum*. INFECTION AND IMMUNITY. 41: 219.

Killick-Kendrick, R. 1974. Parasitic protozoa of the blood of rodents: a revision of Plasmodium berghei. PARASITOLOGY. 69: 225.

Kirk, K., Wong, H.Y., Elford, B.C., Newbold, C.I and ELLORY, C.J. 1991. Enhanced choline and Rb⁺ transport in human erythrocytes infected with the malaria parasite *Plasmodium falciparum* BIOCHEMICAL JOURNAL. 278: 521.

Kirk, K., Horner, H., Spillet, D.J and Elford, B. 1993. Glibenclamide and meglitinide block the transport of low molecular weight solutes into malaria-infected erytrhrocytes. FEBS. 323: 123.

Kirk, K., Horner, H.A., Elford, B.C and Newbold, C.I. 1994. Transport of diverse substrates into malaria-infected erythrocytes via a pathway showing functional characteristsics of a chloride channel. JOURNAL OF BIOLOGICAL CHEMISTRY. 269: 3339.

Kirk, K. and Horner, A. 1995. In search of a selective inhibitor of the induced transport of small solutes in *Plasmodium falciparum*-infected erythrocytes: effects of arylaminobenzoates. **BIOCHEMICAL JOURNAL. 311**: 761.

Kirk, K., Horner, H and Kirk, J. 1996. Glucose uptake in *Plasmodium falciparum*-infected erythrocytes is an equilibrative not an active process. MOLECULAR AND BIOCHEMICAL PARASITOLOGY. 82: 195.

Kleyman, T.R and Cragoe, E.J (Jr). 1990. Cation transport probes: the amiloride series. METHODS IN ENZYMOLOGY. 191: 739.

Knell, A.J. 1991. MALARIA: A PUBLICATION OF THE TROPICAL PROGRAMME

OF THE WELLCOME TRUST. p.12. Published by the Oxford University Press.



Kolberg, R. 1994. Finding "sustainable" ways to prevent parasitic diseases. SCIENCE. 264: 1859.

Krajewska, M.M and Anderson, R. 1993. An *in vitro* comparison of the effects of the prooxidative riminophenazines clofazimine and B669 on neutrophil phospholipase A₂ and superoxide generation. THE JOURNAL OF INFECTIOUS DISEASES. 167: 899.

Krivanek, J., Paver, W.K.A., Dossard, S and Cairns, G. 1976. Clofazimine (Lamprene) in the treatment of discoid lupus erythematosus. AUSTRALIAN JOURNAL OF DERMATOLOGY. 17: 108.

Kremsner, P.G., Radloff, P., Metzger, W., Wildling, E., Mordmuller, B., Phillips, J., Jenne, L., Nkeyi, M., Prada, J., Bienzle, U and Graniger, W. 1995. Quinine plus clindamycin improves chemotherapy of severe malaria in children. ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. 39: 1603.

Krogstad, D.J., Schlesinger. P.H and Gluzman, I.Y. 1985. Antimalarials increase vesicle pH in *Plasmodium falciparum*. JOURNAL OF CELL BIOLOGY. 101: 2302.

Krogstad, D.J., Schelinger, P.H and Herwaldt, B. 1988. Antimalarial agents: mechanisms of chloroquine resistance. ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. 32: 799.

Krogstad, D.J., Gluzman, I.Y., Herwaldt, B.L., Schlesinger, P.H and Wellems, T.E. 1992. Energy dependence of chloroquine accumulation and chloroquine efflux in *Plasmodium falciparum*. BIOCHEMICAL PHARMACOLOGY. 53: 57.

Kumaratilake, L.M and Ferrante, A. 1994. T-cell cytokines in malaria: their role in the regulation of neutrophil- and macrophage-mediated killing of *Plasmodium falciparum* asexual blood forms. RESEARCH IMMUNOLOGY. 145: 423.

Lambros, C and Vanderberg, J.P. 1979. Synchronization of Plasmodium falciparum erythgrocytic stages in culture. JOURNAL OF PARASITOLOGY. 65: 418.

Lambros, C and Notsch, J.D. 1984. Plasmodium falciparum: mefloquine resistance produced in vitro. BULLETIN OF THE WORLD HEALTH ORGANIZATION. 62: 433.

Landau, I and Boulard, Y. 1978. Life cycles and morphology. In: Rodent malaria, Killick-Kendrick, R and Peters, W. Academic Press, London. p.53 - 82.

Landau, I., Chabaud, A., Gambie, G and Ginsburg, H. 1991. Chronotherapy of malaria: an approach to malaria chemotherapy. PARASITOLOGY TODAY. 7:350.

Landow, R.K. 1988. New drugs for dermatologic diseases. CLINICAL DERMATOLOGY.
6: 575.

Langhorne, J., Morris-Jones, S., Casabo, L.G and Goodier, M. 1994. The response of gamma-delta Tcells in malaria infections: a hypothesis. RESEARCH IMMUNOLOGY. 145: 429.

Langhorne, J. 1996. Gamma-delta T cells in malaria infections. PARASITOLOGY TODAY.

12: 200.

Leach, A., Drakeley, C.J., D'Alessandro, U., Fegan, G.W., Bennet, S., Ballou, W.R., Target, A.T.G and Greenwood, B.M. 1995. A pilot safety and immunogenecity study of the malaria vaccine Spf66 in Gambian choildren. PARASITE IMMUNOLOGY. 17: 441.

Leech, J.H., Barnwell, J.W., Miller, L.H and Howard, R.J. 1984. Identification of a strain-specific malarial antigen exposed on the surface of *Plasmodium falciparum* -infected erythrocytes.

JOURNAL OF EXPERIMENTAL MEDICINE. 159: 1567.



Lingelbachi, K.R. 1993. Plasmodium falciparum: A molecular view of protein transport from the parasite into the host erythrocyte. EXPERIMENTAL PARASITOLOGY. 76: 318.

Lunel, F and Druilhe, P. 1989. Effector cells involved in nonspecific and antibody-dependent mechanisms directed against *Plasmodium falciparum* blood stages *in vitro*. **INFECTION AND IMMUNITY**. 57: 2043.

Mackey, J.P and Barnes, J. 1974. Clofazimine in the treatment of discoid lupus erythematosus.

BRITISH JOURNAL OF DERMATOLOGY. 91: 93.

Makgatho, E.M. 1996. Flow cytometric evaluation of riminophenazines as antimalarial agents.

Msc. Thesis. 35.

Makler, M.T., Lee, L.G and Recktewald, D. 1987. Thiazole orange: a new dye for Plasmodium species analysis. CYTOMETRY. 8. 568.

Martin, S.K., Uduola, A.M.J and Milhous, W.K. 1987. Reversal of chloroquine resistance in *Plasmodium falciparum* by verapamil. SCIENCE. 235: 899.

Matlola, N.M. 1996. Anti-mycobacterial activity of novel riminophenazine. Msc. Thesis. 19.

Matsumoto, Y., Perry, G., Scheibel, L.W and Aikawa, M. 1987. Role of calmodulin in *Plasmodium falciparum*: implication for erythrocyte invasion by the merozoites. EUROPEAN JOURNAL OF CELL BIOLOGY. 45:36.

McCallum-Deighton, N and Holder, A.A. 1992. The role of calcium in the invasion of human erythrocytes by *Plasmodium falciparum*. MOLECULAR AND BIOCHEMICAL PARASITOLOGY. 50:317.

McChesney, E.W and Fitch, C.W. 1984. 4-aminoquinolines. In: ANTIMALARIAL DRUGS II, eds Peters, W and Richards, W.H.G. p.3. Berlin: Spinger-Verlag.

McDougall, A.C., Horsfall, W.R., Hede, J.E and Chaplin, A.J. 1980. Splenic infarction and tissue accumulation of crystals associated with the use of clofazimine (lamprene, B663) in the treatment of pyoderma gangrenosum. BRITISH JOURNAL OF DERMATOLOGY. 102: 227.

Mercado, T and Coatney, G.R. 1951. The course of the blood induced *Plasmodium berghei* infection in white mice. JOURNAL OF PARASITOLOGY. 37: 479.

Meshnick, S.R. 1990. Chloroquine as an intercalator: a hypothesis revived. PARASITOLOGY TODAY. 6:77.

Meshnick, S.R., Yang, Y., Lima, V., Kuyper, F., Kamchonwongpaisan, S and Yuthavong, Y. 1993. Iron-dependent free radical generation from the antimalarial agent artemisinin (Qinghaosu). ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. 37: 1108.

Meshnick, S.R. 1996. Is haemozoin a target for antimalarial drugs? ANNALS OF TROPICAL MEDICINE AND PARASITOLOGY. 90: 367.

Meshnick S.R., Jefford C.W., Posner G.H and Peters W. 1996. Second-generation antimalarial peroxides. PARASITOLOGY TODAY. 12:79-81

Meshnick, S.R. 1997. Why does quinine still work after 350 years of use? PARASITOLOGY TODAY, 13: 89.

Michaëlson, G., Molin, L., Ohman, S., Gip, L., Lindström, B., Skogh, M and Trolin, I. 1976. Clofazimine: a new agent for the treatment of pyoderma gangrenosum. ARCHIVES OF DERMATOLOGY. 112: 344.

Mockenhaupt, F.P. 1995. Mefloquine resistance in *Plasmodium falciparum*.

PARASITOLOGY TODAY. 11: 248.



Mons, B., Janse, C.J., Boorsma, E.G and Van Der Kaay, H.J. 1985. Synchronized erythrocytic schizogony and gametocytogenesis of *Plasmodium berghei in vivo* and *in vitro*. PARASITOLOGY. 91: 423.

Moore, V.J. 1983. A review of side-effects experienced by patients taking clofazimine. LEPROSY REVIEW. 54: 327.

Nateghpour, M., Ward, S.A and Howells, R.E. 1993. Development of halofantrine resistance and determination of cross-resistance patterns in *Plasmodium falciparum*. ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. 37: 2337.

Noel, J and Pouyssegur, J. 1995. Hormonal regulation, pharmacology and membrane sorting of vertabrate Na+/H+ exchanger isoforms. AMERICAN JOURNAL OF PHYSIOLOGY. 268 : C283.

Olliaro, P.L and Trigg P.I. 1995. Status of antimalarial drugs under development. BULLETIN OF THE WORLD HEALTH ORGANIZATION, 73: 565.

Olliaro, P and Yuthavong, Y. 1998. Chemotherapeutic targets in Plasmodia with potential for antimalarial drug design. SOUTH AFRICAN JOURNAL OF SCIENCE. 94: 292.

Osdene, T.S., Russel, P.B and Rane, L. 1967. 2,4,7-triamino-6-ortho-substituted arylpteridines. A new series of potent antimalarial agents. JOURNAL OF MEDICINAL CHEMISTRY. 10: 431.

O'Sullivan, J.F., Conalty, M.N and Morrison, N.E. 1988. Clofazimine analogues active against a clofazimine-resistant organism. JOURNAL OF MEDICINAL CHEMISTRY, 31: 567.

Pasvol, G., Wainscoat, J.S and Weatherall, D.J. 1982. Erythrocytes deficient in glycophorin resist invasion by the malaria parasite, *Plasmodium falciparum*. NATURE. 297: 64.

Pasvol, G and Jungery, M. 1983. Glycophorins and red cell invasion by *Plasmodium* falciparum. CIBA FOUNDATION SYMPOSIUM 94: 174.

Pasvol, G., Carlson, J and Clough, B. 1993. The red cell membrane and invasion by malaria parasites. BAILLIERE'S CLINICAL HEMATOLOGY. 6:513.

Peters, W. 1970. Chemotherapy and drug resistance in malaria. Academic press, New York

Peters, W. 1975. The chemotherapy of rodent malaria, XXII: the value of drug-resistant strains of *P. berghei* in screening for blood schizonticidal activity. ANNALS OF TROPICAL MEDICINE AND PARASITOLOGY. 69: 155.

Peters, W and Howells, R.E. 1978. Chemotherapy. In: Rodent malaria, Killick-Kendrick, R and Peters, W. Academic Press, London. p.345 - 391.

Peters, W. 1980. Chemotherapy of malaria. *In*: Malaria, volume 1, Kreier, J.P. Academic press, New York. p.145 - 283.

Peters, W. 1987. Chemotherapy and drug resistance in malaria (2nd edition, Volume 1). Academic press, London. p1003.

Peters, W., Ekong, R., Robinson, B.L., Warhurst, D.C and Pan, X. 1989. Antihistaminic drugs that reverse chloroquine resistance in *Plasmodium falciparum*. THE LANCET. 1:334.

Peterson, D.A., Milhous, W.K and Wellems, T.E. 1990. Molecular basis of differential resistance to cycloguanil and pyrimethamine in *Plasmodium falciparum* malaria. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCE USA. 87:3018.

Pouvelle, B., Farley, P.J., Long., C.A and Taraschi, T.F. 1994. Taxol arrests the development of blood-stage *Plasmodium falciparum in vitro* and *Plasmodium chabaudi adami* in malaria-infected mice. JOURNAL OF CLINICAL INVESTIGATION. 94: 413.



Prasad, K.V.S., Severeni, A and Kaplan, J.G. 1987. Sodium ion influx in proliferating lymphocyte: an early component of the mitogenic signal. ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. 252: 512.

Pukrittayakamee, S., Supanarond, W., Looareesuwan, S., Vanijanonta, S and White, N.J. 1994. Quinine in severe falciparum malaria: evidence of declining efficacy in Thailand. TRANSACTIONS OF THE ROYAL SOCIETY OF TROPICAL MEDICINE AND HYGIENE, 88: 324.

Pussard, E and Verdier, F. 1994. Antimalarial 4-aminoquinolines: mode of action and pharmacokinetics. FUNDAMENTALS OF CLINICAL PHARMACOLOGY. 8:1.

Qilin, H., Weichuan, O., Jiexian, Z., Zhu, W., Kunyan, Z., Jiankang, H., Xianzheng, C., Xuejian, P., Shigang, F., Xiangfeng, W and Jian, L. 1988. Effectiveness of amodiaquine, sulfadoxine-pyrimethamine and combinations of these drugs for treating chloroquine-resistant falciparum malaria in Hainan Island, China. BULLETIN OF THE WORLD HEALTH ORGANIZATION. 66: 353.

Rane, D.S and Kinnamon, K.E. 1979. The development of a "high volume tissue schizonticidal drug screen" based upon mortality of mice inoculated with sporozoites of *Plasmodium berghei*.

AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE. 28: 937.

Raynes, K., Foley, M., Tilley, L and Deady, L.W. 1996. Novel bisquinoline antimalarials. BIOCHEMICAL PHARMACOLOGY. 52:551.

Reddy, V.M., Nadadhur, G., Daneluzzi, D., O'Sullivan, J.F and Gangadharam, P.R.J. 1996. Antituberculosis activities of clofazimine and its new analogues B4154 and B4157. ANTIMICROBIAL AGENTS AND CHEMOTHERAPY, 40: 633.

Richards, W.H.G. 1984. In vitro culture techniques. In: Handbook of experimental pharmacology, antimalarial drugs 1, Peters, W and Richards, W.H.G. Springer-Verlag, New



York. p.83 - 95.

Ridley, R.G., Hofheinz, W., Matile, H., Jaquet, C., Dorn, A., Masciadri, R., Jolidon, S., Richter, W.F., Guenzi, A., Girometta, M., Urwyler, H., Huber, W., Thaithong, S and Peters, W. 1996. 4-Aminoquinoline analogs of chloroquine with shortened side chains retain activity against chloroquine-resistant *Plasmodium falciparum*. ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. 40: 1846.

Ridley, R. 1997. Haemoglobin degradation and haem polymerization as antimalarial drug targets.

JOURNAL OF PHARMACY AND PHARMACOLOGY (Supplement 2). 49: 43.

Roberts, D.J., Craig., A.G., Berendt, A.R., Pinches, R., Nash, G., Marsh, K and Newbold, C.I. 1992. Rapid switching to multiple antigenic and adhesive phenotypes in malaria. NATURE. 357: 689.

Roberts, D.J., Biggs, B., Brown, G and Newbold, C.I. 1993. Protection, pathogenesis and phenotypic plasticity in *Plasmodium falciparum* malaria. PARASITOLOGY TODAY, 9: 281.

Rogerson, S.J and Brown, G.V. 1997. Chondroitin sulphate A as an adherence receptor for *Plasmodium falciparum*-infeceted erythrocytes. **PARASITOLOGY TODAY. 13**: 70.

Rosenthal, P.J and Meschnick, S.R. 1996. Hemoglobin catabolism and iron utilization by malaria parasites. MOLECULAR AND BIOCHEMICAL PARASITOLOGY. 83:131.

Roth, E (Jr.). 1990. *Plasmodium falciparum* carbohydrate metabolism: a connection between host cell and parasite. **BLOOD CELLS. 16**: 453.

Rudin, W., Quesniaux, V., Favre, N and Bordmann, G. 1997. Malaria toxins from P. chabaudi chabaudi AS and P. berghei ANKA cause dyserythropoiesis in C57BL/6 mice. PARASITOLOGY. 115: 467.

Sam-Yellowe, T.Y., Shio, H and Perkins, M.E. 1988. Secretion of *Plasmodium falciparum* rhoptry protein into the plasma membrane of host erythrocytes. JOURNAL OF CELL BIOLOGY. 106: 1057.

Sanchez, C.P., Wünsch, S and Lanzer, M. 1997. Identification of a chloroquine importer in Plasmodium falciparum. THE JOURNAL OF BIOLOGICAL CHEMISTRY. 272: 2652.

Sanchez-Delgado, R.A., Navarro, M., Pérez, H. And Urbina, J.A. 1996. Towards a novel metal-based chemotherapy against tropical diseases. 2. Synthesis and antimalarial activity *in vitro* and *in vivo* of new ruthenium- and rhodium-chloroquine-complexes. JOURNAL OF MEDICINAL CHEMISTRY, 39: 1095.

Savage., J.E. 1988. The pro-oxidative effects of clofazimine and its analogues on human neutrophils. Msc. Thesis. 20.

Schaad-Lanyi, Z., Dieterle, W., Dubois, J.P., Theobald, W and Vischer, W. 1987. Pharmacokinetics of clofazimine in healthy volunteers. INTERNATIONAL JOURNAL OF LEPROSY AND OTHER MYCOBACTERIAL DISEASES. 55: 9.

Schapira, A., Beales, P.F and Halloran, M.E. 1993. Malaria: living with drug resistance. PARASITOLOGY TODAY. 9: 168.

Schelinger, P.H., Krogstad, D.J and Herwaldt, B.L. 1988. Antimalarial agents: mechanisms of action. ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. 32: 793.

Scheller, L.F and Azad, A.F. 1995. Maintenance of protective immunity against malaria by persistent hepatic parasite derived from irradiated sporozoites. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES USA. 92: 4066.

Scholander, C., Treutiger, C.J., Hulyenby, K and Wahlgren, M. 1996. Novel fibrillar structure confers adhesive property to malaria-infected eythrocytes. NATURE MEDICINE. 2

. 204.



Schrevél, J., Millerioux V., Sinou V., Frappier F., Santus R and Grellier P. 1996. New trends in chemotherapy on human and animal blood parasites. PARASITOLOGY RERSEARCH. 82 283.

Schulze, D.L.C., Makgatho, E.M., Coetzer, T.L., Louw, A.I., Van Rensburg, C.E.J and Visser, L. 1997. Development and application of a modified flow cytometric procedure for rapid in vitro quantification of malaria parasitemia. SOUTH AFRICAN JOURNAL OF SCIENCES. 93 : 156.

Sharp, B and Freese, J. 1995. Drug resistance in malaria. CONTINUING MEDICAL EDUCATION (CME). 13: 883.

Sheagren, J.N. 1968. Antimalarial effect of B663 in mice infected with *Plasmodium berghei*. JOURNAL OF PARASITOLOGY. 54: 1250.

Sherman, I.W. 1979. Biochemistry of *Plasmodium* (malarial parasites). MICROBIOLOGICAL REVIEWS. 43: 453.

Sherman, I.W. 1984. Metabolism. *In*: Handbook of experimental pharmacology, antimalarial drugs 1, **Peters, W and Richards, W.G.H.** Springer-Verlag, New York. p.31 - 70.

Sherman, I.W., Crandall, I.E., Guthrie, N and Land, K.M. 1995. The sticky secrets of sequestration. PARASITOLOGY TODAY, 11: 378.

Sherman, I.W., Prudhomme, J and Tait, J.F. 1997. Altered membrane phospholipid asymmetry in *Plasmodium falciparum*-infected erythrocytes. **PARASITOLOGY TODAY. 13**: 242.



Silamut, K and White, N.J. 1993. Relation of the stage of parasite development in the peripheral blood to prognosis in severe falciparum malaria. TRANSACTIONS OF THE ROYAL SOCIETY OF TROPICAL MEDICINE AND HYGIENE. 87: 436.

Sim, B.K.L. 1995. EBA-175: an erythrocyte-binding ligand of *Plasmodium falciparum*.

PARASITOLOGY TODAY. 11: 213

Sim, B.K.L., Chitnis, C.E., Wasniowska, K., Hadley, T.J and Miller, L.H. 1994. Receptor and ligand domains for invasion of erythricytes by Plasmodium falciparum. SCIENCE. 264: 1941.

Simoes, A.P., Roelofsen, B and Op den Kamp, J.A.F. 1992. Incorporation of free fatty acids can explain alterations in the molecular species composition of phosphatidylcholine and phosphatidylethanolamine in human erythrocytes as induced by *Plasmodium falciparum*. CELL BIOLOGY INTERNATIONAL REPORTS. 16: 533.

Sinden, RE. 1997. Antimalarial transmission-blocking vaccines. ANNALS OF TROPICAL MEDICINE AND PARASITOLOGY. 91; S69.

Sinou, V., Grellier, P. and Schrevél, J. 1996. In vitro and in vivo inhibition of erythrocytic developement of malaria parasites by docetaxel. ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. 40: 358.

Sirawaporn, W., Sathikul, T., Sirawaporn, R., Yuthavong., Y and Santi, D.V. 1997. Antifolate resistant mutants of *Plasmodium falciparum* dihydrofolate reductase. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCE USA. 94: 1124.

Slater, A.F.G., Swiggard, W.J., Orton, B.R., Flitter, W.D., Goldberg, D.E., Cerami, A and Henderson, G.B. 1991. An iron-carboxylate bond links the heme units of malaria pigment. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCE USA. 88: 325.



Slater, A.F and Cerami, A. 1992. Inhibition by chloroquine of a novel haem polymerase enzyme activity in malaria trophozoites. NATURE, 355: 167.

Slater, A.F.G. 1993. Chloroquine: mechanisms of drug action and resistance in *Plasmodium* falciparum. PHARMACEUTICAL THERAPEUTICS. 57: 203.

Soni, P.N., Sharp, B.L., Ngxongo, S and Gathiram, V. 1993. Morbidity from falciparum malaria in Natal/KwaZulu. SOUTH AFRICAN MEDICAL JOURNAL. 83: 110.

Srivastava I.K., Rottenberg H and Vaidya A.B. 1997. Atovaquone, a broad spectrum antiparasitic drug, collapses mitochondrial membrane potential in a malaria parasite. JOURNAL OF BIOLOGICAL CHEMISTRY. 272: 3961-3966.

Strickland, G.T., Khaliq, A.A., Sarwar, M., Hassan, H., Pervex, M and Fox, E. 1986. Effects of Fansidar® on chloroquine-resistant *Plasmodium falciparum*. AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE. 35: 61.

Sullivan, D., Gluzman, I and Goldberg, D. 1996. Plasmodium hemozoin formation mediated by histidine-rich protein. Science. 271: 219.

Tanabe, E. and Cohen, F.E. 1990. Computer-assisted drug discovery - a review. GENE. 137: 127.

Tanner, M.J.A. 1993. The major intergral proteins of the human red cell. BAILLIÈRE'S CLINICAL HAEMATOLOGY. 6:333.

Ter Kuile, F., White, N.J., Holloway, P., Pasvol, G and Krishna, S. 1993. *Plasmodium falciparum: in vitro* studies of the pharmacodynamic properties of drugs used for the treatment of severe malaria. **EXPERIMENTAL PARASITOLOGY. 76**: 85.

Thaithong, S., Suebsaeng, L., Rooney, W and Beale, G.H. 1988. Evidence of increased

chloroquine sensitivity in Thai isolates of *Plasmodium falciparum*. TRANSACTIONS OF THE ROYAL SOCIETY OF TROPICAL MEDICINE AND HYGIENE. 82: 37.

Trager, W and Jensen, J,B. 1976. Human malaria parasites in continous culture. SCIENCE. 193: 673.

Udomsangpetch, R., Webster, H.K., Pattanapanyasat, K., Pitchayangkul, S and Thaithong, S. 1992. Cytoadherence characteristics of rosette-forming *Plasmodium falciparum*. INFECTION AND IMMUNITY. 60: 4483.

Udomsangpetch, R., Pipitaporn, B., Krishna, B., Angus, B., Pukrittayakamee, S., Bates, I., Suputtamongol, Y., Kyle, D.E and White, N.J. 1996. Antimalarial drugs reduce cytoadherence and rosetting of *Plasmodium falciparum*. THE JOURNAL OF INFECTIOUS DISEASES. 173: 691.

Van Heyde, H.C., Elloso, M., Roopenian, D.C., Manning, D.D and Weidanz, W.P. 1994. Expansion of the CD4-,CD8- gamma/delta T cells subset in the spleens of mice during non-lethal blood-stage malaria. EUROPEAN JOURNAL OF IMMUNOLOGY. 23: 1846.

Van der Heyden, S., Gheuens, E., De Bruijn, E., Van Oosterom, A and Maes, R. 1995. P-glycoprotein: clinical significance and methods of analysis. CRITICAL REVIEWS IN CLINICAL ALABORATORY SCIENCES. 32: 221.

Van Rensburg, C.E.J., Joone, G.K., O'Sullivan, J.F and Anderson, R. 1992. Antimicrobial activities of clofazimine and B669 are mediated by lysophospholipids. ANTICROBIAL AGENTS AND CHEMOTHERAPY. 36: 2729.

Van Rensburg, C.E.J, Durandt, C., Garlinski, P.J and O'Sullivan, J.F. 1993. Evaluation of the antineoplastic activities of the riminophenazine agents clofazimine and B669 in tumor-bearing rats and mice. INTERNATIONAL JOURNAL OF ONCOLOGY. 3: 1013.



Van Rensburg, C.E.J., Van Standen, A.M and Anderson, R. 1993. The riminophenazine agents clofazimine and B669 inhibit the proliferation of cancer cell lines *in vitro* by phospholipaseA₂-mediated oxidative and nonoxidative mechanisms. CANCER RESEARCH. 53:318.

Van Rensburg, C.E.J., Anderson, R., Myer, S.M., Joone, G.K and O'Sullivan, J.F. 1994. The riminophenazine agents clofazimine and B669 reverseacquired multidrug resistance in a human lung cancer cell line. CANCER LETTERS. 85: 59.

Van Rensburg, CEJ., Theron, A.J and Chasen, M. 1996. The riminophenazine agents clofazimine and B669 inhibit the proliferation of intrinsically multidrug resistant carcinima cell lines. ONCOLOGY REPORTS. 3 103.

Van Rensburg, C.E.J., Anderson, R and O'Sullivan, J.F. 1997. Riminophenazine compounds pharmacology and anti-neoplastic potential. CRITICAL REVIEWS IN ONCOLOGY/HEMATOLOGY. 25:55.

Van Zon, A.A.J.C and Eling, W.M.C. 1980. Depressed malarial immunity in pregnant mice. INFECTION AND IMMUNITY. 28: 630.

Vial., H.J., Thuet, M.J., Ancelin, M.L., Philippot, J.R and Chavis, C. 1984. Phospholipid metabolism as a new target for malaria chemotherapy. Mechanism of action of D-2-amino-1-butanol. BIOCHEMICAL PHARMACOLOGY. 2761.

Vial, H. 1996. Recent developments and rationale towards new strategies for malarial chemotherapy. PARASITE. 3:3.

Ward, G.E., Chitnis, C.E and Miller, L.H. 1994(a). The invasion of erythrocytes by malarial merozoites. BAILLIERE'S CLINICAL INFECTIOUS DISEASES. 1: 155.



Ward, G.E., Fujioka, H., Aikawa, M and Miller, L.H. 1994(b). Staurosporine inhibits invasion of erythrocytes by malarial merozoites. EXPERIMENTAL PARASITOLOGY. 79: 480.

Ward, S.A., Bray, P.G and Munthin, M. 1995. Current views on the mechanims of resistance to quinoline-containg drugs in *Plasmodium falciparum*. ANNALS OF TROPICAL MEDICINE AND PARASITOLOGY. 89: 121.

Warsame., M., Wernsdorfer, W.H., Payne, D and Bjorkman, A. 1991. Positive relationship between the response of *Plasmoium falciparum* to chloroquine and pyronaridine. TRANSACTIONS OF THE ROYAL SOCIETY OF TROPICA MEDICINE AND HYGIENE. 85: 570.

Warsame, M., Wernsdorfer, W.H and Bjorkman, A. 1992. Lack of the effect of desipramine on the response to chloroquine of pataients with chloroquine-resistant malaria. TRANSACTION OF THE ROYAL SOCIETY OF TROPICAL MEDICINE AND HYGIENE. 86: 235.

Watkins, W.M and Mosobo, M. 1993. Treatment of Plasmodium falciparum with PSD; selective pressure for resistance is a function of long elimination half life. TRANSACTIONS OF THE ROYAL SOCIETY OF TROPICAL MEDICINE AND HYGIENE. 87: 75.

Watt, G., Long, G.W., Grogl, M and Martin, S.K. 1990. Reversal of drug-resistant falciparum malaria by calcium antagonists: potential for cytotoxicity. TRANSACTIONS OF THE ROYAL SOCIETY OF TROPICAL MEDICINE AND HYGIENE. 84: 187.

Webb, S.E., Fowler, R.E., O'Shaughnessy, C., Pinder, J.C., Dluzewski, A.R., Gratzer, W.b., Bannister, L.H and Mitchell, G.M. 1996. Contractile protein system in the asexual stages of the malaria parasite *Plasmodium falciparum*. PARASITOLOGY. 112: 451.

Wellems, T.E., Panton, L.J., Gluzman, I.Y., do Rosario, E.V., Gwadz, R.W., Walker-Jonah, A and Krogstad, J. 1990. Chloroquine resistance not linked to mdr-like genes in a *Plasmodium*



falciparum cross. NATURE. 345 : 253.

Wellems, T.E., Walker-Jonah, A and Panton, L.J. 1991. Genetic mapping of the chloroquine-resistance locus on *Plasmodium falciparum* chromosome 7. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA. 88: 3382.

Wernsdorfer, W.H. 1991. The development and spread of drug-resistant malaria.

PARASITOLOGY TODAY. 7: 297.

Wernsdorfer, W.H and Payne, D. 1991. The dynamics of drug resistance in Plasmodium falciparum. PHARMACOLOGY AND THERAPEUTICS. 50: 95.

Whalfield, A.W. 1974. UV-method with L-Lactate and NAD. In: METHODS IN ENZYMATIC ANALYSIS I. Bergmeyer H.V. p.126. Berlin: Verlag-Chemie.

Whaun, M.J., Ritterhaus, C and Ip, S.H.C. 1983. Rapid identification and detection of parasitized human red cells by automated flow cytometry. CYTOMETRY. 14. 117.

White, N.J. 1987. Clinical pharmacokinetics of the antimalarial drugs. CLINICAL PHARMACOKINETICS, 10: 187.

White, N.J and Krishna, S. 1989. Treatment of malaria; some considerations and limitations of the current methods of assessment. TRANSACTIONS OF THE ROYAL SOCIETY OF TROPICAL MEDICINE AND HYGIENE. 83: 767.

White, N.J and Ho, M. 1992. Pathophysiology of malaria. ADVANCES IN PARASITOLOGY. 31: 84.

White, N.J. 1992. Antimalarial pharmacokinetics and treatment regimens. EUROPEAN JOURNAL OF CLINICAL PHARMACOLOGY. 34:1.



White, N.J., Chapman, D and Watt, G. 1992. The effects of multiplication and sychronicity on the vascular distribution of parasites in falciparum malaria. TRANSACTIONS OF THE ROYAL SOCIETY OF TROPICAL MEDICINE AND HYGIENE. 86: 590.

White, N.J and Olliaro, P.L. 1996. Strategies for the prevention of antimalarial drug resistance rationale for combination chemotherapy for malaria. PARASITOLOGY TODAY. 12:399.

White, N.J. 1997. Assessment of the pharmacodynamic properties of antimalarial drugs in vivo.

ANTIMICROBIAL AGENTS AND CHEMOTHERAPY, 41: 1413.

Who. 1990. Severe and complicated malaria. TRANSACTIONS OF THE ROYAL SOCIETY OF TROPICAL MEDICINE AND HYGIENE (Supplement 2). 84:1.

Winter, R.W., Ignatushchenko, M., Ogundahusni, A.T.O., Cornell, K.A., Oduola, A.M.J., Hinrichs, D.J and Riscoe, M.K. 1997. Potentiation of an antimalarial oxidant. ANTIMICROBIAL AGENTS AND CHEMOTHERAPY. 41: 1449.

Wilson, R.J.M. 1990. Biochemistry of red cell invasion. BLOOD CELLS. 16: 237.

Wyatt, C.R., Goff, W and Davis, W.C. 1991. A flow cytometric method for assessing viability of intraerythrocytic hemoparasites. JOURNAL OF IMMUNOLOGICAL METHODS. 140. 23.

Wünsch, S., Sanchez, C.P., Gekle, M., Große-Wortmann, L., Wiesner, J and Lanzer, M. 1998. Differential stimulation of the Na+/H+ exchanger determines chloroquine uptake in *Plasmodium falciparum*. THE JOURNAL OF CELL BIOLOGY. 140: 335.

Yawalkar, S.S and Vischer, W. 1978. Lamprene (clofazimine) in leprosy. LEPROSY REVIEW. 50: 135.



Yeo, A.E.T., Edstein, M.D., Shanks, G.D and Riechman, K.H. 1997. Potentiation of the antimalarial activity of atovaquone by doxycycline against *Plasmodium falciparum in vitro*.

Zeis, M.B., Anderson, R. And O'Sullivan, J.F. 1987. The effect of ten phenazine -derivatives in comparison to clofazimine on the production of prostaglandin E₂ by polymorphonuclear leucocytes. LEPROSY REVIEW. 58: 383.

Zhang, Y., Asante, K.S and Jung, A. 1986. Stage-dependent inhibition of chloroquine on Plasmodium falciparum in vitro. JOURNAL OF PARASITOLOGY. 72: 830.

Zuzi, L., Mancheng, Z., Yuguang, W., Binglin, Z., Guangyu, L and Hui, H. 1989. Trial of deltamethrin impregnated bed nets for the control of malaria transmitted by *Anopheles sinesis* and *Anopheles anthropophagus*. AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE. 40: 356.