

## REFERENCES

- Anantharaman V, Aravind L. The GOLD domain, a novel protein module involved in Golgi function and secretion. *Genome Biol.* 3: research 2003.
- Anderson RM, May RM, Gupta S. Non-linear phenomena in host-parasite interactions. *Parasitology* 1989; 99: 59-79.
- Arrigo A. Small proteins: chaperones that act as regulators of intracellular redox state and programmed cell death. *Biol. Chem* 1998; 379: 19-26.
- Aravind L, Iyer LM, Wellems TE, Miller LH. Plasmodium biology: genomic gleanings. *Cell* 2003; 115: 771–85.
- Bannister LH, Hopkins JM, Fowler RE, Krishna S, Mitchell GH, brief illustrated guide to the ultrastructure of *P. falciparum* asexual blood stages. *Parasitol Today* 2000; 16: 427–33.
- Biswas A, Sharma S. Enhanced expression of *P.falciparum* heat shock protein Pfhsp 70-1 at higher temperatures and parasites survival. *FEMS Microbiol Lett* 1994; 124: 425-9.
- Bruce C, Black RH, Canfield CJ, *et al.* Chemotherapy of Malaria. World Health Organization, Geneva. W. H. 1986; 2nd Ed: 120.
- Brandts CH, Ndjavé M, Graninger W, Kremsner PG. Effect of paracetamol on parasite clearance time in *Plasmodium falciparum* malaria. *Lancet* 1997; 350: 704-09.
- Chen QV, Fernandez A, Sundstrom M, *et al.* Developmental selection of var gene expression in *Plasmodium falciparum*. *Nature* 1998; 394: 392–95.
- Choi KB, Morishige T, Sato F. *Phytochemistry* 2001; 56, 649–55.
- Clark IA. Cell-mediated immunity in protection and pathology of malaria. *Parasitol Today* 1987; 3: 300-05.
- Deponte M, Becker K. Plasmodium falciparum do killers commit suicide. *Trends Parasitol* 2004; 20: 165–69.
- Dessens, JT, Kiamos SI, Mendoza J, Mahairaki V, *et al.* SOAP, a novel malaria ookinete protein involved in mosquito midgut invasion and oocyst development. *Mol Microbiol* 2003; 49: 319–329.

- Dzikowski R, Frank M, Deitsch K. Mutually exclusive expression of virulence genes by malaria parasites is regulated independently of antigen production. *PLoS Pathog* 2006; 2: e22.
- Fang J, McCutchan FT. Thermoregulation in parasite's life cycle. *Nature* 2002 ; 418 :742.
- Freitas LH., Hernandez JR, Ralph SA, *et al.* Telomeric heterochromatin propagation and histone acetylation control mutually exclusive expression of antigenic variation genes in malaria parasites. *Cell* 2005; 121: 25–36.
- Genton B, Acremont VD. Clinical features of malaria in returning travelers and migrants. In *Travelers malaria*. BC Decker 2001; 3: 371-92.
- Gowrishankar B, Varsha S, Pavithra T, *et al.* Heat shock protein 90 function is essential for *Plasmodium falciparum* growth in human erythrocytes. *The journal of biological chemistry* 2003; 278: 18336-45.
- Grau GE, Taylor TE, Molyneux ME, *et al.* Tumor necrosis factor and disease severity in children with *falciparum* malaria. *N Engl J Med* 1989; 320: 1586-91.
- Harinasuta T, Migasen S, Bungnag D. Chloroquine resistance in Thailand. *Unesco 1<sup>st</sup> Reginal Symp on Sci Knowledge of Trop Parasitol Mdica* 1962; 3: 72.
- Hartweck LM, Scott CL, Olszewski NE. Two O-linked N-acetylglucosamine transferase genes of *Arabidopsis thaliana* have overlapping functions necessary for gamete and seed development. *Genetics. Parasitol* 2002; 161: 1279–91.
- Hiller NL, Bhattacharjee S, Ooij J, *et al.* A host-targeting signal in virulence proteins reveals a secretome in malarial infection. *Science* 2004; 306: 1934–37.
- Hisashi F, Masamishi A. Structure and life cycle malaria immunology. *Chem Immunol* 2002; 80: 1-26.
- Horrocks P, Newbold CI. Intraerythrocytic polyubiquitin expression in *Plasmodium falciparum* is subjected to developmental and heatshock control. *Mol. Biochem. Parasitol* 2000; 105: 115–25.
- Hyde JE. Mechanisms of resistance of *Plasmodium falciparum* to antimalarial drugs. *Micro and Inf* 2002; 4: 165-74.

- Ilya S, David G. Novel regulation factor of HSF-1 activation: facts and perspectives regarding their involvement in the age-associated attenuation of heat shock response. *Mechanism of aging and development* 2004; 125: 767-75.
- Ishino TY, Chinzei M, Yuda A. Plasmodium sporozoite protein with a membrane attack complex domain is required for breaching the liver sinusoidal cell layer prior to hepatocyte infection. *Cell Microbiol* 2005; 7:199–208.
- Joshi B, Biswas S, Sharama Y. Effects of heat-shock on *Plasmodium falciparum* viability growth and expression of the heat-shock *PfHSP 70-1* gene. *FEBS Lett* 1992; 12(1): 91-94.
- Kumar N, Zheng H. Nucleotide sequence of a *Plasmodium falciparum* stress protein with similarity to mammalian 78Kd glucose-regulated protein. *Mol. Biochem Parasitology* 1992; 56: 352-356.
- Kumar N, Zheng H. Evidence for epitope-specific thymus-independent response against a repeat sequence in a protein antigen. *Immunology* 1998 ; 94: 28-34.
- Kwiatkowski D, Cannon JG, Manogue, KR, *et al.* Tumor necrosis factor production in *Falciparum malaria* and its association with schizont rupture. *Clin Exp Immunol* 1989; 77: 361-66.
- Kwiatkowski D. Febrile temperatures can synchronize the growth of *Plasmodium falciparum in vitro*. *J Exp Med* 1989; 169: 357–61.
- Kwiatkowski D. Tumour necrosis factor, fever and fatality in *falciparum malaria*. *Immunol Lett* 1990; 25: 213-16.
- Kwiatkowski D, Hill AV, Sambou S, *et al.* TNF concentration in fatal cerebral, non-fatal cerebral, and uncomplicated *Plasmodium falciparum malaria*. *Lancet* 1990; 336 : 1201-04.
- Kwiatkowski D, Nowak M. Periodic and chaotic host-parasite interactions in human malaria. *PNAS* 1991; 88: 5111-5113.
- Kadota KT, Ishino T, Matsuyama Y, *et al.* Essential role of membrane-attack protein in malarial transmission to mosquito host. *PNAS* 2004; 101: 16310–15.
- Kaiser KN, Camargo I, Coppens J, *et al.* A member of a conserved Plasmodium protein family with membrane-attack complex/perforin (MACPF)-like domains localizes to the micronemes of sporozoites. *Mol Biochem Parasitol* 2004; 133: 15–26.

- Long HY, Lell B, Dietz K, Kremsner PG. *Plasmodium falciparum*: *in vitro* growth inhibition by febrile temperature. *Parasitol Res* 2001; 87: 553-55.
- Luders J, Demand J, Schonfolder S, *et al.* Cofactor-induced Modulation of the functional specificity of the molecular chaperone Hsp 70. *Biol Chem* 1998; 379: 1217-26.
- Matesanz FM, Tellez M, Alcina A. The *Plasmodium falciparum* fatty acyl-CoA synthetase family (*PfACS*) and differential stage-specific expression in infected erythrocytes. *Mol Biochem Parasitol* 2003; 126: 109-12.
- Marques CW, Guo P, Pereira A, *et al.* The triage of damaged proteins: degradation by the ubiquitin- proteasome pathway or repair by molecular chaperones. *FASEBJ* 2006; 20: 741-743.
- Marti MR, Good T, Rug ME, *et al.* Targeting malaria virulence and remodeling proteins to the host erythrocyte. *Science* 2004; 306: 1930-33.
- Mendis KN, Naotunne TD, Karunaweera ND, *et al.* Anti-parasite effects of cytokines in malaria. *Immunol Lett* 1990; 25: 217-20.
- Morimoto RI, Kline MP, Bimston DN, *et al.* The heat- shock response: regulation and function of heat-shock proteins and molecular chaperones. In *Essays in Biochemistry* 1997; 32 : 17-27.
- Morishige T, Tsujita T, Yamada Y, *et al.* *J Biol Chem* 2000; 275: 23398-405.
- Multhoff G, Botzler C, Issels R. The role of heat shock proteins in the stimulation on immune response. *Biol Chem* 1998 ; 379: 295-300.
- Murphy GS, Oldfield EC. III: *Falciparum* malaria. *Infect Dis Clin North Am* 1996; 10 : 747- 75.
- Nadira D, Karunaweera GE, Graut P, *et al.* Dynamics of fever and serum levels of tumor necrosis factor are closely associated during clinical paroxysms in *Plasmodium vivax* malaria. *PNAS* 1992; 89: 3200-03.
- Ntumngia FB, Bouyou-Akotet MK, Uhlemann AC, *et al.* Characterisation of a tryptophan-rich *Plasmodium falciparum* antigen associated with merozoites. *Mol. Biochem. Parasitol* 2004; 137: 349-353.
- Nyakeriga AM, Perlmann H, Hagstedt M, *et al.* Drug induced death of the asexual blood stages of *Plasmodium falciparum* occurs without typical signs of apoptosis. *Microbes Infect* 2006; 8: 1560-68.

- Oakley MS, Kumar S, Anantharaman V, *et al.* Molecular factors and biochemical pathways Induced by febrile temperature in intraerythrocytic *Plasmodium falciparum* parasites. *Infect and immunol* 2007; 75: 2012–25.
- Pavithra SR, Gowrishankar B, Omana J, *et al.* Recurrent fever promotes *Plasmodium falciparum* development in human Erythrocytes. *The J of Biol Chem* 2004; 272: 2652-58.
- Pickard AL, Wongsrichanalai C, Purfield A, and *et al.* Resistance to antimalarials in Southeast Asia and genetic polymorphisms in *pfmdr1*. *Antimicro Agents Chem* 2003; 135: 2418-23.
- Ralph SA, Scherf A. The epigenetic control of antigenic variation in *Plasmodium falciparum*. *Curr Opin Microbiol* 2005; 8: 434–40.
- Saha SA, Nicholson A, Kapler GM. Cloning and biochemical analysis of the tetrahymena origin binding protein TIF1: competitive DNA binding *in vitro* and *in vivo* to critical rDNA replication determinants. *J Biol Chem* 2001; 276: 45417–26.
- Sanchez CP, Wunsch S, Lanzer M. Identification of Chloroquine Importer in *Plasmodium falciparum*. *J Biol Chem* 1997; 272: 2625-58.
- Sargent TJ, Marti M, Caler E, *et al.* Lineage-specific expansion of proteins exported to erythrocytes in malaria parasites. *Genome Biol* 2006; 7: 2-12.
- Sciara GS, Kendrew G, Miele AE, *et al.* The structure of ActVAOrf6, a novel type of monooxygenase involved in actinorhodin biosynthesis. *EMBO J* 2003; 22: 205–15.
- Schubert UL, Anton C, Gibbs J, *et al.* Rapid degradation of a large fraction of newly synthesized proteins by proteasomes. *Nature* 2000; 404: 770–74.
- Sharma Y. Structure and possible function of heat-shock protein in falciparum malaria. *Comp Biochem Physiol* 1992; 102: 4337-44.
- Smith DB, Johnson KS. Single-step purification of polypeptides expressed in *Escherichia coli* as fusions with glutathione-S-transferase. *Gene American Soc Pharmacology* 1988; 67: 31-40.
- Smith D, Whitesell L, Katsanis.E. Molecular chaperones in biology and prospects for pharmacological intervention. *American Soci. Pharmacology* 1998; 50: 493-500.

- Soual A. Models for the in-host dynamics of malaria revisited: errors in some basic models lead to large over-estimates of growth rates. *Parasitol* 1998; 117: 405-7.
- Stadler, R., and Zenk, M. H. *J Biol Chem* 1993; 268: 823–31.
- Templeton TJ, Iyer LM, Anantharaman V, *et al.* Comparative analysis of apicomplexa and genomic diversity in eukaryotes. *Genome Res* 2004; 14; 1686-95
- Trampuz A, Jereb M, Muzlovic I, Prabhu RM. Clinical review: Severe malaria. *Critical Care* 2003; 7: 315-23.
- Udomsangpetch R, Pipitaporn B, Silamut K, *et al.* Febrile temperatures induce cytoadherence of ring-stage *Plasmodium falciparum*-infected erythrocytes. *PNAS* 2002; 99: 11825–29.
- White NJ, Malaria. In: *Manson's Tropical Diseases*. J Phil PA. 2003: 1205-95.
- White NJ. The management of severe falciparum malaria. *Am J Respir Crit Care Med*. 2003; 167(5): 673-4.
- Whitley D, Goldberg S, Jordan N. Heat shock proteins: A review of the molecular chaperone. *J. Vasc Surg* 1998; 29: 748-51.
- Winter GS, Kawai M, Haeggstrom O, *et al.* SURFIN is a polymorphic antigen expressed on *Plasmodium falciparum* merozoites and infected erythrocytes. *J Exp Med* 2005; 201: 1853–63.
- Wilson WA, Roach PJ. Nutrient-regulated protein kinases in budding yeast. *Cell* 2002; 111: 155–8.
- Vinetz JM, Valenzuela JG, Specht CA, *et al.* Chitinases of the avian malaria parasite *Plasmodium gallinaceum*, a class of enzymes necessary for parasite invasion of the mosquito midgut. *J Biol Chem* 2000; 275: 10331–41.