

Anja Ramstedt Jensen  
Professor, Professor

TARGETS team

Parasitology

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**Postadresse:**

Blegdamsvej 3B, 2200 København N, 07 Bygning 7  
07-11-TR4

**Postadresse:**

Nørre Allé 14  
2200

København N

**E-mail:** atrj@sund.ku.dk

**Mobil:** +4524600892

**Telefon:** +4535327682



## Kort præsentation

As head of the TARGETS team my focus is on a family of "sticky" proteins known as the *Plasmodium falciparum* erythrocyte membrane protein 1 (PfEMP1). *P. falciparum* is the most pathogenic malaria parasite and a major cause of morbidity and mortality among children in sub-Saharan Africa. The virulence of *P. falciparum* is linked to its expression of PfEMP1 on the surface of infected erythrocytes; these proteins enable the parasites to "stick" to capillaries of the host and are involved in pathogenesis as well of development of immunity to malaria. We have identified a subset of PfEMP1 proteins of importance in severe malaria and are currently investigating their involvement in the molecular mechanisms elicited in cerebral malaria. Read more about our latest discovery at the Advanced Science web site.

## Publikationer

### **PfEMP1 and var genes – Still of key importance in *Plasmodium falciparum* malaria pathogenesis and immunity**

Hviid, Lars, Jensen, Anja Ramstedt & Deitsch, K. W., 2024, (E-pub ahead of print) *Advances in Parasitology*. Academic Press, 51 s. (Advances in Parasitology).

### **3D blood-brain barrier-organoids as a model for Lyme neuroborreliosis highlighting genospecies dependent organotropism**

Adams, Yvonne, Clausen, Anne Skovsbo, Jensen, Peter Østrup, Lager, M., Wilhelmsson, P., Henningson, A. J., Lindgren, P. E., Faurholt-Jepsen, D., Mens, H., Kraiczy, P., Kragh, K. N., Bjarnsholt, Thomas, Kjær, Andreas, Lebech, Anne-Mette & Jensen, Anja Ramstedt, 2023, I: *iScience*. 26, 1, 105838.

### **3D organoid assay of the impact of infected erythrocyte adhesion on the blood-brain barrier**

Adams, Yvonne & Jensen, Anja Ramstedt, 2022, *Malaria Immunology: Targeting the Surface of Infected Erythrocytes*. Humana Press, Bind 2470. s. 587-599 13 s. (Methods in molecular biology (Clifton, N.J.)).

### **Affinity purification of PfEMP1-specific antibodies from human blood**

Olsen, Rebecca Wendelboe, Suurbaar, Jennifer & Jensen, Anja Ramstedt, 2022, *Malaria Immunology: Targeting the Surface of Infected Erythrocytes*. Humana Press, Bind 2470. s. 369-379 11 s. (Methods in molecular biology (Clifton, N.J.)).

### **Analysis of antibody inhibition of PfEMP1 binding by competition ELISA**

Olsen, Rebecca Wendelboe, Suurbaar, Jennifer & Jensen, Anja Ramstedt, 2022, *Malaria Immunology: Targeting the Surface of Infected Erythrocytes*. Humana Press, Bind 2470. s. 485-491 7 s. (Methods in molecular biology (Clifton, N.J.)).

### **Breadth of antibodies to *Plasmodium falciparum* variant surface antigens is associated with immunity in a controlled human malaria infection study**

CHMI-SIKA Study Team, C. S. T., 2022, I: *Frontiers in Immunology*. 13, 10 s., 894770.

### **Cerebral malaria - modelling interactions at the blood-brain barrier *in vitro***

Adams, Yvonne & Jensen, Anja Ramstedt, 2022, I: *Disease models & mechanisms*. 15, 7, dmm049410.

### **Chip-based assay of adhesion of *Plasmodium falciparum*-infected erythrocytes to cells under flow**

Adams, Yvonne & Jensen, Anja Ramstedt, 2022, *Malaria Immunology: Targeting the Surface of Infected Erythrocytes*. Jensen, A. T. R. & Hviid, L. (red.). Humana Press, s. 545-556 12 s. (Methods in molecular biology (Clifton, N.J.)).

**ICAM-1-binding *Plasmodium falciparum* erythrocyte membrane protein 1 variants elicits opsonic-phagocytosis IgG responses in Beninese children**

Suurbaar, Jennifer, Moussiliou, A., Tahar, R., Olsen, Rebecca Wendelboe, Adams, Yvonne, Dalgaard, Nanna, Baafour, E. K., Adukpo, S., Hviid, Lars, Kusi, K. A., Alao, J., Ofori, M. F., Ndam, N. T. & Jensen, Anja Ramstedt, 2022, I: Scientific Reports. 12, 12994.

**Malaria immunology: Targeting the surface of infected erythrocytes**

Jensen, Anja Ramstedt (red.) & Hviid, Lars (red.), 2022, Humana Press. 796 s. (Methods in Molecular Biology, Bind 2470).

**Neutrophils impose strong immune pressure against PfEMP1 variants implicated in cerebral malaria**

Zelter, T., Strahilevitz, J., Simantov, K., Yajuk, O., Adams, Yvonne, Jensen, Anja Ramstedt, Dzikowski, R. & Granot, Z., 2022, I: EMBO Reports. 23, e53641.

**Production of anti-PfEMP1 polyclonal antisera in rats and mice**

Olsen, Rebecca Wendelboe, Suurbaar, Jennifer & Jensen, Anja Ramstedt, 2022, *Malaria Immunology: Targeting the Surface of Infected Erythrocytes*. Jensen, A. T. R. & Hviid, L. (red.). Humana Press, Bind 2470. s. 381-389 9 s. (Methods in molecular biology (Clifton, N.J.)).

**Receptor affinity-based purification of PfEMP1 proteins**

Olsen, Rebecca Wendelboe, Suurbaar, Jennifer & Jensen, Anja Ramstedt, 2022, *Malaria Immunology: Targeting the Surface of Infected Erythrocytes*. Humana Press, Bind 2470. s. 299-308 10 s. (Methods in molecular biology (Clifton, N.J.)).

***Plasmodium falciparum* erythrocyte membrane protein 1 variants induce cell swelling and disrupt the blood-brain barrier in cerebral malaria**

Adams, Yvonne, Olsen, Rebecca Wendelboe, Bengtsson, A., Dalgaard, Nanna, Zdioruk, M., Satpathi, S., Behera, P. K., Sahu, P. K., Lawler, S. E., Qvortrup, Klaus, Wassmer, S. C. & Jensen, Anja Ramstedt, 2021, I: The Journal of Experimental Medicine. 218, 3, 16 s., e20201266.

**IRDye800CW labeled uPAR-targeting peptide for fluorescence-guided glioblastoma surgery: Preclinical studies in orthotopic xenografts**

Kurbegovic, Sorel, Stræde, Karina, Sørensen, K. K., Leth, Julie Maja, Willemoe, G. L., Christensen, Anders, Adams, Yvonne, Jensen, Anja Ramstedt, von Buchwald, Christian, Skjøth-rasmussen, J., Ploug, Michael, Jensen, Knud Jørgen & Kjær, Andreas, 2021, I: Theranostics. 11, 15, s. 7159-7174 16 s.

**Integrin activation enables sensitive detection of functional CD4<sup>+</sup> and CD8<sup>+</sup> T cells: Application to characterize SARS-CoV-2 immunity**

Schöllhorn, A., Schuhmacher, J., Besedovsky, L., Fendel, R., Jensen, Anja Ramstedt, Stevanović, S., Lange, T., Rammensee, H., Born, J., Gouttefangeas, C. & Dimitrov, S., 2021, I: Frontiers in Immunology. 12, 626308.

**PfEMP1-specific immunoglobulin G reactivity among Beninese pregnant women with sickle cell trait**

Lopez-Perez, Mary, Viwami, F., Seidu, Zakaria, Jensen, Anja Ramstedt, Doritchamou, J., Ndam, N. T. & Hviid, Lars, 2021, I: Open Forum Infectious Diseases. 8, 12, ofab527.

**Strain-Dependent Inhibition of Erythrocyte Invasion by Monoclonal Antibodies Against *Plasmodium falciparum* CyRPA**

Knudsen, Anne Schlitlerlau, Björnsson, K. H., Bassi, Maria Rosaria, Walker, Melanie Rose, Kok, A., Cristinoi, B., Jensen, Anja Ramstedt & Barfod, Lea Klingenberg, 2021, I: Frontiers in Immunology. 12, 716305.

**Cerebral *Plasmodium falciparum* malaria: The role of PfEMP1 in its pathogenesis and immunity, and PfEMP1-based vaccines to prevent it**

Jensen, Anja Ramstedt, Adams, Yvonne & Hviid, Lars, 2020, I: Immunological Reviews. 293, 1, s. 230-252

**Acquisition of IgG to ICAM-1-Binding DBL $\beta$  Domains in the *Plasmodium falciparum* erythrocyte membrane protein 1 antigen family varies between Groups A, B, and C**

Olsen, Rebecca Wendelboe, Ecklu-Mensah, G., Bengtsson, A., Ofori, M. F., Kusi, K. A., Koram, K. A., Hviid, Lars, Adams, Yvonne & Jensen, Anja Ramstedt, 2019, I: Infection and Immunity. 87, 10, e00224-19.

**Gas-coupled receptor signaling and sleep regulate integrin activation of human antigen-specific T cells**

Dimitrov, S., Lange, T., Gouttefangeas, C., Jensen, Anja Ramstedt, Szczepanski, M., Lehnnolz, J., Soekadar, S., Rammensee, H., Born, J. & Besedovsky, L., 2019, I: The Journal of Experimental Medicine. 216, 3, s. 517-526 10 s.

**A vaccine targeted specifically to prevent cerebral malaria - is there hope?**

Hviid, Lars, Lavstsen, Thomas & Jensen, Anja Ramstedt, jul. 2018, I: Expert Review of Vaccines. 17, 7, s. 565-567 3 s.

**A specific PfEMP1 is expressed in *P. falciparum* sporozoites and plays a role in hepatocyte infection**

Zanghi, G., Vembar, S. S., Baumgarten, S., Ding, S., Guizetti, J., Bryant, J. M., Mattei, D., Jensen, A. T. R., Rénia, L., Goh, Y. S., Sauerwein, R., Hermsen, C. C., Franetich, J-F., Bordessoulles, M., Silvie, O., Soulard, V., Scatton, O., Chen, P., Mecheri, S., Mazier, D. & 1 flere, Scherf, A., 2018, I: Cell Reports. 22, 11, s. 2951-2963 13 s.

**Activated integrins identify functional antigen-specific CD8 T cells within minutes after antigen stimulation**

Dimitrov, S., Gouttefangeas, C., Besedovsky, L., Jensen, Anja Ramstedt, Chandran, P. A., Rusch, E., Businger, R., Schindler, M., Lange, T., Born, J. & Rammensee, H., 2018, I: Proceedings of the National Academy of Sciences of the United States of America. 115, 24, s. E5536-E5545

**Blood outgrowth endothelial cells (BOECs) as a novel tool for studying adhesion of *Plasmodium falciparum*-infected erythrocytes**

Ecklu-Mensah, G., Olsen, Rebecca Wendelboe, Bengtsson, A., Ofori, M. F., Hviid, Lars, Jensen, Anja Ramstedt & Adams, Yvonne, 2018, I: PLoS ONE. 13, 10, 12 s., e0204177.

**Natural and vaccine-induced acquisition of cross-reactive IgG inhibiting ICAM-1-specific binding of a *Plasmodium falciparum* PfEMP1 subtype associated specifically with cerebral malaria**

Olsen, Rebecca Wendelboe, Ecklu-Mensah, G., Bengtsson, A., Ofori, M. F., Lusingu, J. P. A., Castberg, F. C., Hviid, Lars, Adams, Yvonne & Jensen, Anja Ramstedt, 2018, I: Infection and Immunity. 86, 4, 17 s., e00622-17.

**Shed EBA-175 mediates red blood cell clustering that enhances malaria parasite growth and enables immune evasion**

Paing, M. M., Salinas, N. D., Adams, Yvonne, Oksman, A., Jensen, Anja Ramstedt, Goldberg, D. E. & Tolia, N. H., 2018, I: eLife. 7, 18 s., e43224.

**Structure-guided identification of a family of dual receptor-binding PfEMP1 that is associated with cerebral malaria**

Lennartz, F., Adams, Y., Bengtsson, A., Olsen, R. W., Turner, L., Ndam, N. T., Ecklu-Mensah, G. D., Moussiliou, A., Ofori, M. F., Gamain, B., Lusingu, J. P., Petersen, J. E. V., Wang, C. W., Nunes-Silva, S., Jespersen, J. S., Lau, C. K. Y., Theander, T. G., Lavstsen, T., Hviid, L., Higgins, M. K. & 1 flere, Jensen, Anja Ramstedt, 8 mar. 2017, I: Cell Host & Microbe. 21, 3, s. 403-414 12 s.

**Parasites causing cerebral falciparum malaria bind multiple endothelial receptors and express EPCR and ICAM-1-binding PfEMP1**

Tuikue Ndam, N., Moussiliou, A., Lavstsen, Thomas, Kamaliddin, C., Jensen, Anja Ramstedt, Mama, A., Tahar, R., Wang, Christian William, Jespersen, Jakob Schmidt, Alao, J. M., Gamain, B., Theander, Thor Grundtvig & Deloron, P., 2017, I: The Journal of Infectious Diseases. 215, 12, s. 1918-1925 8 s.

**Characterizing the impact of sustained sulfadoxine/pyrimethamine use upon the *Plasmodium falciparum* population in Malawi**

Ravenhall, M., Benavente, E. D., Mipando, M., Jensen, Anja Ramstedt, Sutherland, C. J., Roper, C., Sepúlveda, N., Kwiatkowski, D. P., Montgomery, J., Phiri, K. S., Terlouw, A., Craig, A., Campino, S., Ocholla, H. & Clark, T. G., 29 nov. 2016, I: Malaria Journal. 15, 11 s., 575.

**PfEMP1 – a parasite protein family of key importance in *Plasmodium falciparum* malaria immunity and pathogenesis**

Hviid, Lars & Jensen, Anja Ramstedt, apr. 2015, *Advances in Parasitology*. Rollinson, D. & Stothard, J. R. (red.). Bind 88. s. 51-84 34 s. (Advances in Parasitology).

**Mapping the binding site of a cross-reactive *Plasmodium falciparum* PfEMP1 monoclonal antibody inhibitory of ICAM-1 binding**

Lennartz, F., Bengtsson, A., Olsen, Rebecca Wendelboe, Joergensen, L., Brown, A., Remy, L., Man, P., Forest, E., Barfod, Lea Klingenberg, Adams, Yvonne, Higgins, M. K. & Jensen, Anja Ramstedt, 2015, I: Journal of immunology (Baltimore, Md. : 1950). 195, 7, s. 3273-83 11 s.

**Whole-Genome Scans Provide Evidence of Adaptive Evolution in Malawian *Plasmodium falciparum* Isolates**

Ocholla, H., Preston, M. D., Mipando, M., Jensen, A. T. R., Campino, S., MacInnis, B., Alcock, D., Terlouw, A., Zongo, I., Oudraogo, J-B., Djimde, A. A., Assefa, S., Doumbo, O. K., Borrmann, S., Nzila, A., Marsh, K., Fairhurst, R. M., Nosten, F., Anderson, T. J. C., Kwiatkowski, D. P. & 3 flere, Craig, A., Clark, T. G. & Montgomery, J., 19 jun. 2014, I: The Journal of Infectious Diseases. 210, 12, s. 1991-2000 10 s.

**An analysis of the binding characteristics of a panel of recently selected ICAM-1 binding *Plasmodium falciparum* patient isolates**

Madkhali, A. M., Alkurbi, M. O., Szeszak, T., Bengtsson, A., Patil, P. R., Wu, Y., Alharthi, S., Jensen, Anja Ramstedt, Pleass, R. & Craig, A. G., 2014, I: PLOS ONE. 9, 10, 8 s., e111518.

**Exonuclease-mediated degradation of nascent RNA silences genes linked to severe malaria**

Zhang, Q., Siegel, T. N., Martins, R. M., Wang, F., Cao, J., Gao, Q., Cheng, X., Jiang, L., Hon, C., Scheidig-Benatar, C., Sakamoto, H., Turner, Louise, Jensen, Anja Ramstedt, Claes, A., Guizetti, J., Malmquist, N. A. & Scherf, A., 2014, I: Nature. 531, s. 431-435

**A Novel Domain Cassette Identifies *Plasmodium falciparum* PfEMP1 Proteins Binding ICAM-1 and Is a Target of Cross-Reactive, Adhesion-Inhibitory Antibodies**

Bengtsson, A., Joergensen, L., Rask, T. S., Olsen, R. W., Andersen, M. A., Turner, Louise, Theander, Thor Grundtvig, Hviid, Lars, Higgins, M. K., Craig, A., Brown, A. & Jensen, Anja Ramstedt, 2013, I: Journal of Immunology. 190, 1, s. 240-9 10 s.

**Transfected HEK293 Cells Expressing Functional Recombinant Intercellular Adhesion Molecule 1 (ICAM-1) - A Receptor Associated with Severe *Plasmodium falciparum* Malaria**

Bengtsson, A., Joergensen, L., Barbati, Z. R., Craig, A., Hviid, Lars & Jensen, Anja Ramstedt, 2013, I: PLOS ONE. 8, 7, s. e69999

**Analysis of Single-cell Gene Transcription by RNA Fluorescent In Situ Hybridization (FISH)**

Ronander, E., Bengtsson, D. C., Joergensen, L., Jensen, Anja Ramstedt & Arnot, D. E., 2012, I: Journal of Visualized Experiments. 68

**Antigenic variation and the genetics and epigenetics of the PfEMP1 erythrocyte surface antigens in *Plasmodium falciparum* malaria**

Arnot, D. E. & Jensen, Anja Ramstedt, 2011, I: Advances in Applied Microbiology. 74, s. 77-96 20 s.

**Hierarchical, domain type-specific acquisition of antibodies to *Plasmodium falciparum* erythrocyte membrane protein 1 in Tanzanian children**

Cham, G. K. K., Turner, Louise, Kurtis, J. D., Mutabingwa, T., Fried, M., Jensen, Anja Ramstedt, Lavstsen, Thomas, Hviid, Lars, Duffy, P. E. & Theander, Thor Grundtvig, 2010, I: Infection and Immunity. 78, 11, s. 4653-9 6 s.

**Insect cells are superior to *Escherichia coli* in producing malaria proteins inducing IgG targeting PfEMP1 on infected erythrocytes**

Victor, M. E., Bengtsson, A., Andersen, G., Bengtsson, D., Lusingu, J. P., Vestergaard, L. S., Arnot, D. E., Theander, Thor Grundtvig, Joergensen, L. & Jensen, Anja Ramstedt, 2010, I: Malaria Journal. 9, s. 325

**Surface co-expression of two different PfEMP1 antigens on single *Plasmodium falciparum*-infected erythrocytes facilitates binding to ICAM1 and PECAM1**

Joergensen, L., Bengtsson, D. C., Bengtsson, A., Ronander, E., Berger, S. S., Turner, Louise, Dalgaard, M. B., Cham, G. K. K., Victor, M. E., Lavstsen, Thomas, Theander, Thor Grundtvig, Arnot, D. E. & Jensen, Anja Ramstedt, 2010, I: PLoS Pathogens. 6, 9, s. e1001083

**Sequential, ordered acquisition of antibodies to *Plasmodium falciparum* erythrocyte membrane protein 1 domains**  
Cham, G. K. K., Turner, Louise, Lusingu, J., Vestergaard, L., Mmbando, B. P., Kurtis, J. D., Jensen, Anja Ramstedt, Salanti, Ali, Lavstsen, Thomas & Theander, Thor Grundtvig, 2009, I: Journal of Immunology. 183, 5, s. 3356-63 7 s.

**A method for visualizing surface-exposed and internal PfEMP1 adhesion antigens in *Plasmodium falciparum* infected erythrocytes**

Bengtsson, D., Sowa, K. M., Salanti, Ali, Jensen, Anja Ramstedt, Joergensen, L., Turner, Louise, Theander, Thor Grundtvig & Arnot, D. E., 2008, I: Malaria Journal. 7, s. 101

**A semi-automated multiplex high-throughput assay for measuring IgG antibodies against *Plasmodium falciparum* erythrocyte membrane protein 1 (PfEMP1) domains in small volumes of plasma**

Cham, G. K. K., Kurtis, J., Lusingu, J., Theander, Thor Grundtvig, Jensen, Anja Ramstedt & Turner, Louise, 2008, I: Malaria Journal. 7, s. 108

**CD36 selection of 3D7 *Plasmodium falciparum* associated with severe childhood malaria results in reduced VAR4 expression**

Magistrado, P., Staalsoe, T., Theander, Thor Grundtvig, Hviid, Lars & Jensen, Anja Ramstedt, 2008, I: Malaria Journal. 7, 1, s. 204

**3D7-derived *Plasmodium falciparum* erythrocyte membrane protein 1 is a frequent target of naturally acquired antibodies recognizing protein domains in a particular pattern independent of malaria transmission intensity**

Joergensen, L., Vestergaard, L. S., Turner, Louise, Magistrado, P., Lusingu, J. P., Lemnge, M., Theander, Thor Grundtvig & Jensen, Anja Ramstedt, 2007, I: Journal of Immunology. 178, 1, s. 428-35 7 s.

**Immunoglobulin G antibody reactivity to a group A *Plasmodium falciparum* erythrocyte membrane protein 1 and protection from *P. falciparum* malaria**

Magistrado, P. A., Lusingu, J., Vestergaard, L. S., Lemnge, M., Lavstsen, Thomas, Turner, Louise, Hviid, Lars, Jensen, Anja Ramstedt & Theander, Thor Grundtvig, 2007, I: Infection and Immunity. 75, 5, s. 2415-20 5 s.

**Potential impact of host immunity on malaria treatment outcome in Tanzanian children infected with *Plasmodium falciparum***

Enevold, A., Nkya, W. M. M. M., Theisen, M., Vestergaard, L. S., Jensen, Anja Ramstedt, Staalsoe, T., Theander, Thor Grundtvig, Bygbjerg, Ib Christian & Alifrangis, Michael, 2007, I: Malaria Journal. 6, s. 153

***Baculovirus*-expressed constructs induce immunoglobulin G that recognizes VAR2CSA on *Plasmodium falciparum*-infected erythrocytes**

Barfod, Lea Klingenberg, Nielsen, Morten Agertoug, Turner, Louise, Dahlbäck, M., Jensen, Anja Ramstedt, Hviid, Lars, Theander, Thor Grundtvig & Salanti, Ali, 2006, I: Infection and Immunity. 74, 7, s. 4357-60 3 s.

**Differential expression of *var* gene groups is associated with morbidity caused by *Plasmodium falciparum* infection in Tanzanian children**

Rottmann, M., Lavstsen, Thomas, Mugasa, J. P., Kaestli, M., Jensen, Anja Ramstedt, Müller, D., Theander, Thor Grundtvig & Beck, H., 2006, I: Infection and Immunity. 74, 7, s. 3904-11 7 s.

**Levels of plasma immunoglobulin G with specificity against the cysteine-rich interdomain regions of a semiconserved *Plasmodium falciparum* erythrocyte membrane protein 1, VAR4, predict protection against malarial anemia and febrile episodes**

Lusingu, J. P. A., Jensen, Anja Ramstedt, Vestergaard, L. S., Minja, D. T., Dalgaard, M. B., Gesase, S., Mmbando, B. P., Kitua, A. Y., Lemnge, M. M., Cavanagh, D., Hviid, Lars & Theander, Thor Grundtvig, 2006, I: Infection and Immunity. 74, 5, s. 2867-75 8 s.

**Limited cross-reactivity among domains of the *Plasmodium falciparum* clone 3D7 erythrocyte membrane protein 1 family**

Joergensen, L., Turner, Louise, Magistrado, P., Dahlbäck, M. A., Vestergaard, L. S., Lusingu, J. P., Lemnge, M., Salanti, Ali, Theander, Thor Grundtvig & Jensen, Anja Ramstedt, 2006, I: Infection and Immunity. 74, 12, s. 6778-84 6 s.

**Occurrence of the Southeast Asian/South American SVMNT haplotype of the chloroquine-resistance transporter gene in *Plasmodium falciparum* in Tanzania**

Alifrangis, Michael, Dalgaard, M. B., Lusingu, J. P., Vestergaard, L. S., Staalsoe, T., Jensen, Anja Ramstedt, Enevold, A., Rønn, A. M., Khalil, I. F., Warhurst, D. C., Lemnge, M. M., Theander, Thor Grundtvig & Bygbjerg, Ib Christian, 2006, I: Journal of Infectious Diseases. 193, 12, s. 1738-41 3 s.

**Programmed transcription of the *var* gene family, but not of *stevor*, in *Plasmodium falciparum* gametocytes**

Sharp, S., Lavstsen, Thomas, Fivelman, Q. L., Saeed, M., McRobert, L., Templeton, T. J., Jensen, Anja Ramstedt, Baker, D. A., Theander, Thor Grundtvig & Sutherland, C. J., 2006, I: Eukaryotic Cell. 5, 8, s. 1206-14 8 s.

**Expression of *Plasmodium falciparum* erythrocyte membrane protein 1 in experimentally infected humans**

Lavstsen, Thomas, Magistrado, P., Hermsen, C. C., Salanti, Ali, Jensen, Anja Ramstedt, Sauerwein, R., Hviid, Lars, Theander, Thor Grundtvig & Staalsoe, T., 2005, I: Malaria Journal. 4, 1, s. 21

***Plasmodium falciparum* associated with severe childhood malaria preferentially expresses PfEMP1 encoded by group A *var* genes**

Jensen, Anja Ramstedt, Magistrado, P., Sharp, S., Joergensen, L., Lavstsen, Thomas, Chiucchiuni, A., Salanti, Ali, Vestergaard, L. S., Lusingu, J. P., Hermsen, R., Sauerwein, R., Christensen, J., Nielsen, Morten Agertoug, Hviid, Lars, Sutherland, C., Staalsoe, T. & Theander, Thor Grundtvig, 2004, I: Journal of Experimental Medicine. 199, 9, s. 1179-90 11 s.

**Compounds useful in the diagnosis and treatment of pregnancy-associated malaria**

Theander, Thor Grundtvig, Salanti, Ali, Hviid, Lars, Staalsoe, Trine, Jensen, Anja Ramstedt, Lavstsen, Thomas & Dahlbäck, M., 2004, Patentnr. WO2004067559 A1, Prioritetsdato 27 jan. 2003, Prioritetsnr. WO2004067559 A1

**Evidence for the involvement of VAR2CSA in pregnancy-associated malaria**

Salanti, Ali, Dahlbäck, M., Turner, Louise, Nielsen, Morten Agertoug, Barfod, Lea Klingenberg, Magistrado, P., Jensen, Anja Ramstedt, Lavstsen, Thomas, Ofori, M. F., Marsh, K., Hviid, Lars & Theander, Thor Grundtvig, 2004, I: Journal of Experimental Medicine. 200, 9, s. 1197-203 6 s.

***In vitro* selection of *Plasmodium falciparum* 3D7 for expression of variant surface antigens associated with severe malaria in African children**

Staalsoe, T., Nielsen, Morten Agertoug, Vestergaard, L. S., Jensen, Anja Ramstedt, Theander, Thor Grundtvig & Hviid, Lars, 2003, I: Parasite Immunology. 25, 8-9, s. 421-7 6 s.

**Lack of gender-specific antibody recognition of products from domains of a *var* gene implicated in pregnancy-associated *Plasmodium falciparum* malaria**

Jensen, Anja Ramstedt, Zornig, H. D., Buhmann, Cæcilie Christine Böck, Salanti, Ali, Koram, K. A., Riley, E. M., Theander, Thor Grundtvig, Hviid, Lars & Staalsoe, T., 2003, I: Infection and Immunity. 71, 7, s. 4193-6 3 s.

**Selective upregulation of a single distinctly structured *var* gene in chondroitin sulphate A-adhering *Plasmodium falciparum* involved in pregnancy-associated malaria**

Salanti, Ali, Staalsoe, T., Lavstsen, Thomas, Jensen, Anja Ramstedt, Sowa, M. P. K., Arnot, D. E., Hviid, Lars & Theander, Thor Grundtvig, 2003, I: Molecular Microbiology. 49, 1, s. 179-91 12 s.

**Sub-grouping of *Plasmodium falciparum* 3D7 *var* genes based on sequence analysis of coding and non-coding regions**

Lavstsen, Thomas, Salanti, Ali, Jensen, Anja Ramstedt, Arnot, D. E. & Theander, Thor Grundtvig, 2003, I: Malaria Journal. 2, s. 27

**A sub-family of common and highly conserved *Plasmodium falciparum* *var* genes**

Salanti, Ali, Jensen, Anja Ramstedt, Zornig, H. D., Staalsoe, T., Joergensen, L., Nielsen, Morten Agertoug, Khattab, A., Arnot, D. E., Klinkert, M. Q., Hviid, Lars & Theander, Thor Grundtvig, 2002, I: Molecular and Biochemical Parasitology. 122, 1, s. 111-5 4 s.

**Humoral and cellular immune responses to glucose regulated protein 78 - a novel *Leishmania donovani* antigen**

Jensen, Anja Ramstedt, Ismail, A., Gaafar, A., El Hassan, A. M. & Theander, Thor Grundtvig, 2002, I: Tropical Medicine & International Health. 7, 5, s. 471-6 5 s.

**Novel *Plasmodium falciparum* malaria vaccines: evidence-based searching for variant surface antigens as candidates for vaccination against pregnancy-associated malaria**

Staalsoe, T., Jensen, Anja Ramstedt, Theander, Thor Grundtvig & Hviid, Lars, 2002, I: Immunology Letters. 84, 2, s. 133-6 3 s.

**Cloning, expression and antigenicity of the *L. donovani* reductase**

Jensen, Anja Ramstedt, Kemp, K., Theander, Thor Grundtvig & Handman, E., 2001, I: Acta Pathologica Microbiologica et Immunologica Scandinavica. 109, 6, s. 461-8 7 s.

**Molecular and immunological characterisation of the glucose regulated protein 78 of *Leishmania donovani***

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