Anja Ramstedt Jensen
Professor, Professor
TARGETS team
CMP
CMP
Postal address:
Blegdamsvej 3B, 2200 København N, 07 Bygning 7
07-11-TR4
Postal address:
Nørre Allé 14
2200
København N
Email: atrj@sund.ku.dk
Mobile: +4524600892
Phone: +4535327682

Short presentation

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.

Research outputs

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 p. (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, In: 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, Vol. 2470. p. 587-599 13 p. (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, Vol. 2470. p. 369-379 11 p. (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, Vol. 2470. p. 485-491 7 p. (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, In: Frontiers in Immunology. 13, 10 p., 894770.

Cerebral malaria - modelling interactions at the blood-brain barrier *in vitro*
Adams, Yvonne & Jensen, Anja Ramstedt, 2022, In: 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. (eds.). Humana Press, p. 545-556 12 p. (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, In: Scientific Reports. 12, 12994.

Malaria immunology: Targeting the surface of infected erythrocytes
Jensen, Anja Ramstedt (ed.) & Hviid, Lars (ed.), 2022, Humana Press. 796 p. (Methods in Molecular Biology, Vol. 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, In: 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. (eds.). Humana Press, Vol. 2470. p. 381-389 9 p. (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, Vol. 2470. p. 299-308 10 p. (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, In: The Journal of Experimental Medicine. 218, 3, 16 p., 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, In: Theranostics. 11, 15, p. 7159-7174 16 p.

Integrin activation enables sensitive detection of functional $CD4^+$ and $CD8^+$ 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, In: 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 , In: Open Forum Infectious Diseases. 8, 12, ofab527.

Strain-Dependent Inhibition of Erythrocyte Invasion by Monoclonal Antibodies Against *Plasmodium falciparum* CyRPA
Knudsen, Anne Schlitterlau, Björnsson, K. H., Bassi, Maria Rosaria, Walker, Melanie Rose, Kok, A., Cristinoi, B., Jensen, Anja Ramstedt & Barfod, Lea Klingenberg, 2021, In: 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, In: Immunological Reviews. 293, 1, p. 230-252

Acquisition of IgG to ICAM-1-Binding DBLβ 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, In: Infection and Immunity. 87, 10, e00224-19.

Gαs-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, In: The Journal of Experimental Medicine. 216, 3, p. 517-526 10 p.

A vaccine targeted specifically to prevent cerebral malaria - is there hope?
Hviid, Lars, Lavstsen, Thomas & Jensen, Anja Ramstedt, Jul 2018, In: Expert Review of Vaccines. 17, 7, p. 565-567 3 p.

A specific PfEMP1 is expressed in *P. falciparum* sporozoites and plays a role in hepatocyte infection
Zanghì, 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 others, Scherf, A., 2018, In: Cell Reports. 22, 11, p. 2951-2963 13 p.

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, In: Proceedings of the National Academy of Sciences of the United States of America. 115, 24, p. 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, In: PLoS ONE. 13, 10, 12 p., 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, In: Infection and Immunity. 86, 4, 17 p., 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, In: eLife. 7, 18 p., 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 others, Jensen, Anja Ramstedt, 8 Mar 2017, In: Cell Host & Microbe. 21, 3, p. 403-414 12 p.

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, In: The Journal of Infectious Diseases. 215, 12, p. 1918-1925 8 p.

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, In: Malaria Journal. 15, 11 p., 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. (eds.). Vol. 88. p. 51-84 34 p. (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, In: Journal of immunology (Baltimore, Md. : 1950). 195, 7, p. 3273-83 11 p.

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 others, Craig, A., Clark, T. G. & Montgomery, J., 19 Jun 2014, In: The Journal of Infectious Diseases. 210, 12, p. 1991-2000 10 p.

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., Szestak, T., Bengtsson, A., Patil, P. R., Wu, Y., Alharthi, S., Jensen, Anja Ramstedt, Pleass, R. & Craig, A. G., 2014, In: PLOS ONE. 9, 10, 8 p., 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, In: Nature. 531, p. 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, In: Journal of Immunology. 190, 1, p. 240-9 10 p.

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, In: PLOS ONE. 8, 7, p. 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, In: 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, In: Advances in Applied Microbiology. 74, p. 77-96 20 p.

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, In: Infection and Immunity. 78, 11, p. 4653-9 6 p.

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, In: Malaria Journal. 9, p. 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, In: PLoS Pathogens. 6, 9, p. 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, In: Journal of Immunology. 183, 5, p. 3356-63 7 p.

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, In: Malaria Journal. 7, p. 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, In: Malaria Journal. 7, p. 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, In: Malaria Journal. 7 , 1, p. 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, In: Journal of Immunology. 178, 1, p. 428-35 7 p.

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, In: Infection and Immunity. 75, 5, p. 2415-20 5 p.

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, In: Malaria Journal. 6, p. 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, In: Infection and Immunity. 74, 7, p. 4357-60 3 p.

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, In: Infection and Immunity. 74, 7, p. 3904-11 7 p.

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, In: Infection and Immunity. 74, 5, p. 2867-75 8 p.

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, In: Infection and Immunity. 74, 12, p. 6778-84 6 p.

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, In: Journal of Infectious Diseases. 193, 12, p. 1738-41 3 p.

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, In: Eukaryotic Cell. 5, 8, p. 1206-14 8 p.

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, In: Malaria Journal. 4, 1, p. 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, Chiucchiuini, 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, In: Journal of Experimental Medicine. 199, 9, p. 1179-90 11 p.

Compounds useful in the diagnosis and treatment of pregnancy-associated malaria
Theander, Thor Grundtvig, Salanti, Ali, Hviid, Lars, Staalsø, Trine, Jensen, Anja Ramstedt, Lavstsen, Thomas & Dahlbäck, M., 2004, Patent No. WO2004067559 A1, Priority date 27 Jan 2003, Priority No. 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, In: Journal of Experimental Medicine. 200, 9, p. 1197-203 6 p.

***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, In: Parasite Immunology. 25, 8-9, p. 421-7 6 p.

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, In: Infection and Immunity. 71, 7, p. 4193-6 3 p.

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, In: Molecular Microbiology. 49, 1, p. 179-91 12 p.

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, In: Malaria Journal. 2, p. 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, In: Molecular and Biochemical Parasitology. 122, 1, p. 111-5 4 p.

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, In: Tropical Medicine & International Health. 7, 5, p. 471-6 5 p.

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, In: Immunology Letters. 84, 2, p. 133-6 3 p.

Cloning, expression and antigenicity of the *L. donovani* reductase
Jensen, Anja Ramstedt, Kemp, K., Theander, Thor Grundtvig & Handman, E., 2001, In: Acta Pathologica Microbiologica et Immunologica Scandinavica. 109, 6, p. 461-8 7 p.

Molecular and immunological characterisation of the glucose regulated protein 78 of *Leishmania donovani*
Jensen, Anja Ramstedt, Curtis, J., Montgomery, J., Handman, E. & Theander, Thor Grundtvig, 2001, In: BBA General Subjects. 1549, 1, p. 73-87 14 p.

Molecular characterization of a *Leishmania donovani* cDNA clone with similarity to human 20S proteasome a-type subunit
Christensen, C. B., Jørgensen, L., Jensen, Anja Ramstedt, Gasim, S., Chen, M., Kharazmi, A., Theander, Thor Grundtvig & Andresen, K., 2000, In: BBA General Subjects. 1500, 1, p. 77-87 10 p.

Serodiagnosis of *Leishmania donovani* infections: assessment of enzyme-linked immunosorbent assays using recombinant *L. donovani* gene B protein (GBP) and a peptide sequence of *L. donovani* GBP
Jensen, Anja Ramstedt, Gasim, S., Moller, T., Ismail, A., Gaafar, A., Kemp, M., el Hassan, A. M., Kharazmi, A., Alce, T. M. , Smith, D. F. & Theander, Thor Grundtvig, 1999, In: Transactions of the Royal Society of Tropical Medicine and Hygiene. 93, 2, p. 157-60 3 p.

Humoral and cellular immune responses to synthetic peptides of the *Leishmania donovani* kinetoplastid membrane protein-11
Jensen, Anja Ramstedt, Gasim, S., Ismail, A., Gaafar, A., Kurtzhals, Jørgen, Kemp, M., El Hassan, A. M., Kharazmi, A. & Theander, Thor Grundtvig, 1998, In: Scandinavian Journal of Immunology. 48, 1, p. 103-9 6 p.

Serodiagnosis of cutaneous leishmaniasis: assessment of an enzyme-linked immunosorbent assay using a peptide sequence from gene B protein
Jensen, Anja Ramstedt, Gaafar, A., Ismail, A., Christensen, C. B., Kemp, M., Hassan, A. M., Kharazmi, A. & Theander, Thor Grundtvig, 1996, In: American Journal of Tropical Medicine and Hygiene. 55, 5, p. 490-5 5 p.