

Publikationen

Determining the Optimal Normalization Factor of Different Target Arteries for ex vivo Vascular Function Experiments: A New Standardized Procedure.

J Vasc Res. 2020 Feb 27:1-7.

<https://pubmed.ncbi.nlm.nih.gov/32107347/>

Haptoglobin administration into the subarachnoid space prevents hemoglobin-induced cerebral vasospasm.

J Clin Invest. 2019 Dec 2;129(12):5219-5235.

<https://pubmed.ncbi.nlm.nih.gov/31454333/>

Heart rate elevations during early sepsis predict death in fluid-resuscitated rats with fecal peritonitis.

Intensive Care Med Exp. 2018 Aug 20;6(1):28.

<https://pubmed.ncbi.nlm.nih.gov/30128907/>

Revisiting the putative role of heme as a trigger of inflammation.

Pharmacol Res Perspect. 2018 Mar 30;6(2):e00392.

<https://pubmed.ncbi.nlm.nih.gov/29610666/>

Phenotype-specific recombinant haptoglobin polymers co-expressed with C1r-like protein as optimized hemoglobin-binding therapeutics.

BMC Biotechnol. 2018 Mar 15;18(1):15.

<https://pubmed.ncbi.nlm.nih.gov/29544494/>

Hemoglobinuria related acute kidney injury is driven by intra-renal oxidative reactions triggering a heme toxicity response.

Cell Death Dis. 2016 Jan 21;7.

<https://pubmed.ncbi.nlm.nih.gov/26794659/>

Haptoglobin Preserves Vascular Nitric Oxide Signaling During Hemolysis.

Am J Respir Crit Care Med. 2016 May 15;193(10):1111-22.

<https://pubmed.ncbi.nlm.nih.gov/26694989/>

Different target specificities of haptoglobin and hemopexin define a sequential protection system against vascular hemoglobin toxicity.

Free Radic Biol Med. 2015 Oct 22;89:931-943.

<https://pubmed.ncbi.nlm.nih.gov/26475040/>

Integrative proteome and transcriptome analysis of extramedullary erythropoiesis and its reversal by transferrin treatment in a mouse model of beta-thalassemia.

J Proteome Res. 2015 Feb 6;14(2):1089-100.

<https://pubmed.ncbi.nlm.nih.gov/25566950/>

Proteasome inhibition and oxidative reactions disrupt cellular homeostasis during heme stress.

Cell Death Differ. 2015 Apr;22(4):597-611.

<https://pubmed.ncbi.nlm.nih.gov/25301065/>

Mechanisms of haptoglobin protection against hemoglobin peroxidation triggered endothelial damage.

Cell Death Differ. 2013 Nov;20(11):1569-79.

<https://pubmed.ncbi.nlm.nih.gov/23995229/>

Chloroquine interference with hemoglobin endocytic trafficking suppresses adaptive heme and iron homeostasis in macrophages: the paradox of an antimalarial agent.

Oxid Med Cell Longev. 2013;2013:870472.

<https://pubmed.ncbi.nlm.nih.gov/23840921/>

Glucocorticoid treatment skews human monocyte differentiation into a hemoglobin-clearance phenotype with enhanced heme-iron metabolism and anti-oxidant pathways.

Blood. 2010 Dec 9;116(24):5347-56.

<https://pubmed.ncbi.nlm.nih.gov/20739658/>

Heme carrier protein (HCP-1) spatially interacts with the CD163 hemoglobin uptake pathway and is a target of inflammatory macrophage activation.

J Leukoc Biol. 2008 Feb;83(2):325-33.

<https://pubmed.ncbi.nlm.nih.gov/17947394/>

CD163-expressing monocytes constitute an endotoxin-sensitive Hb clearance compartment within the vascular system.

J Leukoc Biol. 2007 Jul;82(1):106-10.

<https://pubmed.ncbi.nlm.nih.gov/17460152/>

Hemophagocytic macrophages constitute a major compartment of heme oxygenase expression in sepsis.

Eur J Haematol. 2006 Nov;77(5):432-6.

<https://pubmed.ncbi.nlm.nih.gov/17044836/>

Constitutive endocytosis of CD163 mediates hemoglobin-heme uptake and determines the noninflammatory and protective transcriptional response of macrophages to hemoglobin.

Circ Res. 2006 Oct 27;99(9):943-50.

<https://pubmed.ncbi.nlm.nih.gov/17008602/>

CD163 is the macrophage scavenger receptor for native and chemically modified hemoglobins in the absence of haptoglobin.

Blood. 2006 Jan 1;107(1):373-80. Epub 2005 Sep 27.

<https://pubmed.ncbi.nlm.nih.gov/16189277/>

Rapid detection of pathogenic fungi from clinical specimens using LightCycler real-time fluorescence PCR.

Eur J Clin Microbiol Infect Dis. 2003 Sep;22(9):558-60.

<https://pubmed.ncbi.nlm.nih.gov/12938011/>

Vollständige Publikationslisten

<https://pubmed.gov/?term=Schaer%20CA%20OR%2012938011>

<https://scholar.google.ch/citations?hl=de&user=wRwjUKYAAAAJ>

Mitgliedschaften

Schweiz. Gesellschaft für Anästhesiologie und Reanimation (SGAR)

European Society of Anaesthesiology (ESA)

Verbindung der Schweizer Ärztinnen und Ärzte (FMH)

Verband Schweizerischer Assistenz- und Oberärzte (VSAO)

Forschungsschwerpunkte

Schutzmechanismen und -funktionen des Plasmaproteins Haptoglobin

Toxizitätsmechanismen von zellfreiem Hämoglobin:

- Modifikationen des vaskuläres NO-Signalings
- Oxidative Effekte und Gewebeschädigungen
- Entzündung und Immunomodulation