

Jeremy Werner Deuel

Publications (<https://orcid.org/0000-0002-5409-7712>) as of 10 May 2021

Publications as first or last author

1. **Deuel JW**, Lutz HU, Misselwitz B, Goede JS. Asymptomatic elevation of the hyperchromic red blood cell subpopulation is associated with decreased red cell deformability. *Ann Hematol* 2012; 91(9):1427-34
2. Lipiski M*, **Deuel JW***, Baek JW, Engelsberger WR, Buehler PW, Schaer DJ. Human Hp1-1 and Hp2-2 phenotype-specific haptoglobin therapeutics are both effective in vitro and in guinea pigs to attenuate hemoglobin toxicity. *Antioxid Redox Signal*. 2013 Nov 10;19(14):1619-33 * equal contribution.
3. Schaer CA*, **Deuel JW***, Bittermann AG, Rubio IG, Schoedon G, Spahn DR, Wepf RA, Vallelian F and Schaer DJ. Mechanisms of haptoglobin protection against hemoglobin peroxidation triggered endothelial damage. *Cell Death Differ*. 2013 Nov;20(11):1569-79 * equal contribution.
4. **Deuel JW**, Vallelian F, Schaer CA, Puglia M, Buehler PW, Schaer DJ. Different target specificities of haptoglobin and hemopexin define a sequential protection system against vascular hemoglobin toxicity. *Free Radic Biol Med*. 2015 Dec;89:931-43.
5. **Deuel JW**, Schaer CA, Boretti FS, Opitz L, Garcia-Rubio I, Baek JH, Spahn DR, Buehler PW, Schaer DJ. Hemoglobinuria-related acute kidney injury is driven by intrarenal oxidative reactions triggering a heme toxicity response. *Cell Death Dis*. 2016 Jan 21;7:e2064.
6. Hugelshofer M*, **Deuel JW***, Buzzi RM, Humar R, Schaer DJ, Schaer CA. Determining the Optimal Normalization Factor of Different Target Arteries for ex vivo Vascular Function Experiments: A New Standardized Procedure. *J Vasc Res*. 2020;57(2):106-112. * equal contribution
7. Bielecki M, Züst R, Siegrist D, Meyerhofer D, Cramer GAG, Stanga ZG, Stettbacher A, Buehrer TW, **Deuel JW**. Social distancing alters the clinical course of COVID-19 in young adults: A comparative cohort study. *Clin Inf Dis* 2020. doi:10.1093/cid/ciaa889
8. Bielecki M, Cramer GAG, Schlagenhauf P, Buehrer TW, **Deuel JW**. Body temperature screening to identify SARS-CoV-2 infected young adult travellers is ineffective. [commentary] *Travel Medicine and Infectious Diseases* 37 (2020): 101832. doi:10.1016/j.tmaid.2020.101832
9. Cramer GAG, Bielecki M, Züst R, Buehrer TW, Stanga Z, **Deuel JW**. Reduced maximal aerobic capacity after COVID-19 in young adult recruits, Switzerland, May 2020. *Eurosurveillance* 2020; doi:10.2807/1560-7917.ES.2020.25.36.2001542
10. Jonsdottir HR, Bielecki M, Siegrist D, Buehrer TW, Züst R, **Deuel JW**. Titers of Neutralizing Antibodies against SARS-CoV-2 Are Independent of Symptoms of Non-Severe COVID-19 in Young Adults. *Viruses* 2021, 13, 284. <https://doi.org/10.3390/v13020284>

Other publications

11. Vallelian F, **Deuel JW**, Opitz L, Schaer CA, Puglia M, Lönn M, Engelsberger W, Schauer S, Karnaukhova E, Spahn DR, Stocker R, Buehler PW, Schaer DJ. Proteasome inhibition and oxidative reactions disrupt cellular homeostasis during heme stress. *Cell Death Differ*. 2015 Apr;22(4):597-611.
12. Reinhart WH, Piety NZ, **Deuel JW**, Makhro A, Schulzki T, Bogdanov N, Goede JS, Bogdanova A, Abidi R, Shevkopyas SS. Washing stored red blood cells in an albumin solution improves their morphologic and hemorheologic properties. *Transfusion*. 2015 Aug;55(8):1872-81.
13. Vallelian F, Garcia-Rubio I, Puglia M, Kahraman A, **Deuel JW**, Engelsberger WR, Mason RP, Buehler PW, Schaer DJ. Spin trapping combined with quantitative mass spectrometry defines free

- radical redistribution within the oxidized hemoglobin:haptoglobin complex.
Free Radic Biol Med. 2015 Aug;85:259-68.
14. Schaer CA, **Deuel JW**, Schildknecht D, Mahmoudi L, Garcia-Rubio I, Owczarek C, Schauer S, Kissner R, Banerjee U, Palmer AF, Spahn DR, Irwin DC, Vallelian F, Buehler PW, Schaer DJ. Haptoglobin Preserves Vascular Nitric Oxide Signaling during Hemolysis. *Am J Respir Crit Care Med.* 2016 May 15;193(10):1111-22.
 15. Schaer CA, Owczarek C, **Deuel JW**, Schauer S, Baek JH, Yalamanoglu A, Hardy MP, Scotney PD, Schmidt PM, Pelzing M, Soupourmas P, Buehler PW, Schaer DJ. Phenotype-specific recombinant haptoglobin polymers co-expressed with C1r-like protein as optimized hemoglobin-binding therapeutics. *BMC Biotechnol.* 2018 Mar 15;18(1):15.
 16. Vallelian F, Schaer CA, **Deuel JW**, Ingoglia G, Humar R, Buehler PW, Schaer DJ. Revisiting the putative role of heme as a trigger of inflammation. *Pharmacol Res Perspect.* 2018 Mar 30; 6(2):e00392.
 17. Yalamanoglu A, **Deuel JW**, Hunt RC, Baek JH, Hassell K, Redinius K, Irwin DC, Schaer DJ, Buehler PW. Depletion of haptoglobin and hemopexin promote hemoglobin-mediated lipoprotein oxidation in sickle cell disease. *Am J Physiol Lung Cell Mol Physiol.* 2018 Nov 1;315(5):L765-L774.
 18. Hugelshofer M, Sikorski CM, Seule M, **Deuel J**, Muroi CI, Seboek M, Akeret K, Buzzi R, Regli L, Schaer DJ, Keller E. Cell-Free Oxyhemoglobin in Cerebrospinal Fluid After Aneurysmal Subarachnoid Hemorrhage: Biomarker and Potential Therapeutic Target. *World Neurosurg.* 2018 Dec;120:e660-e666. doi: 10.1016/j.wneu.2018.08.141.
 19. Zipser CM, **Deuel J**, Ernst J, Schubert M, von Känel R, Böttger S. The predisposing and precipitating risk factors for delirium in neurosurgery: a prospective cohort study of 949 patients. *Acta Neurochir (Wien).* 2019 May 20. doi: 10.1007/s00701-019-03927-z.
 20. Boretti FS, Burla B, **Deuel J**, Gao L, Wenk MR, Liesegang A, Sieber-Ruckstuhl NS. Serum lipidome analysis of healthy beagle dogs receiving different diets. *Metabolomics.* 2019 Dec 3;16(1):1.
 21. Zipser CM, **Deuel J**, Ernst J, Schubert M, Weller M, von Känel R, Boettger S. Predisposing and precipitating factors for delirium in neurology: a prospective cohort study of 1487 patients. *J Neurol.* 2019 Dec;266(12):3065-3075.
 22. Hugelshofer M, Buzzi RM, Schaer CA, Richter H, Akeret K, Anagnostakou V, Mahmoudi L, Vaccani R, Vallelian F, **Deuel JW**, Kronen PW, Kulcsar Z, Regli L, Baek JH, Pires IS, Palmer AF, Dennler M, Humar R, Buehler PW, Kircher PR, Keller E, Schaer DJ. Haptoglobin administration into the subarachnoid space prevents hemoglobin-induced cerebral vasospasm. *J Clin Invest* 2019 Dec 2; 129(12):5219-35.
 23. Boettger S, Zipser CM, Bode L, Spiller T, **Deuel J**, Osterhoff G, Ernst J, Petry H, Volbracht J, von Känel R. The prevalence rates and adversities of delirium: Too common and disadvantageous. *Palliat Support Care.* 2020 Aug 3:1-9. doi: 10.1017/S1478951520000632.
 24. Zipser CM, Seiler A, **Deuel J**, Ernst J, Hildenbrand F, von Känel R, Boettger S. Hospital-wide evaluation of delirium incidence in adults under 65years of age. *Psychiatry Clin Neurosci.* 2020 Sept 18. doi: 10.1111/pcn.13155.
 25. Seiler A., Blum D., **Deuel J. W.**, Hertler C., Schettle M., Zipser C. M., Ernst J., Schubert M., von Känel R., Boettger S., Delirium is associated with an increased morbidity and in-hospital mortality in cancer patients: Results from a prospective cohort study. *Palliat Support Care*, 2021: p. 1-10.
 26. Wolf S, **Deuel JW**, Hollmén M, Felmerer G, Kim BS, Vasella M, Grünherz L, Giovanoli P, Lindenblatt N, Gousopoulos E. A Distinct Cytokine Profile and Stromal Vascular Fraction Metabolic Status without Significant Changes in the Lipid Composition Characterizes Lipidedema. *Int J Mol Sci* 2021, 22(7), 3313.