

Newsletter of the Vascular Biology Institute – 2023/1

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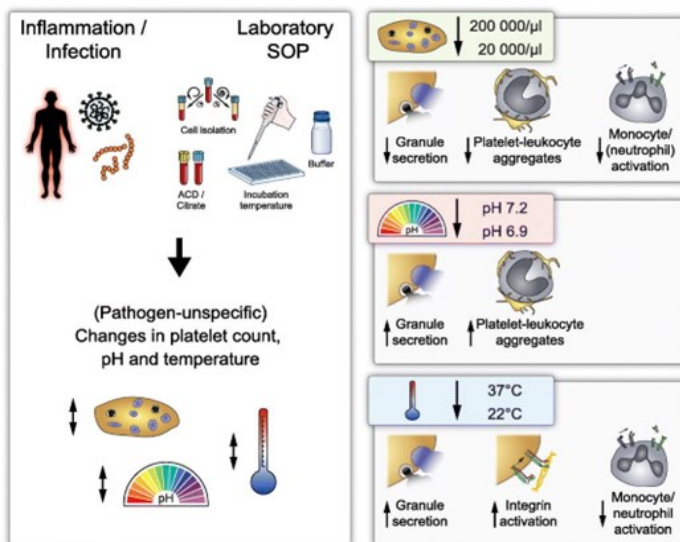


New publications with team members as first- or corresponding author

Teams (alphabetically) :

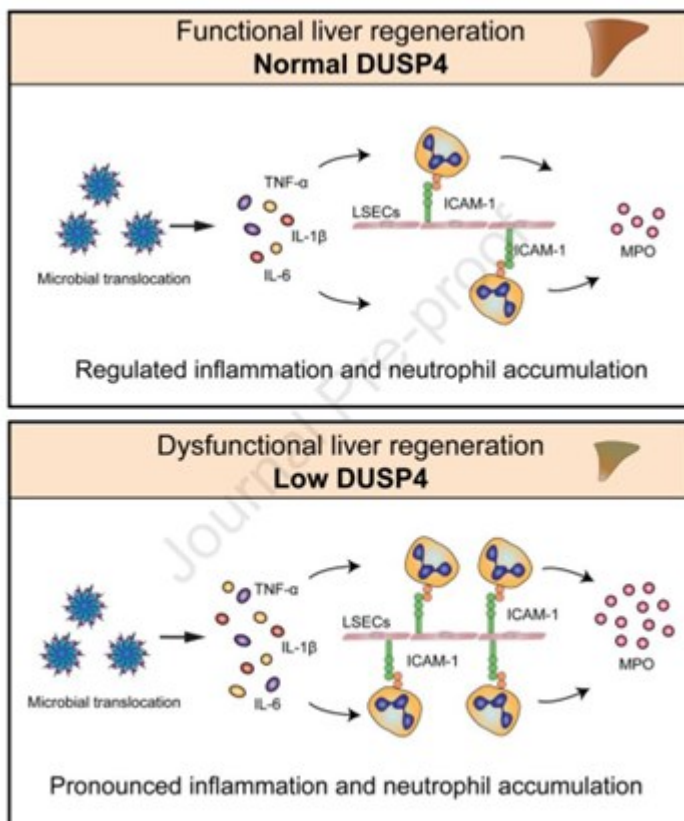
Assinger/Schrottmaier group

Microenvironmental factors differently affect hemostatic and immunomodulatory platelet functions



[Platelet count, temperature and pH value differentially affect hemostatic and immunomodulatory functions of platelets.](#)

Schmuckenschlager A, Pirabe A, Assinger A, Schrottmaier WC. **Thromb Res.** 2023 Mar;223:111-122. doi: 10.1016/j.thromres.2023.01.026. Epub 2023 Jan 27. PMID: 36738664



[Transcriptomic landscapes of effective and failed liver regeneration in humans](#)

Patrick Starlinger, Laura Brunthaler, Chantal McCabe, David Pereyra, Jonas Santol, Jessica Steadman, Matthias Hackl, Susanna Skalicky, Hubert Hackl, Raphael Gronauer, Daniel O'Brien, Renate Kain, Petra Hirsova, Gregory J Gores, Chen Wang, Thomas Gruenberger, Rory L Smoot, Alice Assinger **J Hep Reports**, February 02, 2023

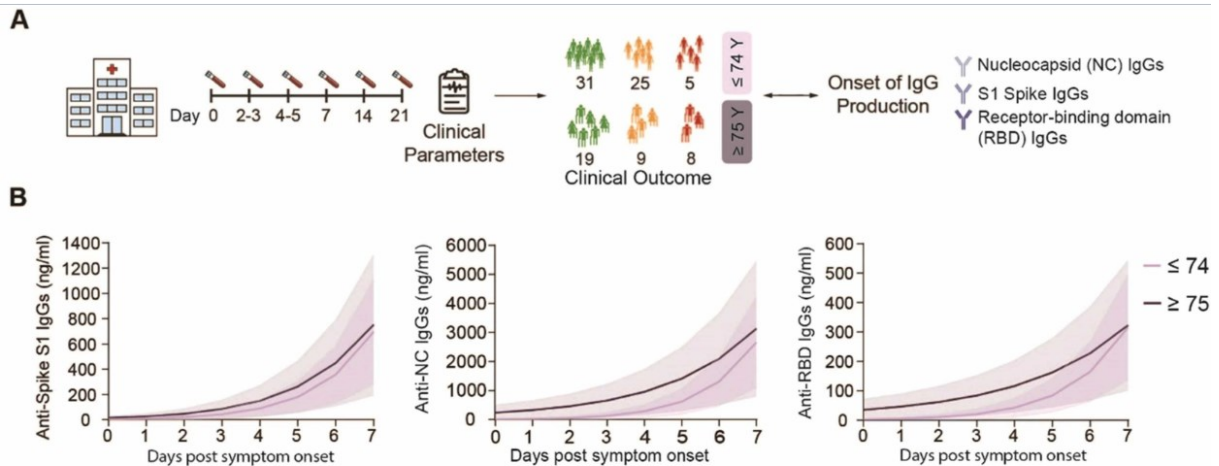
DUSP4, dual specificity protein phosphatase 4; ICAM-1, intracellular adhesion molecule-1; IL-1β, interleukin-1β; IL-6, interleukin-6; LSECs, liver sinusoidal endothelial cells; MPO, myeloperoxidase; TNF-α, tumor necrosis factor-α.

<https://doi.org/10.1016/j.jhepr.2023.100683>

[Immunoglobulin G production in COVID-19 - associations with age, outcome, viral persistence, inflammation and pro-thrombotic markers.](#)

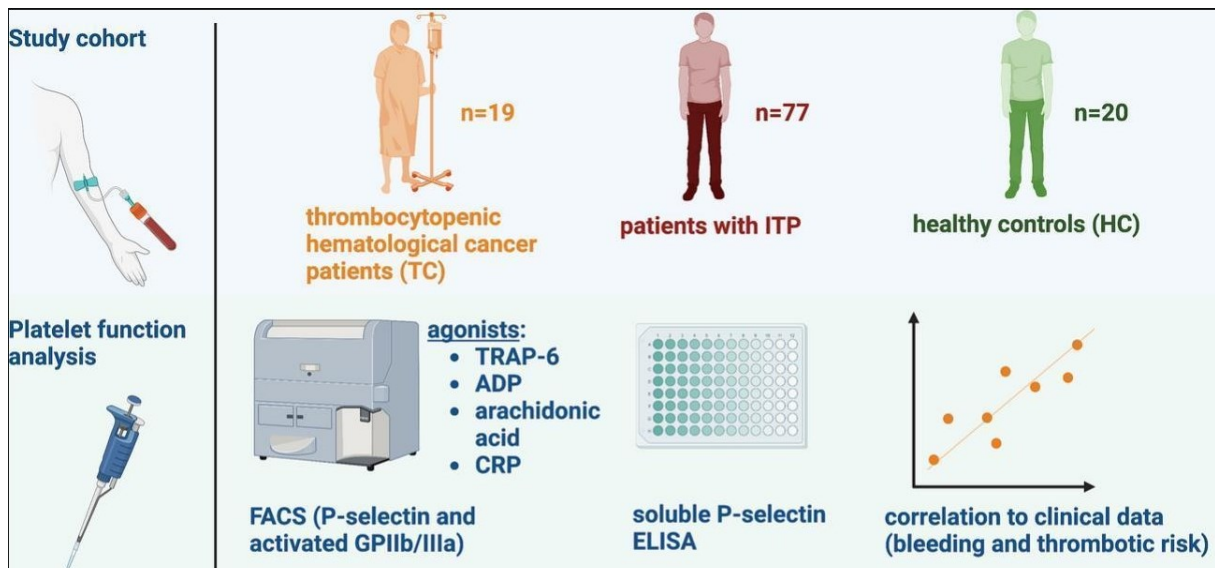
Pirabe A, Schrottmaier WC, Heber S, Schmuckenschlager A, Treiber S, Pereyra D, Santol J, Pawelka E, Traugott M, Schörghofer C, Seitz T, Karolyi M, Jilma B, Resch U, Zoufaly A, Assinger A.

J Infect Public Health. 2023 Mar;16(3):384-392. doi: 10.1016/j.jiph.2023.01.016. Epub 2023 Jan 21. PMID: 36702013



[Platelet function and soluble P-selectin in patients with primary immune thrombocytopenia.](#)

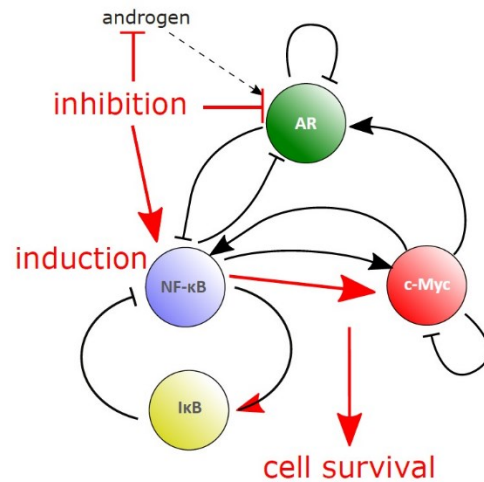
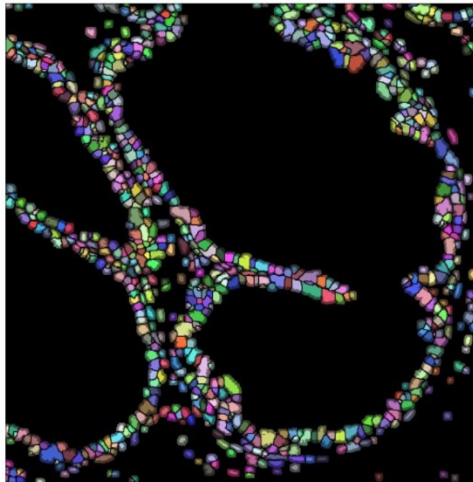
Mehic D, Machacek J, Schramm T, Buresch L, Kaider A, Eichelberger B, Haslacher H, Fillitz M, Dixler B, Flasch T, Anderle T, Rath A, Assinger A, Ay C, Pabinger I, Gebhart J. **Thromb Res.** 2023 Mar;223:102-



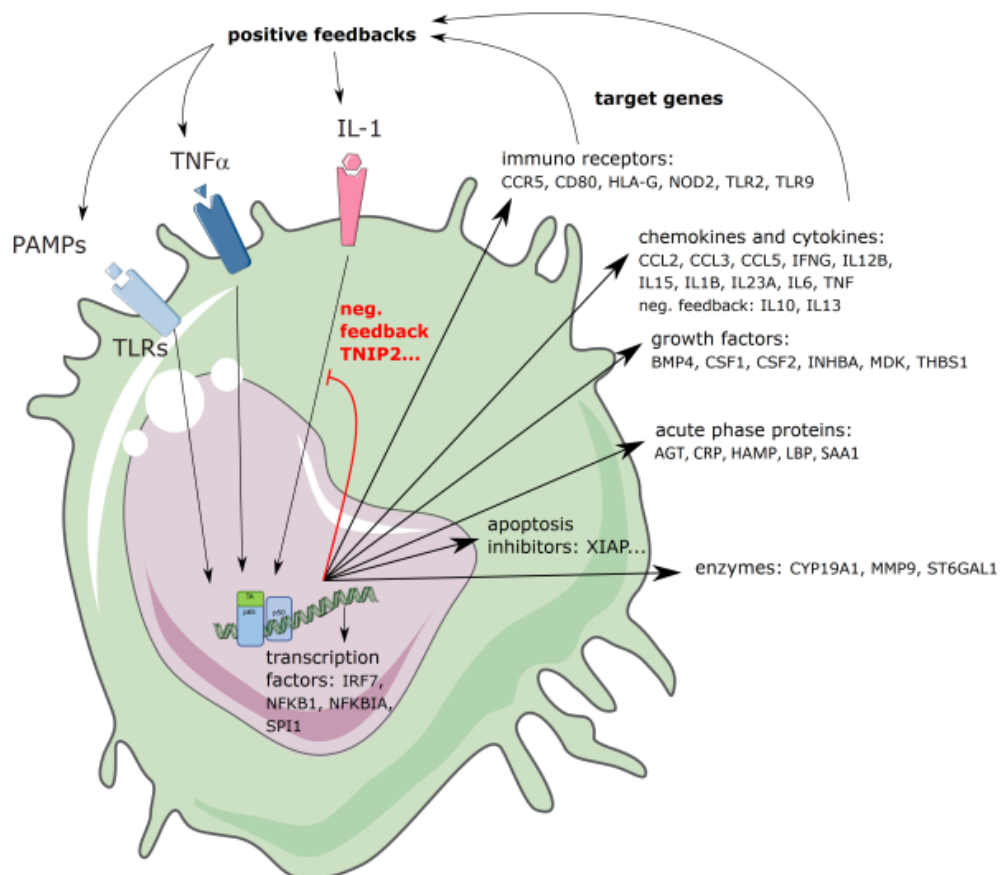
110. doi: 10.1016/j.thromres.2023.01.012. Epub 2023 Jan 16. PMID: 36738663

Schmid group

[Antagonistic Functions of Androgen Receptor and NF- \$\kappa\$ B in Prostate Cancer-Experimental and Computational Analyses.](#) Basilio J, Hochreiter B, Hoesel B, Sheshori E, Mussbacher M, Hanel R, Schmid JA. *Cancers* (Basel). 2022 Dec 14;14(24):6164. doi: 10.3390/cancers14246164.PMID: 36551650



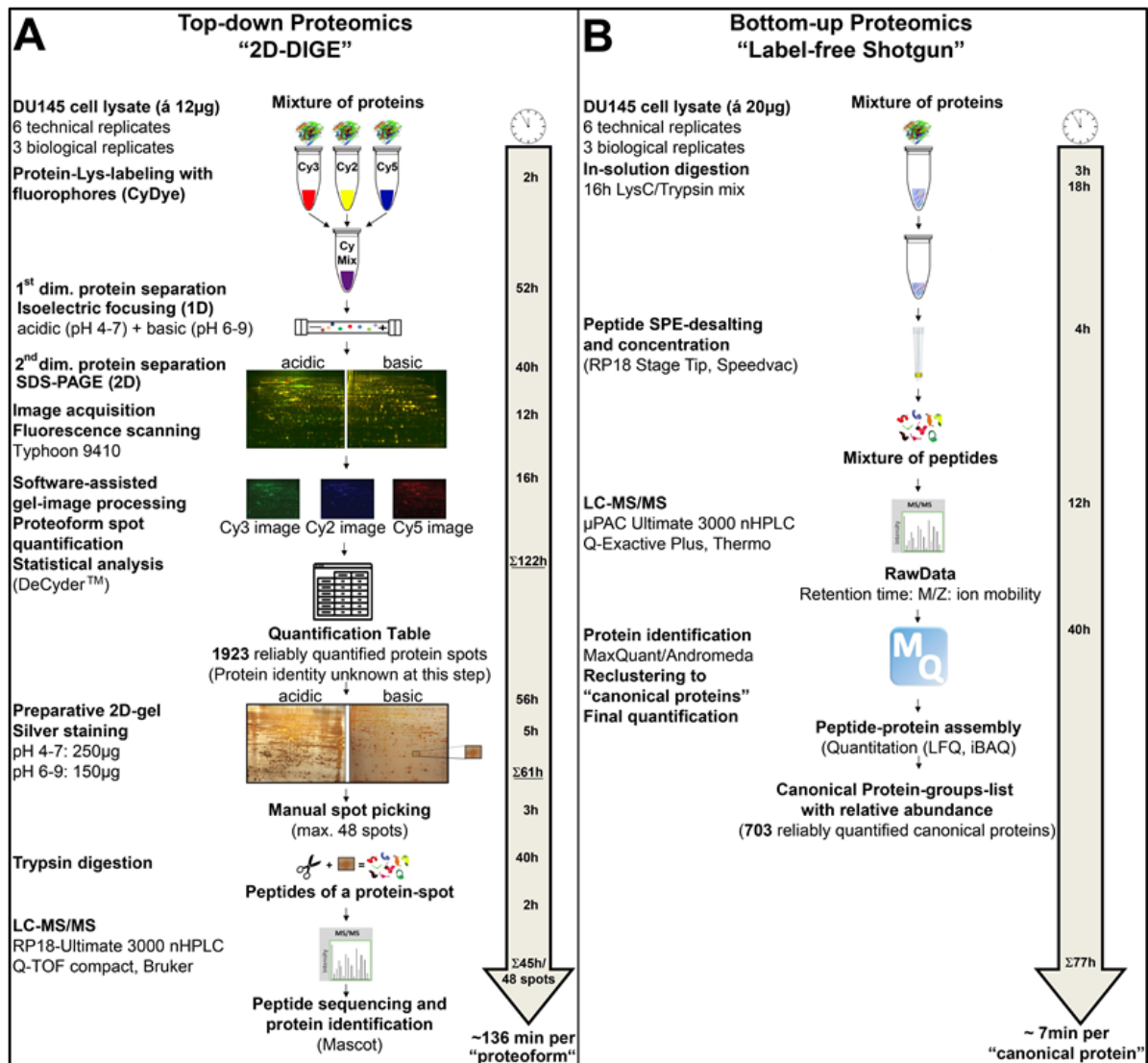
[NF- \$\kappa\$ B in monocytes and macrophages – an inflammatory master regulator in multitalented immune cells:](#) Marion Mussbacher, Martina Derler, José Basílio and Johannes A. Schmid. *Front. Immunol.*, 23 February 2023 (Sec. Molecular Innate Immunity, Volume 14)



A Practical and Analytical Comparative Study of Gel-Based Top-Down and Gel-Free Bottom-Up Proteomics Including Unbiased Proteoform Detection

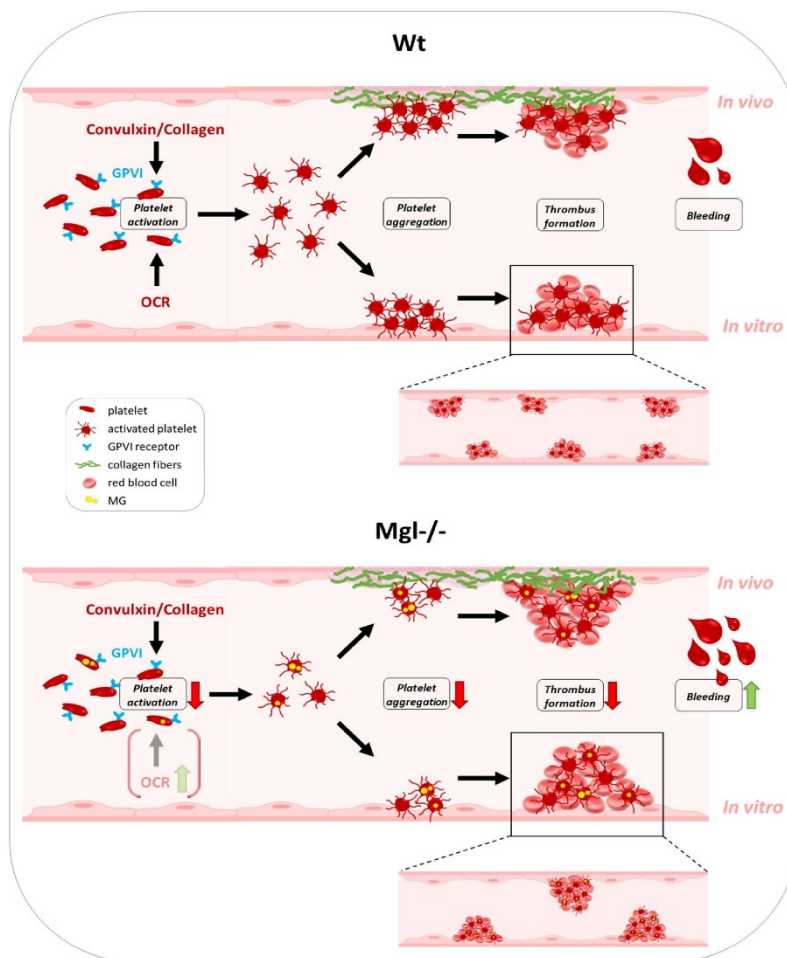
Huriye Ercan, Ulrike Resch, Felicia Hsu, Goran Mitulovic, Andrea Bileck, Christopher Gerner, Jae-Won Yang, Margarethe Geiger, Ingrid Miller, Maria Zellner. *Cells* 2023, 12(5), 747;

<https://doi.org/10.3390/cells12050747>



New publications as co-author

Assinger/Schrottmaier group



[Monoglyceride Lipase Deficiency Is Associated with Altered Thrombogenesis in Mice.](#)

Goeritzer M, Kuentzel KB, Beck S, Korbelius M, Rainer S, Bradić I, Kolb D, Mussbacher M, Schrottmaier WC, Assinger A, Schlagenhauf A, Rost R, Gottschalk B, Eichmann TO, Züllig T, Graier WF, Vujčić N, Kratky D. *Int J Mol Sci.* 2023 Feb 4;24(4):3116. doi: 10.3390/ijms24043116. PMID: 36834530

[Early administration of remdesivir may reduce mortality in hospitalized COVID-19 patients : A propensity score matched analysis.](#)

Karolyi M, Kaltenecker L, Pawelka E, Kuran A, Platzer M, Totschnig D, Koenig F, Hoepfer W, Laferl H, Omid S, Seitz T, Traugott M, Arthofer S, Erlbeck L, Jaeger S, Kettenbach A, Assinger A, Wenisch C, Zoufaly A. *Wien Klin Wochenschr.* 2022 Dec;134(23-24):883-891. doi: 10.1007/s00508-022-02098-9. Epub 2022 Oct 27. PMID: 36301355

Schabbauer group

[The human placenta shapes the phenotype of decidual macrophages.](#)

Vondra S, Höbler AL, Lackner AI, Raffetseder J, Mihalic ZN, Vogel A, Saleh L, Kunihs V, Haslinger P, Wahrmann M, Husslein H, Oberle R, Kargl J, Haider S, Latos P, Schabbauer G, Knöfler M, Ernerudh J, Pollheimer J. *Cell Rep.* 2023 Jan 31;42(1):111977.

Schmid group

[Effects of Hyperoxia and Hyperoxic Oscillations on the Proteome of Murine Lung Microvascular Endothelium](#). Tiboldi A, Hunyadi-Gulyas E, Wohlrab P, Schmid JA, Markstaller K, Klein KU, Tretter V. *Antioxidants* (Basel). 2022 Nov 28;11(12):2349. doi: 10.3390/antiox11122349.PMID: 36552557

New funding and grants

Assinger/Schrottmaier group

DigiOmics4AUT (BMBWF-Calls für Digitale Forschungsinfrastrukturen)

Finished Master or PhD theses

Assinger/Schrottmaier group

Master thesis: Sabine Frühwirth

Master thesis: Johanna Pichler

New team members

Schmid-group:

Manuel Campos (postdoc)



Aiden Blumer (master st.)



Gaetano Spinelli (visiting scientist)



Assinger/Schrottmaier-group:

Silvia Trivigno (visiting PhD student)



Schabbauer-group:

Jasmin Wächter (Luxemburg):

