

## Martin Hof – List of publications from 2010:

(152 entries; till 3/2024)

Overview (conference abstracts, editorials, protein data, and news items are not listed):

- 139 Articles in Impacted Journals (in total since 1989: 230)
- 1 Article in Conference Proceedings listed in Web of Science (in total since 1989: 5)
- 7 Chapters in Books (in total since 1989: 20)
- 5 Edited Books (in total since 1989: 7)
- 0 Patents (in total since 1989: 1)
- 0 Articles in non-impact Journals (in total since 1989: 2)

### (Entire list of publications till 2009 has 113 entries)

1. **Thakur, Garima Chand Nakul - Uday, Arunima - Cebecauer, Marek - Roos, W. H. - Cwiklik, Lukasz - Hof, Martin - Jurkiewicz, Piotr - Melcrová, Adéla**  
Charge of a transmembrane peptide alters its interaction with lipid membranes.  
*Colloids and Surfaces B-Biointerfaces*. Roč. 235, MAR 2024 (2024), s. 113765.
2. **Lolicato, F. - Steringer, J. P. - Saleppico, R. - Beyer, D. - Fernandez-Sobaberas, J. - Unger, S. - Klein, S. - Riegerová, Petra - Wegehingel, S. - Müller, H.-M. - Schmitt, X. J. - Kaptan, S. - Freund, Ch. - Hof, Martin - Šachl, Radek - Chlanda, P. - Vattulainen, I. - Nickel, W.**  
Disulfide bridge-dependent dimerization triggers FGF2 membrane translocation into the extracellular space. *eLife*. 12, JAN 2024 (2024), RP88579
3. **Anita Dudek - Paulina Strugała - Danak - Teresa Kral - Martin Hof - Hanna Pruchnik**  
An analysis of interactions between three structurally diverse anthocyanidins, as well as their glucosides, and model biological membranes, albumin, and plasmid DNA  
*Scientific Reports*. Vol. 13, July (2023), art. No. 12883
4. **Davidović, David - Kukulka, M. - Sarmiento, M. J. - Mikhalyov, I. - Gretskeya, N. - Chmelová, Barbora - Ricardo, Joana Catarina - Hof, Martin - Cwiklik, Lukasz - Šachl, Radek**  
Which Moiety Drives Gangliosides to Form Nanodomains?  
*Journal of Physical Chemistry Letters*. Vol. 14, no. 25 (2023), p. 5791-5797
5. **Singh, Vandana - Macharová, Sabína - Riegerová, Petra - Steringer, J. P. - Mueller, H. - Lolicato, F. - Nickel, W. - Hof, Martin - Šachl, Radek**

Determining the Functional Oligomeric State of Membrane- Associated Protein Oligomers Forming Membrane Pores on Giant Lipid Vesicles. *Analytical Chemistry*. Vol. 95, no. 23 (2023), p. 8807-881

6. **Uzhytchak, Mariia - Smolková, Barbora - Frtús, Adam - Stupakov, Alexandr - Lunova, Mariia - Scollo, Federica - Hof, Martin - Jurkiewicz, Piotr - Sullivan, G.J. - Dejneka, Alexandr - Lunov, Oleg**  
Sensitivity of endogenous autofluorescence in HeLa cells to the application of external magnetic fields. *Scientific Reports*. Vol. 13, July (2023), art.no. 10818.
7. **Varade, V. - Haider, Golam - Slobodeniuk, A. - Korytár, R. - Novotný, T. - Holý, V. - Mikšátko, Jiří - Plšek, Jan - Sýkora, Jan - Basová, M. - Žáček, M. - Hof, Martin - Kalbáč, Martin - Vejpravová, J.**  
Chiral Light Emission from a Hybrid Magnetic Molecule-Monolayer Transition Metal Dichalcogenide Heterostructure. *ACS Nano*. Vol. 17, no. 3 (2023), p. 2170-2181.
8. **Abhinav, Abhinav - Jurkiewicz, Piotr - Hof, Martin - Allolio, C. - Sýkora, Jan**  
Modulation of Anionic Lipid Bilayers by Specific Interplay of Protons and Calcium Ions Biomolecules. Vol. 12, no. 12 (2022), art. 1894.
9. **Lolicato, F. - Saleppico, R. - Griffo, A. - Meyer, A. - Scollo, Federica - Pokrandt, B. - Müller, H.-M. - Ewers, H. - Hähl, H. - Fleury, J.-B. - Seemann, R. - Hof, Martin - Brügger, B. - Jacobs, K. - Vattulainen, I. - Nickel, W.**  
Cholesterol promotes clustering of PI(4,5)P2 driving unconventional secretion of FGF2 *Journal of Cell Biology*. Vol. 221, no. 11 (2022), art. e202106123.
10. **Ragaller, F. - Andronico, L. - Sýkora, Jan - Kulig, W. - Rog, T. - Urem, Y. B. - Abhinav, Abhinav - Danylchuk, D. I. - Hof, Martin - Klymchenko, A. - Amaro, Mariana - Vattulainen, I. - Sezgin, E.**  
Dissecting the mechanisms of environment sensitivity of smart probes for quantitative assessment of membrane properties. *Open Biology*. Vol. 12, no. 9 (2022), art. 220175
11. **Nguyen, M. T. H.; Biriukov D.; Tempra, C.; Baxova, K.; Martinez-Seara, H.; Evcı, H., Singh, V.; Šachl, R.; Hof, M.; Jungwirth, P.; Javanainen, M.; Mario Vazdar, M.** Ionic Strength and Solution Composition Dictate the Adsorption of Cell-Penetrating Peptides onto Phosphatidylcholine Membranes. *Langmuir* 2022
12. **Pokorná, Š.; Ventura, A. E.; Santos, T. C. B.; Hof, M.; Prieto, M.; Futerman, A. H.; Silva, L. C.** Laurdan in live cell imaging: Effect of acquisition settings, cell culture conditions and data analysis on generalized polarization measurements. *Journal of Photochemistry and Photobiology. B - Biology Section*. 228, 2022, art. 112404, p. 1873-2682.
13. **Pospisil, P.; Cwiklik, L.; Sykora, J; Hof, M.; Greetham, G.; Towrie, M.; Vlcek, A.** Solvent-dependent excited-state evolution of Prodan dyes. *The Journal of Physical Chemistry*. 124, č. 5 (2020), s. 788-797.
14. **Sarmento, M. J.; Owen, M. C.; Ricardo, J. C.; Chmelova, B.; Davidovic, D.; Mikhalyov, I.; Gretsckaya, N.; Hof, M.; Amaro, M.; Vacha, R.; Sachl, R.** The impact of the glycan headgroup on

the nanoscopic segregation of gangliosides. *Biophysical Journal*. Roč. 120, č. 24 (2021), s. 5530-5543

15. **Scollo, F.; Evci, H.; Amaro, M.; Jurkiewicz, P.; Sykora, J.; Hof, M.** What Does Time-Dependent Fluorescence Shift (TDFS) in Biomembranes (and Proteins) *Report on Frontiers in Chemistry October 2021*, Vol. 9, Art. 738350.
16. **Smolková, B.; MacCulloch, T.; Rockwood, T.F.; Liu, M.; Henry, S.J.W.; Frtús, A.; Uzhytchak, M.; Lunova, M.; Hof, M.; Jurkiewicz, P.; Dejneka, A.; Stephanopoulos, N.; Lunov, O.** Protein corona inhibits endosomal escape of functionalized DNA nanostructures in living cells. *ACS Applied Materials and Interfaces*. Vol. 13, no. 39 (2021), p. 46375-46390.
17. **Marchand, R.; Šachl, R.; Kalbáč M.; Hof M.; Tromp, R.; Amaro, M.; van der Molen, M.; Juffmann, T.;** Optical Near-Field Electron Microscopy. *Physical Review Applied*. Vol. 16, no. 1 (2021), art. 014008.
18. **Haider, G.; Sampathkumar, K.; Verhagen, T.; Nádvorník, L.; Farjana, J. S.; Valeš, V.; Sýkora J.; Kapusta, P.; Němec, P.; Hof, M.; Frank, O.; Chen, Y. F.; Vejpravová, J.; Kalbáč, M.** Superradiant Emission from Coherent Excitons in van Der Waals Heterostructures. *Advanced Functional Materials*. Vol. 2021, May 2021 (2021), art. 2102196.
19. **Shi, S.; Quarta, N.; Zhang, H.; Lu, Z.; Hof, M.; Šachl, R.; Liu, R.; Hoernke, M.;** Hidden complexity in membrane permeabilization behavior of antimicrobial polycations. *Physical Chemistry Chemical Physics*. Vol. 23, no. 2 (2021), p. 1475-1488.
20. **Strugata, P.; Urbaniak, A; Kurys, P.; Vloch, A.; Ugorski, M.; Hof, M.; Gabrielska, J.;** Antitumor and antioxidant activities of purple potato ethanolic extract and its interaction with liposomes, albumin and plasmid DNA, *Food & Function*. Vol. 12, no. 3 (2021), p. 1271-1290.
21. **Šachl, R.; Čujová, S.; Singh, V.; Riegerová, P.; Kapusta, P.; Müller, H.-M.; Steringer, J. P.; Hof, M.; Nickel, W.** Functional Assay to Correlate Protein Oligomerization States with Membrane Pore Formation. *Analytical Chemistry*. Vol. 92, no. 22 (2020), p. 14861-14866.
22. **Frtús, A.; Smolková, B.; Uzhytchak, M.; Lunova, M.; Jirsa, M.; Hof, M.; Jurkiewicz, P.; Lozinsky, V.; Wolfová, J.; Petrenko, Y.; Kubinová, Š.; Dejneka, A.; Lunov, O.** Hepatic tumor cell morphology plasticity under physical constraints in 3D cultures driven by YAP-mTOR axis. *Pharmaceuticals*. Vol. 13, no. 12 (2020), p. 1-25, art. 430.
23. **Olžyńska, A.; Kulig, W.; Mikkolainen, H.; Czerniak, T.; Jurkiewicz, P.; Cwiklik, L.; Rog, T.; Hof, M.; Jungwirth, P.; Vattulainen, I.** Tail-Oxidized Cholesterol Enhances Membrane Permeability for Small Solutes. *Langmuir*. Vol. 36, no. 35 (2020), p. 10438-10447.
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25. **Lopez Mora, N.; Boyle, A. L.; van Kolck, B. J.; Rossen, A.; Pokorná, Š.; Koukalová, A.; Šachl, R.; Hof, M.; Kros, A.** Controlled Peptide-Mediated Vesicle Fusion Assessed by Simultaneous Dual-

Colour Time-Lapsed Fluorescence Microscopy. *Scientific Reports*. Vol. 10, no. 1 (2020), art. 3087. ISSN 2045-2322.

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28. **Sarmiento, M. J.; Hof, M.; Šachl, R.** Interleaflet Coupling of Lipid Nanodomains – Insights From in vitro Systems. *Frontiers in cell and developmental biology*. Vol. 8, APR 2020 (2020), art. 284.
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31. **Pospíšil, P.; Sýkora, J.; Takematsu, K.; Hof, M.; Gray, H. B.; Vlček, A.;** Light-Induced Nanosecond Relaxation Dynamics of Rhenium-Labeled *Pseudomonas aeruginosa* Azurins. *Journal of Physical Chemistry B*. Vol. 124, no. 5 (2020), p. 788-797.
32. **Vinklárek, I. S.; Vel'as, L.; Riegerová, P.; Skála, K. ; Mikhalyov, I.; Gretskaya, N.; Hof, M.; Šachl, R.** Experimental Evidence of the Existence of Interleaflet Coupled Nanodomains: An MC-FRET Study. *Journal of Physical Chemistry Letters*. Vol. 10, no. 9 (2019), p. 2024-2030.
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