

## Publikationsliste (Stand März 2024)

### Dr. Klaus Hollemeyer

36

Bashar Reda & Klaus Hollemeyer & Simone Trautmann & Dietrich A. Volmer & Matthias Hannig  
First insights into chlorhexidine retention in the oral cavity after application of different regimens  
Clinical Oral Investigations <https://doi.org/10.1007/s00784-021-03910-y>

35

B Reda, K Hollemeyer, S Trautmann, M **Hannig**  
Determination of chlorhexidine retention in different oral sites using matrix-assisted laser desorption/ionization-time of flight mass spectrometry  
Archives of Oral ..., 2020 - Elsevier

34

NIR-Emitting Gold Nanoclusters–Modified Gelatin Nanoparticles as a Bioimaging Agent in Tissue  
..., A Clasen, G Jung, K **Hollemeyer**... -  
Advanced ..., 2019 - Wiley Online Library

33

Reversible immobilization of a protein to a gold surface through multiple host–guest interactions  
DH Schwarz, WAM Elgaher, K **Hollemeyer**...  
Journal of Materials ..., 2019 –  
[pubs.rsc.org](http://pubs.rsc.org)

Publikationen Hollemeyer

32

Inês Miranda-Santos, Silvia Gramacho, Marta Pineiro, Karla Martinez-Gomez, Michel Fritz, Klaus Hollemeyer, Armindo Salvador, Elmar Heinze  
Mass isotopomer analysis of nucleosides isolated from RNA and DNA using GC-MS  
Anal. Chem., 2015, 87 (1), pp 617–623, DOI: 10.1021/ac503305w

31

Michael P. Storz, Christian Brengel, Elisabeth Weidel, Michael Hoffmann, **Klaus Hollemeyer**, Martin Empting, Anke Steinbach, Rolf Müller,<sup>§</sup> Rolf W. Hartmann  
Biochemical and Biophysical Analysis of PqsD Inhibitors Revealing Contrary Thermodynamic Profiles of Enantiomers and Tight-binding Mechanism  
ACS Chem. Biol. 2013, 8, 2794, 2013, 8, 2794-2801, dx.doi.org/10.1021/cb400530d

30

Jutta Mayer, Karin Denger, Klaus Hollemeyer, David Schleheck, Alasdair M Cook (2012)  
R-Cysteate-nitrogen assimilation by Cupriavidus necator H16 with excretion of 3-sulfolactate: a patchwork pathway.  
Archives of microbiology 07/2012; 194(11):949-57. DOI:10.1007/s00203-012-0825-y

29

Soromani C, Zeng N, Hollemeyer K, Heinze E, Klein MC, Tretter, T, Seaman MNJ, Roemisch K (2012)  
N-acetylation and phosphorylation of Sec complex subunits in the ER membrane  
BMC Cell Biology 13:34

28

## Publikationen Hollemeyer

Krejčík Z, Schleheck D, Hollemeyer K, Cook AM (2012)  
A five-gene cluster involved in utilization of taurine-nitrogen and excretion of sulfoacetaldehyde by *Acinetobacter radioresistens* SH164.  
*Arch Microbiol.* 194:857-63.

27

Hollemeyer K, Altmeyer W, Heinze E, Pitra C. (2012)  
MALDI-TOF Mass Spectrometry combined with multidimensional Scaling, binary hierarchical Cluster Tree and selected diagnostic Masses improves Species Identification of Neolithic Keratin Sequences from Furs of the Tyrolean Iceman Oetzi  
*Rapid Commun Mass Spectrom*, 26:1735–1745

26

Thomas Fritsch und Klaus Hollemeyer (2011)  
Verbreitung spätkeltischer Importamphoren im Umfeld des keltischen Oppidums “Hunnenring” bei Otzenhausen (Kr. St. Wendel, Saarland, BRD)  
*Bull. Soc. Préhist. Luxembourgeoise* 33:75-108

25

Karin Denger, Thomas Huhn, Klaus Hollemeyer, David Schleheck, Alasdair M Cook (2011)

Sulfoquinovose degraded by pure cultures of bacteria with release of C3-organosulfonates: complete degradation in two-member communities.  
*FEMS Microbiology Letters* (Impact Factor: 2.05). 12/2011; 328(1):39-45. DOI:10.1111/j.1574-6968.2011.02477.x

24

Niklas J, Hollemeyer K, Heinze E (2011)

Publikationen Hollemeyer

High throughput phospholipid quantitation in mammalian cells using MALDI-TOF MS with N-trifluoroacetyl-phosphatidylethanolamine as internal standard

Anal Biochem, 419:351–353, DOI: 10.1016/j.ab.2011.08.030.

23

Le Guevel X, Hotzer B, Gregor Jung G, Hollemeyer K, Trouillet V, Schneider M (2011)

Formation of Fluorescent Metal (Au, Ag) Nanoclusters Capped in Bovine Serum Albumin Followed by Fluorescence and Spectroscopy  
J Phys Chem C, 115:10955-10963. DOI: 10.1021/jp111820b

22

Weinitschke S, Hollemeyer K, Kusian B, Bowien B, Smits TH, Cook AM (2010)

Sulfoacetate Is Degraded via a Novel Pathway Involving Sulfoacetyl-CoA and Sulfoacetaldehyde in *Cupriavidus necator* H16.  
J Biol Chem 285:35249-54.

21

Mayer J, Huhn T, Habeck M, Denger K, Hollemeyer K, Cook AM (2010)

2,3-Dihydroxypropane-1-sulfonate degraded by *Cupriavidus pinatubonensis* JMP134: purification of dihydroxypropanesulfonate 3-dehydrogenase.  
Microbiol. 156:1556-64.

20

Zdenek Krejcík, Klaus Hollemeyer, Theo H M Smits, Alasdair M Cook

Isethionate formation from taurine in *Chromohalobacter salexigens*: purification of sulfoacetaldehyde reductase.

## Publikationen Hollemeyer

Microbiology (Impact Factor: 3.06). 05/2010; 156(Pt 5):1547-55. DOI:10.1099/mic.0.036699-0

19

Pföhler C, Hollemeyer K, Heinzle E, Altmeyer W, Graeber S, Müller C, Stark A, Jager S, Tilgen W (2009)

Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry (MALDI-TOF MS): a new tool in diagnostic investigation of nail disorders?

Exp Dermatol, 18:880-2.

18

Hollemeyer K, Altmeyer W, Heinzle E, Pitra C. (2008)

Species identification of Oetzi's clothing with matrix-assisted laser desorption/ionization time-of-flight mass spectrometry based on peptide pattern similarities of hair digests.

Rapid Commun Mass Spectrom 22:2751-67.

17

Zdeněk Krejcík, Karin Denger, Sonja Weinitschke, Klaus Hollemeyer, Václav Paces, Alasdair M Cook, Theo H M Smits Sulfoacetate released during the assimilation of taurine-nitrogen by *Neptuniibacter caesariensis*: purification of sulfoacetaldehyde dehydrogenase.

Archives of Microbiology (Impact Factor: 1.91). 09/2008; 190(2):159-68. DOI:10.1007/s00203-008-0386-2

16

Denger K, Mayer J, Hollemeyer K, Cook A (2008)

Amphoteric surfactant N-oleoyl-N-methyltaurine utilized by *Pseudomonas alcaligenes* with excretion of N-methyltaurine.

FEMS Microbiology Letters 288:112-7.

Publikationen Hollemeyer

15

Mayer J, Denger K, Kaspar K, Hollemeyer K, Smits THM, Huhn T, Cook AM (2008)  
Assimilation of homotaurine-nitrogen by Burkholderia sp. and excretion of sulfopropionate  
FEMS Microbiol Lett 279:77-82. doi:10.1111/j.1574-6968.2007.01014.x

14

Hollemeyer K, Altmeyer W, Heinze E (2007)  
Identification of Furs of Domestic Dog, Raccoon Dog, Rabbit and Domestic Cat by Hair Analysis using MALDI –TOF Mass Spectrometry.  
Spectroscopy Europe 19(2):8-15.

13

Hollemeyer K, Velagapudi VR, Wittmann C, Heinze E (2007)  
Matrix-assisted laser desorption/ionization time-of-flight mass spectrometry for metabolic flux analyses using isotope-labeled ethanol.  
Rapid Commun. Mass Spectrom. 21, 336-342.

12

Mayer J, Denger K, Smits THM, Hollemeyer K, Groth U, Cook A (2006)  
N-Acetyltaurine dissimilated via taurine by *Delftia acidovorans* NAT  
Archives Microbiol. 186:61-7.

11

Weintschke S, Denger K, Smits THM, Hollemeyer K, Cook AM (2006)  
The sulfonated osmolyte N-methyltaurine is dissimilated by *Alcaligenes faecalis* and by *Paracoccus versutus* with release of methylamine.

Publikationen Hollemeyer

Microbiology 152:1179-1186.

10

Rein U, Gueta R, Denger K, Ruff J, Hollemeyer K, Cook A. (2005)  
Dissimilation of cysteate via 3-sulfolactate sulfo-lyase and a sulphate exporter in *Paracoccus pantotrophus* NKNCYSA.  
Microbiology, 151:737-47.

9

Hollemeyer K, Jager S, Altmeyer W, Heinzle E. (2005)  
Proteolytic peptide patterns as indicators for fungal infections and nonfungal affections of human nails measured by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry.  
Anal Biochem. 338:326-31.

8

Denger, K., Weinitzschke S., Hollemeyer, K. , Cook, A.M. (2004)  
Sulfoacetate generated by *Rhodopseudomonas palustris* from taurine.  
Arch. Microbiol., 182:254-258.

7

Mathur, S., Hassel, M., Steiner, F., Hollemeyer, K., Hartmann, R.W. (2003)  
Development of a New Approach for Screening Combinatorial Libraries Using MALDI-TOF-MS and HPLC-ESI-MS/MS  
J. Biomol. Screening 8, 136-148

6

Hollemeyer, K., Heinzle, E., Tholey, A. (2002)

Identification of oxidized methionine residues in peptides containing two methionine residues by derivatization and MALDI-TOF mass spectrometry.

Proteomics 2, 1524-1531.

5

Hollemeyer, K., Altmeyer, W., Heinzle, E. (2002)

Identification and quantification of feathers, down and hair of avian and mammalian origin using MALDI-TOF- mass spectrometry.

Anal. Chem., 74, 5960-5968, 2002

4

Tholey, A., Wittmann, C., Kang, M.-J., Bungert, D., Hollemeyer, K., Heinzle, E. (2002)

Derivatization of small biomolecules for optimized matrix-assisted laser desorption/ionization mass spectrometry.

J. Mass Spectrom. 37, 963-973

3

Speicher A., Hollemeyer K., Heinzle E. (2001)

Rapid detection of chlorinated bisbibenzyls in *Bazzania trilobata* using MALDI-TOF Mass spectrometry.

Phytochemistry 57, 303-306.

2

Speicher, A., Hollemeyer, K., Heinzle, E. (2001)

Publikationen Hollemeyer

Rapid detection of multiple chlorinated bis(bibenzyls) in bryophyte crude extracts using laser desorption/ionization time-of-flight mass spectrometry.

Rapid Commun. Mass Spectrom. 2001, 15, 124-127.

1

Roethlisberger, P., Iida-Tanaka, N., Hollemeyer, K., Heinzle, E., Ishizuka, I., Fischer, W. (2000)

Unique poly(glycerophosphate)lipoteichoic acid and the glycolipids of a Streptococcus sp. closely related to Pneumococcus.

Eur. J. Biochem. 267, 5520-5530.