

# Thisbe K. Lindhorst, Publications \* † ‡

## Diploma Thesis

Synthese von L-Fucose-Derivaten zum Aufbau desoxygenerter Fucosylphosphate, Westfälische Wilhelms-Universität Münster, 1988.

## Doctoral Thesis

Die Synthese von L-Fucose-Derivaten als potentielle Inhibitoren und Modulatoren des GDP- $\beta$ -L-Fucose-Stoffwechsels, Universität Hamburg, 1991.

## Habilitationsschrift

Kohlenhydrat-Dendrimere, Universität Hamburg, 1998.

1990-1994

## En Route to Thromboxane Compounds from Carbohydrates, I Synthesis of the Unsaturated Sugar Precursors PhD

I. Pelyvás, Th. K. Lindhorst, J. Thiem

*Liebigs Ann. Chem.* **1990**, 761-769.

## The Synthesis of 3-Deoxy-L-fucose (3,6-Dideoxy-L-xylo-hexose) PhD

Th. K. Lindhorst, J. Thiem

*Liebigs Ann. Chem.* **1990**, 1237-1241.

## Synthesis of 4-deoxy and 4-deoxy-4-halogeno derivatives of L-fucose as potential enzyme inhibitors PhD

Th. K. Lindhorst, J. Thiem

*Carbohydr. Res.* **1991**, 209, 119-129.

## Merck-Schuchardt Lectureship 1990 non peer rev. PhD

### Vortragsreise von Prof. H. C. Heathcock, Berkeley: "Mannich Magic"

W. Klaffke, Th. K. Lindhorst

*Kontakte* **1991**, 1, 48-52.

## Regioselective Acylation of Carbohydrates with 1-Acyloxy-1H-benzotriazoles PhD

I. F. Pelyvás, Th. K. Lindhorst, H. Streicher, J. Thiem

*Synthesis* **1991**, 1015-1018.

## Liquid Crystalline 6-Deoxy Glycosides PhD

V. Vill, Th. K. Lindhorst, J. Thiem

*J. Carbohydr. Chem.* **1991**, 10, 771-786.

## Synthesis and properties of sulfated alkyl glycosides PhD

Th. Böcker, Th. K. Lindhorst, J. Thiem, V. Vill

*Carbohydr. Res.* **1992**, 230, 245-256.

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\* Papers originating from my PhD (Prof. Thiem group) or Postdoc (Prof. Withers group) period, respectively, are marked accordingly.

† Non peer-reviewed papers are specifically indicated.

‡ Reviews and book chapters are denoted accordingly. (Book reviews and conference reports are not listed.)

**En Route to Thromboxane Compounds from Carbohydrates, II  
Halolactonization of 4-C-Branched Alkyl Hex-2-enopyranosides** PhD

I. F. Pelyvás, Th. K. Lindhorst, G. Batta, J. Thiem  
*Liebigs Ann. Chem.* **1992**, 33-37.

**Jahresrückblick "Kohlenhydratchemie 1991"** non peer rev. PhD

Th. K. Lindhorst  
*Nachr. Chem. Techn. Lab.* **1992**, 40, 166-171.

**Synthetic approaches to 2-deoxyglycosyl phosphates** PhD

J. Niggemann, Th. K. Lindhorst, M. Walfort, L. Laupichler, H. Sajus, J. Thiem  
*Carbohydr. Res.* **1993**, 246, 173-183.

**Synthesis of GDP 4,6-Dideoxy- $\beta$ -L-xylohexopyranose (GDP-4-deoxy- $\beta$ -L-fucose)**

B. Leon, Th. K. Lindhorst, A. Rieks-Everdiking, W. Klaffke  
*Synthesis* **1994**, 689-691.

**The Acid/Base Catalyst in the Exoglucanase/Xylanase from *Cellulomonas fimi* Is  
Glutamic Acid 127: Evidence from Detailed Kinetic Studies of Mutants** Postdoc

A. M. MacLeod, Th. K. Lindhorst, S. G. Withers, R. A. J. Warren  
*Biochemistry* **1994**, 33, 6371-6376.

1995

**Syntheses of 4'-deoxy- $\alpha$ -maltosyl fluoride and 4''-deoxy- $\alpha$ -maltotriosyl fluoride as  
probes of  $\alpha$ -glucanotransferase mechanisms** Postdoc

Th. K. Lindhorst, C. Braun, S. G. Withers  
*Carbohydr. Res.* **1995**, 268, 93-106.

**Trends in Organischer Chemie: Kohlenhydratchemie** non peer rev.

Th. K. Lindhorst  
*Nachr. Chem. Techn. Lab.* **1995**, 43, 158-163.

**Solvent-free Preparation of Glycosyl Isothiocyanates**

Th. K. Lindhorst, C. Kieburg  
*Synthesis* **1995**, 1228-1230.

1996

**Identification of Asp 549 as the Catalytic Nucleophile of Glycogen-Debranching  
Enzyme via Trapping of the Glycosyl-Enzyme Intermediate** Postdoc

C. Braun, Th. K. Lindhorst, N. Madsen, S. G. Withers  
*Biochemistry* **1996**, 35, 5458-5463.

**Glyco coating of Oligovalent Amines. Synthesis of Thiourea-Bridged Cluster  
Glycosides from Glycosyl Isothiocyanates**

Th. K. Lindhorst, C. Kieburg  
*Angew. Chem.* **1996**, 108, 2083-2086; *Angew. Chem. Int. Ed. Engl.* **1996**, 35, 1953-1956.

**Glycodendrimere** non peer rev.

Th. K. Lindhorst  
*Nachr. Chem. Techn. Lab.* **1996**, 44, 1073-1079.

1997

**An Unusual Side Reaction in the Rearrangement of 3,4,6-Tri-O-acetyl-1,2-O-(allyloxyethylidene)- $\beta$ -D-mannopyranose with TMS-Triflate: Formation of an  $\alpha$ -(1 $\rightarrow$ 2)-Linked Disaccharide**

Th. K. Lindhorst

*J. Carbohydr. Chem.* **1997**, *16*, 237-243.

**Inhibition of L-Fucokinase from Rat Liver by L-Fucose Analogues *in vitro***

R. Zeitler, S. Danneschewski, Th. K. Lindhorst, J. Thiem, W. Reutter

*J. Enzyme Inhibition* **1997**, *11*, 265-273.

**Synthesis of Carbon-Backbone-Elongated GDP-L-Fucose Derivatives as Substrates for Fucosyltransferase-Catalysed Reactions**

C. Vogel, C. Bergemann, A.-J. Ott, Th. K. Lindhorst, J. Thiem, W. V. Dahlhoff, C. Hällgren, M. M. Palcic, O. Hindsgaul

*Liebigs Ann./Recueil* **1997**, 601-612.

**Glycodendrimer Synthesis Without Using Protecting Groups**

C. Kieburg, Th. K. Lindhorst

*Tetrahedron Lett.* **1997**, *38*, 3885-3888.

**Biotransformation of Ergot Alkaloids by Haloperoxidase from *Streptomyces aureofaciens*: Stereoselective Acetoxylation and Propionoxylation**

V. Křen, L. Kawuloková, P. Sedmera, M. Polasek, Th. K. Lindhorst, K.-H. van Pée

*Liebigs Ann./Recueil* **1997**, 2379-2383.

**A New Type of Carbohydrate Clustering: Synthesis of a Pentavalent Glycocluster Based on a Carbohydrate Core**

C. Kieburg, M. Dubber, Th. K. Lindhorst

*Synlett* **1997**, 1447-1449.

1998

**The Syntheses of  $\delta$ -NCS-Butyl  $\alpha$ -L-fucosides and fucobiosides and their Clustering to Triantennary Glycomimetics**

Th. K. Lindhorst, M. Ludewig, J. Thiem

*J. Carbohydr. Chem.* **1998**, *17*, 1131-1149.

**Enzymatic Glycosylation of Branched Symmetrical Non-carbohydrate Polyols**

C. Kieburg, Th. K. Lindhorst, V. Křen

*J. Carbohydr. Chem.* **1998**, *17*, 1239-1247.

**Inhibition of the type 1 fimbriae-mediated adhesion of *Escherichia coli* to erythrocytes by multiantennary  $\alpha$ -mannosyl clusters: The effect of multivalency**

Th. K. Lindhorst, C. Kieburg, U. Krallmann-Wenzel

*Glycoconjugate J.* **1998**, *15*, 605-613.

GlcNAc-terminated glycodendrimers form defined precipitates with the soluble dimeric receptor of rat natural killer cells, sNKR-P1A. K. Bezouška\*, V. Křen, C. Kieburg, Th. K. Lindhorst, *FEBS Lett.* **1998**, *426*, 243-247.

**Rejected** in 2013 due to K. Bezouška's misconduct.

**$\alpha$ -Mannosyl Clusters Scaffolded on Azamacrocycles: Synthesis and Inhibitory Properties in the Adhesion of Type 1 Fimbriated *Escherichia coli* to Erythrocytes**

B. König, T. Fricke, A. Waßmann, U. Krallmann-Wenzel, Th. K. Lindhorst  
*Tetrahedron Lett.* **1998**, 39, 2307-2310.

**Structure Analysis of Trivalent Glycoclusters by Post-source Decay Matrix-assisted Laser Desorption/Ionization Mass Spectrometry**

V. Havlíček, C. Kieburg, P. Novák, K. Bezouška, Th. K. Lindhorst  
*J. Mass Spectrom.* **1998**, 33, 591-598.

**Synthesis of chiral carbohydrate-centered dendrimers**

M. Dubber, Th. K. Lindhorst  
*Chem. Commun.* **1998**, 1265-1266.

**Synthesis of octopus glycosides: core molecules for the construction of glycoclusters and carbohydrate-centered dendrimers**

M. Dubber, Th. K. Lindhorst  
*Carbohydr. Res.* **1998**, 310, 35-41.

**Multivalent ligands for the mannose-specific lectin on type 1 fimbriae of *Escherichia coli*: Syntheses and testing of trivalent  $\alpha$ -D-mannoside clusters**

S. Kötter, U. Krallmann-Wenzel, S. Ehlers, Th. K. Lindhorst  
*J. Chem. Soc., Perkin Trans. 1* **1998**, 2193-2200.

**Effect of *p*-Substitution of Aryl  $\alpha$ -D-mannosides on Inhibiting Mannose-sensitive Adhesion of *Escherichia coli* -Syntheses and Testing**

Th. K. Lindhorst, S. Kötter, J. Kubisch, U. Krallmann-Wenzel, S. Ehlers, V. Křen  
*Eur. J. Org. Chem.* **1998**, 1669-1674.

**Synthese und Anwendungsmöglichkeiten multivalenter Glykokonjugate**

Th. K. Lindhorst in:  
*Jahrbuch der Akademie der Wissenschaften zu Göttingen*, Vandenhoeck & Ruprecht in Göttingen **1998**, 153-155.

1999

**Multivalent neoglycoconjugates for the inhibition of mannose-sensitive carbohydrate-protein interactions**

Th. K. Lindhorst in: *Bioorganic Chemistry – Highlights and New Aspects*, U. Diederichsen, Th. K. Lindhorst, L. Wessjohann, B. Westermann (Eds.), Wiley-VCH, Weinheim **1999**, pp 133-149.

**Enzymatic synthesis of *p*-nitrophenyl  $\beta$ -chitobioside**

J. Kubisch, L. Weignerová, S. Kötter, Th. K. Lindhorst, P. Sedmera, V. Křen  
*J. Carbohydr. Chem.* **1999**, 18, 975-984.

**Synthesis and anomeric stability of (1 $\rightarrow$ 6)-thiourea-linked pseudooligosaccharides**

J. M. Benito, C. Ortiz Mellet, K. Sadalapure, Th. K. Lindhorst, J. Defaye, J. M. Carcía Fernández  
*Carbohydr. Res.* **1999**, 320, 37-48.

**Synthesis of selectively functionalized carbosilane dendrimers with a carbohydrate core**

M. M. K. Boysen, Th. K. Lindhorst  
*Org. Lett.* **1999**, *1*, 1925-1927.

2000

**An unusual side reaction in the perallylation of a glucoside brought about by sodium hydride**

M. M. K. Boysen, Th. K. Lindhorst  
*J. Carbohydr. Chem.* **2000**, *19*, 407-412.

**Struktur und Funktion von Kohlenhydraten** non peer rev.

Th. K. Lindhorst review  
*Chem. Unserer Zeit* **2000**, *34*, 38-52.

**Wenn Zucker-Attrappen Bakterien zum Narren halten** non peer rev.

Th. K. Lindhorst  
*Spektrum der Wissenschaft* **2000**, 16-20.

**Cluster Mannosides as Inhibitors of Type 1 Fimbriae-Mediated Adhesion of *Escherichia coli*: Pentaerythritol Derivatives as Scaffolds**

Th. K. Lindhorst, M. Dubber, U. Krallmann-Wenzel, S. Ehlers  
*Eur. J. Org. Chem.* **2000**, 2027-2034.

**Glucose-based AB<sub>2</sub>-Building Blocks for the Construction of Branched Glycopeptidomimetics**

C. Kieburg, K. Sadalpure, Th. K. Lindhorst  
*Eur. J. Org. Chem.* **2000**, 2035-2040.

**A General Entry into Glycopeptide "Dendrons"**

K. Sadalpure, Th. K. Lindhorst  
*Angew. Chem.* **2000**, *112*, 2066-2069; *Angew. Chem. Int. Ed.* **2000**, *39*, 2010-2013.

**Synthesis of Carbohydrate-centered Oligosaccharide Mimetics Equipped with a Functionalized Tether**

M. Dubber, Th. K. Lindhorst  
*J. Org. Chem.* **2000**, *65*, 5275-5281.

2001

**Exploration of Reductive Amination for the Synthesis of Cluster Glycosides**

M. Dubber, Th. K. Lindhorst  
*Synthesis* **2001**, 327-330.

**Struktur und Funktion von Kohlenhydraten** non peer rev.

Th. K. Lindhorst  
*Naturwissenschaften im Unterricht Chemie* **2001**, *62*, 9-12.

**A Modular System for the Synthesis of Multivalent Oligosaccharide Mimetics**

A. Patel, Th. K. Lindhorst  
*J. Org. Chem.* **2001**, *66*, 2674-2680.

**Trivalent  $\alpha$ -D-mannoside clusters as inhibitors of type-1 fimbriae-mediated adhesion of *Escherichia coli*: structural variation and biotinylation**

Th. K. Lindhorst, S. Kötter, U. Krallmann-Wenzel, S. Ehlers  
*J. Chem. Soc., Perkin Trans. 1* **2001**, 823-831.

**Glycodendrimers** review

N. Röckendorf, Th. K. Lindhorst  
*Top. Curr. Chem.* **2001**, 217, 201-238.

**Glycodendrimeric ligands of C-type lectin receptors as therapeutic agents in experimental cancer**

M. Pospíšil, L. Vannucci, A. Fišerová, K. Krausová, O. Horváth, V. Křen, F. Mosca,  
Th. K. Lindhorst, K. Sadalapure, K. Bezouška  
*Adv. Exp. Med. Biol.* **2001**, 495, 343-347.

**Corrected** in 2013 due to K. Bezouška's misconduct.

**Binding inhibition of type 1 fimbriae to human granulocytes: A flow cytometric inhibition assay using trivalent cluster mannosides**

A. K. Horst, S. Kötter, Th. K. Lindhorst, A. Ludwig, E. Brandt, C. Wagener  
*Med. Microbiol. Immunol.* **2001**, 190, 145-149.

**Synthesis of a Carbohydrate-Centered C-Glycoside Cluster**

M. Dubber, Th. K. Lindhorst  
*J. Carbohydr. Chem.* **2001**, 20, 755-760.

**Trehalose-Based Octopus Glycosides for the Synthesis of Carbohydrate-Centered PAMAM Dendrimers and Thiourea-Bridged Glycoclusters**

M. Dubber, Th. K. Lindhorst  
*Org. Lett.* **2001**, 3, 4019-4022.

**Antitumor and Antimicrobial Glycoconjugates** book chapter

Th. K. Lindhorst in: *Glycoscience, Chemistry and Chemical Biology*, Vol. III, B. Fraser-Reid, K. Tatsuta, J. Thiem (Eds.), Springer, Berlin **2001**, pp 2393-2440.

**Complex Encounters at the Macrophage-Mycobacterium Interface: Studies on the Role of the Mannose Receptor and CD14 in experimental Infection Models with *Mycobacterium avium***

N. Reiling, K. Klug, U. Krallmann-Wenzel, R. Laves, S. M. Goyert, M. E. Taylor,  
Th. K. Lindhorst, S. Ehlers  
*Immunobiol.* **2001**, 204, 558-571.

2002

**Synthesis of "Mixed Type" Oligosaccharide Mimetics Based on a Carbohydrate Scaffold**

A. Patel, Th. K. Lindhorst  
*Eur. J. Org. Chem.* **2002**, 79-86.

**Artificial Multivalent Sugar Ligands to Understand and Manipulate Carbohydrate-Protein Interactions** review

Th. K. Lindhorst  
*Top. Curr. Chem.* **2002**, 218, 201-235.

### **Reactivity Tournament of Isothiocyanato-Functionalized Saccharides with 1,6-Diamino-3,6-oxaocane**

M. Walter, Th. K. Lindhorst

*Monatshefte für Chemie, Chemical Monthly*, **2002**, 133, 473-483 (cover picture).

### **Molecular Dynamics Simulations of Glycoclusters and Glycodendrimers**

C.-W. von der Lieth, M. Frank, Th. K. Lindhorst

*Rev. Mol. Biotech.* **2002**, 90, 311-337.

### **Dendrimers** editorial

Th. K. Lindhorst, S. Dieckmann

*J. Biotechnol.* **2002**, 90, 157-158.

### **Trivalent Cluster Mannosides with Aromatic Partial Structure as Ligands for the Type 1 Fimbrial Lectin of *Escherichia coli***

N. Röckendorf, O. Sperling, Th. K. Lindhorst

*Austr. J. Chem.* **2002**, 55, 87-93 (cover picture).

## 2003

### **"Sugaring" carbosilane dendrimers via hydrosilylation**

M. Boysen, Th. K. Lindhorst

*Tetrahedron* **2003**, 59, 3895-3898.

### **Effects of *N*-acetyl-glucosamine-coated glycodendrimers as biological modulators in the B16F10 melanoma model *in vivo*.**

L. Vannucci\*, A. Fišerová, K. Sadalpure, Th. K. Lindhorst, M. Kuldová, P. Rossmann, O.

Horváth, V. Křen, P. Krist, K. Bezouška, M. Luptovcová, F. Mosca, M. Pospíšil

*Int. J. Oncology* **2003**, 23, 285-296.

**Corrected** in 2013 due to K. Bezouška's misconduct.

### **Glycerol and Glycerol Glycol Glycodendrimers**

M. M. K. Boysen, K. Elsner, O. Sperling, Th. K. Lindhorst

*Eur. J. Org. Chem.* **2003**, 4376-4386.

## 2004

### **Fluorescent Labelled Thiourea-Bridged Glycodendrons**

P. Krist, L. Vannucci, M. Kuzma, P. Man, K. Sadalpure, A. Patel, K. Bezouška, M. Pospíšil,

L. Petruš, Th. K. Lindhorst, V. Křen\*

*ChemBioChem* **2004**, 5, 445-452.

**Corrected** in 2013 due to K. Bezouška's misconduct.

### **Functional Evaluation of Carbohydrate-Centred Glycoclusters by Enzyme-Linked Lectin Assay: Ligands for Concanavalin A**

M. Köhn, J. M. Benito, C. Ortiz Mellet, Th. K. Lindhorst, J. M. García Fernández

*ChemBioChem* **2004**, 5, 771-777.

### **Glyco-SAMs as Glycocalyx Mimetics:**

### **Synthesis of L-Fucose and D-Mannose-Terminated Building Blocks**

M. Kleinert, N. Röckendorf, Th. K. Lindhorst

*Eur. J. Org. Chem.* **2004**, 3931-3940.

**Glucuronic Acid Derivatives as Branching Units for the Synthesis of Glycopeptide Mimetics**

N. Röckendorf, Th. K. Lindhorst  
*J. Org. Chem.* **2004**, *69*, 4441-4444.

2006

**Regioselective Phthalimidopropyl-Modification of Carbohydrates in One Step**

C. Heidecke, Th. K. Lindhorst  
*Synthesis* **2006**, 161-165.

**Synthesis of Cluster Mannosides Carrying a Photolabile Diazirine Group**

M. Walter, M. Wiegand, Th. K. Lindhorst  
*Eur. J. Org. Chem.* **2006**, 719-728.

**A Simple Method for the Preparation of Glycosyl Isothiocyanates**

M. Kühne, Z. Györgydeák, Th. K. Lindhorst  
*Synthesis* **2006**, 949-951.

**A Modular System for the Preparation of Diazirine-Labeled Mannose Derivatives Using Thiourea Bridging**

M. Walter, Th. K. Lindhorst  
*Synthesis* **2006**, 952-958.

**Chromophor-supported Purification in Parallel Synthesis (CSP)**

I. Aumüller, Th. K. Lindhorst  
*Eur. J. Org. Chem.* **2006**, 1103-1108 (cover picture).

**Multivalent glycomimetics: Synthesis of nonavalent mannoside clusters with variation of spacer properties**

A. Patel, Th. K. Lindhorst  
*Carbohydr. Res.* **2006**, *341*, 1657-1668 (special issue).

**Synthesis of Photoactive  $\alpha$ -Mannosides and Mannosyl Peptides and Their Evaluation for Lectin Labeling**

M. Wiegand, Th. K. Lindhorst  
*Eur. J. Org. Chem.* **2006**, 4841-4851.

**Oligomannoside mimetics by glycosylation of 'octopus glycosides' and their investigation as inhibitors of type 1 fimbriated-mediated adhesion of *Escherichia coli***

M. Dubber, O. Sperling, Th. K. Lindhorst  
*Org. Biomol. Chem.* **2006**, *4*, 3901-3912 (inside cover).

**Evaluation of the carbohydrate recognition domain of the bacterial adhesin FimH: design, synthesis and binding properties of mannoside ligands**

O. Sperling, A. Fuchs, Th. K. Lindhorst  
*Org. Biomol. Chem.* **2006**, *4*, 3913-3922 (inside cover).

**Synthesis of Functionalized Amphiphilic Glycoconjugates and Glycoclusters**

M. Dubber, A. Patel, K. Sadalapure, I. Aumüller, Th. K. Lindhorst  
*Eur. J. Org. Chem.* **2006**, 5357-5366.

2007

**Functionalization of oligosaccharide mimetics and multimerization using squaric diester-mediated coupling**

O. Sperling, M. Dubber, Th. K. Lindhorst

*Carbohydr. Res.* **2007**, *342*, 696-703.

**Synthesis of new polyether glycodendrons as oligosaccharide mimetics**

K. Elsner, M. M. K. Boysen, Th. K. Lindhorst

*Carbohydr. Res.* **2007**, *342*, 1715-1725.

**Iterative Synthesis of Spaced Glycodendrons as Oligomannoside Mimetics and Evaluation of Their Antiadhesive Properties**

C. Heidecke, Th. K. Lindhorst

*Chem. Eur. J.* **2007**, *13*, 9056-9067.

2008

**Differential effects of oligosaccharides on the hydration of simple cations**

M. Eriksson, Th. K. Lindhorst, B. Hartke

*J. Chem. Phys.* **2008**, *128*, 105105 (10 pages).

(Selected for the March 15, 2008 issue of Virtual Journal of Biological Physics Research.)

**The hydration features of carbohydrate determinants of Lewis antigens**

M. Reynolds, A. Fuchs, Th. K. Lindhorst, S. Pérez

*Mol. Simulat.* **2008**, *34*, 447-460.

**Antitumor and Antimicrobial Glycoconjugates** book chapter, 2<sup>nd</sup> ed

Th. K. Lindhorst in: *Glycoscience, Chemistry and Chemical Biology*, 2<sup>nd</sup> completely revised edition, Vol. III, B. O. Fraser-Reid, K. Tatsuta, J. Thiem, G. Coté, S. Flitsch, Y. Ito, H. Kondo, S. Nishimura, B. Yu (Eds.), Springer, Berlin **2008**, pp 2545-2587.

**A modular approach for the construction and modification of glyco-SAMs utilizing 1,3-dipolar cycloaddition**

M. Kleinert, T. Winkler, A. Terfort, Th. K. Lindhorst

*Org. Biomol. Chem.* **2008**, *6*, 2118-2132.

**Synthesis of glycocluster peptides**

H. A. Shaikh, F. D. Sönnichsen, Th. K. Lindhorst

*Carbohydr. Res.* **2008**, *343*, 1665-1674 (special issue).

**Bakterieller Adhäsion auf der Spur** non peer rev.

M. Hartmann, Th. K. Lindhorst

*BIOforum* **2008**, *5*, 45-47.

**Wenn Bakterien kleben bleiben** non peer rev.

M. Hartmann, Th. K. Lindhorst

*Nachrichten aus der Chemie* **2008**, *56*, 1115-1119 (cover picture).

2009

**Ein Platz an der Sonne** non peer rev.

Th. K. Lindhorst, M. Hartmann  
*labor&more* **2009**, *1*, 40-41

**Land of Plenty** engl. transl.

Th. K. Lindhorst, M. Hartmann  
*lab&more* **2009**, *1*, 24-25.

**Ligand-Rezeptor-Wechselwirkungen auf den Punkt gebracht** non peer rev.

Th. K. Lindhorst, M. Märten  
*BIOforum* **2009**, *2*, 32-34.

**Reductive Amination of the Lysine N<sup>ε</sup>-Amino Group Leads to a Bivalent Glyco-Amino Acid Building Block Suited for SPPS**

A. Schierholt, Th. K. Lindhorst  
*J. Carbohydr. Chem.* **2009**, *28*, 191-197.

**Coloring Carbohydrates: Investigation of Azulene Derivatives as Blue Protecting Groups**

I. B. Aumüller, Th. K. Lindhorst  
*J. Carbohydr. Chem.* **2009**, *28*, 330-347

**Utilizing Staudinger Ligation for the Synthesis of Glycoamino Acid Building Blocks and Other Glycomimetics**

A. Schierholt, H. A. Shaikh, J. Schmidt-Lassen, Th. K. Lindhorst  
*Eur. J. Org. Chem.* **2009**, 3783-3789.

**Click on SAM** non peer rev.

Th. K. Lindhorst  
*Nachrichten aus der Chemie* **2009**, *57*, 742-747.

**Glycoscience and Microbial Adhesion** preface

Th. K. Lindhorst, S. Oscarson  
*Top. Curr. Chem.* **2009**, *288*, ix-x.

**Specialist Periodical Reports Carbohydrate Chemistry** preface

A. Pilar Rauter, Th. K. Lindhorst  
*Carbohydr. Chem.* **2009**, *35*, 7-8.

**Überall regt sich Bildung und Streben** editorial

Th. K. Lindhorst  
*Nachrichten aus der Chemie* **2009**, *57*, 959.

2010

**A kit for the investigation of live *Escherichia coli* cell adhesion to glycosylated surfaces**

M. Hartmann, A. K. Horst, P. Klemm, Th. K. Lindhorst  
*Chem. Commun.* **2010**, *46*, 330-332.  
(Selected for RSC's Highlights in Chemical Biology supplement).

**Glyco-SAMs by 'Dual Click': Thiourea-bridged Glyco-OEG Azides for Cycloaddition on Surfaces**

C. Grabosch, M. Kleinert, Th. K. Lindhorst  
*Synthesis* **2010**, 828-836.

## **Cysteine-Based Mannoside Glycoclusters: Synthetic Routes and Antiadhesive Properties**

A. Schierholt, M. Hartmann, K. Schwekendiek, Th. K. Lindhorst  
*Eur. J. Org. Chem.* **2010**, 3120-3128.

## **Glycocluster Synthesis by Native Chemical Ligation**

J. Wehner, Th. K. Lindhorst  
*Synthesis* **2010**, 3070-3082.

## **Understanding Bacterial Adhesion** non peer rev.

M. Hartmann, Th. K. Lindhorst  
*G.I.T. Laboratory Journal Europe* **2010**, 14 (5-6), 32-34.

## **A bivalent glycopeptide to target two putative carbohydrate binding sites on FimH**

Th. K. Lindhorst, K. Bruegge, A. Fuchs, O. Sperling  
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