



Complete List of Publications

Number of publications: > 700

Number of citations: > 34.000

H-Index: 92

H. Kunz, H. Waldmann	1,3-Dithian-2-yl-methylester als Zweistufenschutzgruppe für die Carboxylfunktion bei der Peptidsynthese	Angew. Chem.	1983	95	47
H. Waldmann, H. Kunz	Allylester als selektiv abspaltbare Carboxylschutzgruppen in der Peptid- und N-Glycopeptidsynthese	Liebigs Ann. Chem.	1983		1712
H. Kunz, H. Waldmann	Die Allylgruppe als selektiv abspaltbare Carboxyl- Schutzgruppe zur Synthese empfindlicher O-Glycopeptide	Angew. Chem.	1984	96	49
H. Kunz, H. Waldmann	Synthesis of the Glycopeptide Partial Sequence A ⁸⁰ -A ⁸⁴ of Human Fibroblast Interferon	Helv. Chim. Acta	1985	68	283
H. Kunz, H. Waldmann	Directed Stereoselective Synthesis of α - and β -N-Acetyl-Neuraminic Acid-Galactose Disaccharides Using 2-Chloro- and 2-Fluoro Derivatives of Neuraminic Acid Allyl Ester	J. Chem. Soc. Chem. Commun.	1985		638
H. Kunz, H. Waldmann, C. Unverzagt	The Allyl Ester as a Temporary Protecting Group for the β -Carboxy Function of Aspartic Acid	Int. J. Peptide Protein Res.	1985	26	493
H. Kunz, H. Waldmann	Aufbau disaccharidischer N-Glycopeptide - Synthese der Verknüpfungsregion der Transmembran-Neuraminidase eines Influenza Virus	Angew. Chem.	1985	97	885
H. Kunz, H. Waldmann, C. Unverzagt	Synthesis of Glycopeptides Using the Allyl Ester and the Allyloxycarbonyl Group as Protecting Functions	Peptides 1986, Ed. D. Theodoropoulos, W. de Gruyter, Berlin	1986		615
M. D. Bednarski, H. Waldmann, G. M. Whitesides	Aldolase-Catalyzed Synthesis of Complex C8 and C9 Monosaccharides	Tetrahedron Lett.	1986	27	5807
H. Waldmann, D. Gygax, M. D.	The Enzymic Utilization of Sucrose in the Synthesis of Amylose and	Carbohydr. REs.	1986	157	C4-C7



Bednarski, W. R. Shangraw, G. M. Whitesides	Derivatives of Amylose, Using Phosphorylases				
A. Akiyama, M. D. Bednarski, M.-J. Kim, E. S. Simon, H. Waldmann, G. M. Whitesides	Enzymes in Organic Synthesis	Chem. Brit.	1987	23	645
H. Waldmann, G. M. Whitesides	Enzymes in Organic Synthesis	Ullmanns Encyclopedia of Industrial Chemistry, 5th. Ed., Vol A9, Verlag Chemie, Weinheim	1987		341
N. Bischofberger, H. Waldmann, T. Saito, E. S. Simon, W. Lees, M. D. Bednarski, G. M. Whitesides	Synthesis of Analogues of 1,3-Dihydroxyacetone Phosphate and Glyceraldehyde-3- Phosphate for Use in Studies of Fructose-1,6-Diphosphate Aldolase	J. Org. Chem.	1988	53	3457
A. Akiyama, M. Bednarski, M.-J. Kim, E. S. Simon, H. Waldmann, G. M. Whitesides	Enzymes in Organic Synthesis	CHEMTECH	1988		627
H. Waldmann, H. Kunz	1,3-Dithian-2-yl-methyl Esters as Carboxy Protecting Groups in the Synthesis of N-Glycopeptides	J. Org. Chem.	1988	53	4172
H. Kunz, H. Waldmann, U. Klinkhammer	The Allyl Ester as Carboxy Protecting Group in the Stereoselective Construction of Neuraminic Acid Galactose	Helv. Chim. Acta	1988	71	1868
H. Waldmann	Aminosäuremethylester als chirale Auxiliare in Aza-Diels-Alder-Reaktionen in wässriger Lösung	Angew. Chemie	1988	100	307
H. Waldmann	The Use of Penicillin Acylase for Selective N-Terminal Deprotection in Peptide Synthesis	Tetrahedron Lett.	1988	29	1131
H. Waldmann	S)-Proline Benzyl Ester as Chiral Auxiliary in Lewis Acid Catalyzed Diels-Alder Reactions	J. Org. Chem.	1988	53	6133
H. Waldmann	Der Phenylacetyl-(PhAc)-Rest als enzymatisch ablösbare Schutzgruppe	Liebigs Ann. Chem.	1988		1175



für Peptide und Kohlenhydrate:
 Selektive Schutzgruppenabspaltungen
 mit Penicillin Acylase

H. Waldmann	The Use of Penicillin Acylase for Selective N-Terminal Deprotection in Peptide Synthesis	Peptides 1988, W. de Gruyter, Berlin	1989		272
H. Kunz, S. Friedrich-Bochnitschek, H. Waldmann und C. Unverzagt	The Allyloxycarbonyl (Aloc) Group and Allyl Esters as Protecting Functions in the Synthesis of Peptides and Glycopeptides	Chemistry of Peptides and Proteins, Vol. 4, S. 119, Attempto Verlag, Tübingen	1989		
H. Kunz, H. Waldmann, J. März	Synthese von N-Glycopeptid-Partialstrukturen der Verknüpfungsregion sowohl der Transmembran-Neuraminidase eines Influenza-Virus als auch des Faktors B des menschlichen Komplementsystems	Liebigs Ann. Chem.	1989		45
S. Friedrich-Bochnitschek, H. Waldmann, H. Kunz	Allyl Esters as Carboxy Protecting Groups in the Synthesis of O-Glycopeptides	J. Org. Chem.	1989	54	751
M. Bednarski, E. S. Simon, N. Bischofberger, W.-D. Fessner, M.-J. Kim, W. Lees, T. Saito, H. Waldmann, G. M. Whitesides	Rabbit Muscle Aldolase as a Catalyst in Organic Synthesis	J. Am. Chem. Soc.	1989	111	627
H. Waldmann	Asymmetrische Hetero-Diels-Alder-Reaktionen in wässriger Lösung unter Verwendung von Aminosäureestern als chiralen Auxiliaren	Liebigs Ann. Chem.	1989		231
H. Waldmann	A New Access to Chiral 2-Furylcarbinols by Enantioselective Hydrolysis with Penicillin Acylase	Tetrahedron Lett.	1989	30	3057
H. Waldmann, M. Dräger	On the Enhancement of Stereoselection by Cooperation Between Chiral Auxiliaries. Asymmetric Diels-Alder Reactions with Fumaric Acid Bis((S)-Proline Benzyl Ester) Amide	Tetrahedron Lett.	1989	30	4227
H. Kunz, C. Unverzagt, B. Dombo, W. Kosch,	Synthesis of Glycopeptide Partial Structures of Virus Coat Glycoproteins	Chemistry of Peptides and Proteins, Vol. 5	1989		



H. Waldmann

H. Kunz, P. Wernig, M. Schilling, J. März, C. Unverzagt, S. Birnbach, U. Lang, H. Waldmann	Synthetic Tumor-Associated Glycopeptide Antigens	Environmental Health Perspectives	1990	88	247-249
H. Waldmann, M. Braun, M. Dräger	Aminosäureester als chirale Hilfsgruppen in Lewis-Säure-katalysierten Umsetzungen elektronreicher Siloxydiene mit Iminen	Angew. Chem.	1990	102	1445
H. Waldmann, J. März, H. Kunz	Synthesis of N-Acetylglucosaminylasparagine- Glyc otri- and pentapeptides by Selective C- and N-terminal Elongation of the Peptide Chain	Carbohydr. Res.	1990	196	75-93
K. von dem Bruch, H. Waldmann, H. Kunz	Glycopeptide - Chemische Synthese biologischer Informationsträger und molekularer Erkennungsstrukturen	Forsch. der Universität Mainz	1990		57
H. Waldmann, G. M. Whitesides	Enzymes in Organic Synthesis	Enzymes in Industry" (W. Gerhartz, Hrsg.), Verlag Chemie, Weinheim	1990		141
M. Schultz, H. Waldmann, W. Vogt, H. Kunz	Stereospecific C-C-Bond Formation with Rabbit Muscle Aldolase - A Chemoenzymatic Synthesis of (+)-Exo-Brevicomine	Tetrahedron Lett.	1990	31	867
P. Braun, H. Waldmann, W. Vogt, H. Kunz	Selective Enzymatic Removal of Protecting Functions: n-Heptyl Esters as Carboxy Protecting Groups in Peptide Synthesis	SYNLETT	1990		105
H. Waldmann	Aminosäureester als chirale Hilfsgruppen in Lewis-Säure-katalysierten Diels-Alder-Reaktionen	Liebigs Ann. Chem.	1990		671
H. Waldmann, M. Dräger	Thermische Diels-Alder-Reaktionen mit N-(2-Alkenoyl)-(S)-prolinestern als chiralen Dienophilen in organischen und wässrigen Reaktionsmedien	Liebigs Ann. Chem.	1990		681
H. Waldmann	Proline Benzyl Ester as Chiral Auxiliary in Barbier-Type Reactions in Aqueous Solution	SYNLETT	1990		627



M. Schultz, H. Waldmann, H. Kunz, W. Vogt	Chemoenzymatische "Chiral-Pool"-Synthese von (+)-exo-Brevicomine aus Kohlenhydraten mit Fructose-1,6-diphosphat-Aldolase	Liebigs Ann. Chem.	1990		1017
H. Waldmann	Prolin-benzylester als chirale Hilfsgruppe in asymmetrischen 1,3-dipolaren Cycloadditionen mit Nitriloxiden	Liebigs Ann. Chem.	1990		1013
H. Kunz, H. Waldmann	Protecting Groups	Comprehensive Organic Chemistry, Pergamon Press, London	1991		631
P. Braun, H. Waldmann, W. Vogt, H. Kunz,	Selektive enzymatische Schutzgruppenabspaltungen: Der n-Heptylester als Carboxylschutzgruppe in der Peptidsynthese	Liebigs Ann. Chem.	1991		165
H. Waldmann, M. Braun	Amino Acid Esters as Chiral Auxiliaries in Cycloaddition Reactions	Gazz. Chim. Ital	1991	121	277
H. Waldmann	Enzymatic Protecting Group Techniques	Kontakte (Merck)	1991	2	33
H. Waldmann	Aminosäureester als chirale Hilfsgruppen	GIT Fachzeitschrift für das Laboratorium	1991	35	593
H. Waldmann, M. Braun	Asymmetric Synthesis of Bicyclic Amino Acid Derivatives by Aza-Diels-Alder-Reactions in Aqueous Solution	Liebigs Ann. Chem.	1991		1045
H. Waldmann, M. Braun, M. Dräger	Asymmetric Aza-Diels-Alder-Reactions of Amino Acid Ester Imines with Brassards Diene	Tetrahedron Asymmetry	1991	2	1991
H. Waldmann	Aminosäureester als chirale Hilfsgruppen bei Barbier-Reaktionen in wässriger Lösung	Liebigs Ann. Chem.	1991		1317
H. Waldmann	LiClO ₄ in Ether - ein ungewöhnliches Lösungsmittel	Angew. Chem.	1991	103	1335
H. Waldmann, M. Braun, M. Weymann, M. Gewehr	An Approach to the Skeleton of Yohimbine-Type Alkaloids via Mannich-Michael Reactions with Indolyethyl-Imines	Synlett	1991		881
H. Waldmann, P. Braun, H. Kunz,	New Enzymatic Protecting Group Techniques for the Construction of	Biomed. Biochim. Acta	1991	50	243-248



Peptides and Glycopeptides

P. Braun, H. Kunz, H. Waldmann	New Enzymatic Protecting Group Techniques for the Construction of Peptides and Glycopeptides	Peptides: Chemistry and Biology (Proceedings of the 12th American Peptide Symposium, Cambridge 1991)" (J. A. Smith und J. E. Rivier, Hrsg.), Escom, Leiden	1992		527
P. Braun, H. Waldmann, H. Kunz	Selective Enzymatic Removal of Protecting Functions: Heptyl Esters as Carboxy Protecting Groups in Glycopeptide Synthesis	Synlett	1992		39
H. Waldmann, M. Braun	Amino Acid Ester Imines as Chiral Auxiliaries in Tandem Mannich-Michael Reactions with Danishefskys Diene	J. Org. Chem.	1992	57	5444
H. Waldmann, A. Heuser, P. Braun, M. Schultz	Neue enzymatische Methoden für die Kohlenhydratchemie	GIT Fachzeitschrift für das Laboratorium	1992	36	908
H. Waldmann, A. Heuser, P. Braun, H. Kunz	New Enzymatic Protecting Group Techniques for Peptide and Glycopeptide Chemistry	Indian J. Chem.	1992	31B	799
H. Waldmann, A. Heuser, P. Braun, M. Schultz, H. Kunz	New Enzymatic Methods for the Selective Functionalization of Carbohydrate Derivatives	Microbial Reagents in Organic Synthesis", NATO ASI Series, Kluwer, Dordrecht	1992		113
H. Waldmann, P. Braun, H. Kunz	New Enzymatic Protecting Group Techniques for the Construction of Peptides and Glycopeptides	Chemistry of Peptides and Proteins	1993	5/6 (Pt. A)	227-235
H. Waldmann	Amino Acid Esters as Chiral Auxiliary Groups I and II	Kontakte (Merck)	1993	(1), 58 und (2), 34	
H. Waldmann, A. Reidel	Enzymatic Protecting Group Techniques	J. Prakt. Chem.	1993	335	109-127
H. Waldmann, M. Braun, M. Weymann, M. Gewehr	Asymmetric Synthesis of Indolo[2,3-a]quinolizidin-2-ones - Congeners to Yohimbine-Type Alkaloids	Tetrahedron	1993	49	397
R. Lock, H. Waldmann	Construction of Tetracyclic Indole Bases via Aza Diels-Alder Reactions of Indolylethylimines with Brassard's	Nat. Prod. Lett.	1993	2	49



Diene

H. Waldmann, G. Schmidt, M. Jansen, J. Geb	Asymmetric Pictet-Spengler Reactions Employing Amino Acid Esters as Mediators of Selectivity	Tetrahedron Lett.	1993	34	5867
P. Braun, H. Waldmann, H. Kunz	Chemoenzymatic Synthesis of O-Glycopeptides Carrying the Tumor Associated T _N -Antigen Structure	Bioorg. Med. Chem.	1993	1	197
H. Waldmann, A. Heuser, A. Reidel	Selective Enzymatic Deprotection of Hydroxy- and Amino Groups in Carbohydrates and Nucleosides	Synlett	1994		65
H. Waldmann, E. Bläser, M. Jansen, H.-P. Letschert	Asymmetrische Synthese hochsubstituierter Pyrrolidine durch 1,3-dipolare Cycloaddition von Azomethinyliden an N-Acryloylprolinbenzylester	Angew. Chem.	1994	106	717
H. Waldmann, R. Lock	Construction of Tetracyclic Indole Bases via Aza Diels-Alder Reactions of Indolylethylimines with Brassard's Diene	Liebigs Ann. Chem.	1994		511
H. Waldmann, A. Heuser	Acetylerase from Orange Peel as Biocatalyst for the Chemo- and Regioselective Deprotection of Carbohydrates	Bioorg. Med. Chem.	1994	2	477-482
H. Waldmann, D. Sebastian	Enzymatic Protecting Group Techniques	Chem. Rev.	1994	94	911-937
H. Waldmann	Asymmetric Hetero Diels-Alder Reactions	Synthesis	1994		535
T. Pohl, E. Nägele, H. Waldmann	Biocatalysts as Chemo- and Regioselecting Tools in Organic Synthesis	Catalysis Today	1994	22	407
H. Waldmann, G. Schmidt, M. Jansen, J. Geb	Asymmetric Steering of the Pictet-Spengler Reaction by Means of Amino Acid Esters as Chiral Auxiliary Groups	Tetrahedron	1994	50	11865
H. Waldmann, G. Böhm, U. Schmid,	O-Glycosidsynthesen unter neutralen Bedingungen in konzentrierten Lösungen von LiClO ₄ in organischen Solvenzien	Angew. Chem.	1994	106	2024
H. Waldmann, M. Weigerding, C. Dreisbach, C. Wandrey	C ₂ -Symmetric Bicyclic Diols as Chiral Ligands in the Titanate-Catalyzed Enantioselective Addition of Alkylzinc	Helv. Chim. Acta	1994	77	2111



Reagents to Aldehydes

G. Giffels, C. Dreisbach, U. Kragl, M. Weigerding, H. Waldmann, C. Wandrey	Chirale Titanalkoxide als Katalysatoren zur enantioselektiven Reduktion von Ketonen mit Boranen	Angew. Chem.	1995	107	2165
H. Waldmann, E. Nägele	Synthesis of the Palmitoylated and Farnesylated C-Terminal Lipohexapeptide of the Human N-Ras Protein by Employing an Enzymatically Removable Urethane Protecting Group	Angew. Chem. / Angew. Chemie Int. Ed.	1995	107 / 34	2425-2428/2259-2262
H. Waldmann, G. Schmidt, H. Henke, M. Burkard	Asymmetrische Steuerung der Pictet-Spengler-Reaktion unter Verwendung von N,N-Phthaloylaminosäuren als chirale Hilfsgruppen	Angew. Chem.	1995	107	2608
H. Waldmann, E. Bläser, M. Jansen, H.-P. Letschert	Asymmetric Steering of 1,3-Dipolar Cycloaddition Reactions by Means of Proline Esters as Chiral Auxiliary Groups	Chem. Eur. J.	1995	1	150
M. Nettekoven, M. Psiorz, H. Waldmann	Synthesis of Enantiomerically Pure 4-Alkylsubstituted Tryptophan Derivatives by a Combination of Organometallic Reactions with Enantioselective Enzymatic Transformations	Tetrahedron Lett.	1995	36	1425
T. Pohl, H. Waldmann	Enhancement of the Enantioselectivity of Penicillin G-Acylase from E. coli by "Substrate Tuning"	Tetrahedron Lett.	1995	36	2963
G. Böhm, H. Waldmann	Synthesis of Glycosides of Fucose under Neutral Conditions in Solutions of LiClO ₄ in Organic Solvents	Tetrahedron Lett.	1995	36	3843
H. Waldmann	Asymmetric Synthesis of Nitrogen Heterocycles Employing Amino Acid Esters as Chiral Auxiliary Groups	Synlett	1995		133
H. Waldmann	Enzymatische Synthese von Peptidkonjugaten - Werkzeuge zum Studium der biologischen Signaltransduktion	"45 Jahre Fonds der Chemischen Industrie"	1995		133
A. Flohr, H. Waldmann	LiClO ₄ and Organic Solvents - A Powerful Combination	J. Prakt. Chem.	1995	337	609
H. Waldmann, K. Drauz, Hrsg.	Enzymatic Protecting Group Techniques" H. Waldmann in "Enzyme	Verlag Chemie, Weinheim	1995		



Catalysis in Organic Synthesis: A
 Comprehensive Handbook

M. Schelhaas, S. Glomsda, M. Hänslers, H.-D. Jakubke, H. Waldmann	Enzymatische Synthese von Peptiden und Ras-Lipopeptiden unter Verwendung des Cholinesters als Löslichkeitsvermittelnder Schutz- und Aktivierungsgruppe	Angew. Chem. / Angew. Chem. Int. Ed.	1996	108 /35	82-85 / 106-109
M. Schelhaas, H. Waldmann	Schutzgruppenstrategien in der Organischen Synthese	Angew. Chem. / Angew. Chem. Int. Ed.	1996	108 / 35	2192-2219 / 2056-2083
T. Pohl, H. Waldmann	Enzymatische Synthese eines charakteristischen phosphorylierten und glycosylierten Peptidfragments der großen katalytischen Untereinheit der RNA-Polymerase II	Angew. Chem. / Angew. Chem. Int. Ed.	1996	108 / 35	1829 / 1729-1722
G. Schmidt, H. Waldmann, H. Henke, M. Burkard	Asymmetric Steering of the Pictet-Spengler Reaction by Means of N-Protected Amino Acids as Chiral Auxiliary Groups	Chem. Eur. J.	1996	2	1566-1571
G. Böhm, H. Waldmann	O-Glycoside Synthesis Under Neutral Conditions in Concentrated Solutions of LiClO ₄ in Organic Solvents Employing Benzyl-Protected Glycosyl Donors	Liebigs Ann. Chem.	1996		613
G. Böhm, H. Waldmann	O-Glycoside Synthesis Under Neutral Conditions in Concentrated Solutions of LiClO ₄ in Organic Solvents Employing Acyl-Protected Glycosyl Donors	Liebigs Ann. Chem.	1996		621
R. Lock, H. Waldmann	Asymmetric Synthesis of Highly Functionalized Tetracyclic Indole Bases Embodying the Basic Skeleton of Yohimbine- and Reserpine Type Alkaloids	Tetrahedron Lett.	1996		2753
G. Müller, H. Waldmann	An Enzyme Initiated Domino Hydroxylation Oxidation Carbo Diels-Alder Reaction Cascade	Tetrahedron Lett.	1996		3833
U. Schmid, H. Waldmann	Activation of Glycosyl Phosphates by in situ Conversion to Glycosyl Iodides under Neutral Conditions in Concentrated Solutions of LiClO ₄ in Organic Solvents	Tetrahedron Lett.	1996		3837
H. Waldmann, A. Heuser, S. Schulze	Selective Enzymatic Removal of Protecting Groups: The	Tetrahedron Lett.	1996	37	8725-8728



Phenylacetamide as Amino Protecting
 Group in Phosphopeptide Synthesis

H. Waldmann, E. Nägele, M. Schelhaas, D. Sebastian	Enzymatic Synthesis of Peptide Conjugates - Tools for the Study of Signal Transduction Processes	in „Peptides - Chemistry, Structure and Biology“ (Hrsg.: P. T. P. Kaumaya und R. Hodges), Mayflower, Kingswinford	1996		397
K. Drauz, H. Waldmann, B. Sauerbrei	Biocatalysis and Enzyme-Analogous Processes	in „Applied Homogeneous Catalysis with Organometallic Compounds“ (Hrsg. B. Cornils und W. A. Hermann), VCH	1996		768
H. Waldmann, A. Reidel	Die Phenylacetamido(PhAc)-Gruppe - Die erste enzymatisch abspaltbare Aminoschutz-gruppe für die Deblockierung von Oligonucleotiden in Lösung und an der festen Phase	Angew. Chem. / Angew. Chem. Int. Ed.	1997	109 / 36	642-644/ 647-649
T. Zelinski, H. Waldmann	Quervernetzte Enzymkristalle (CLECs): Effiziente und stabile Biokatalysatoren für die präparative organische Chemie	Angew. Chem. / Angew. Chem. Int. Ed.	1997	109 / 36	746-748/ 722-724
H. Waldmann, K. Hinterding, P. Herrlich, H. J. Rahmsdorf, A. Knebe	Selective Inhibition of Receptor Tyrosine Kinases by Synthetic Analogs of Aeroplysinin	Angew. Chem.	1997	109	1553-1555
H. Waldmann, M. Schelhaas, E. Nägele, J. Kuhlmann, A. Wittinghofer, H. Schroeder, J. R. Silvius	Chemoenzymatic Synthesis of Fluorescent N-Ras Lipopeptides and their Use in Membrane Localization Studies in vivo	Angew. Chem./Angew. Chem. Int. Ed.	1997	109 / 36	2324 2238-2241
T. Pohl, H. Waldmann	Chemoenzymatic Synthesis of a Characteristic Phosphorylated and Glycosylated Fragment of the Large Subunit of Mammalian RNA Polymerase II	J. Am. Chem. Soc.	1997	119	6702-6710
H. Waldmann, S. Gabold	Chemoenzymatic Synthesis of Nucleopeptides	J. Chem. Soc. Chem. Comm.	1997		1861
R. Lock, H.	Enantioselective Construction of	Chem. Eur. J.	1997	3	143-151



Waldmann	Highly Functionalized Indoloquinolizines - Congeners to Polycyclic Indole Alkaloids				
H. Schroeder, R. Leventis, S. Rex, M. Schelhaas, E. Nägele, H. Waldmann, J. R. Silvius	S-Acylation and Plasma Membrane Targeting of the Farnesylated Carboxyl-terminal Peptide of N-Ras in Mammalian Fibroblasts	Biochemistry	1997	36	13102-13109
P. Stöber, M. Schelhaas, E. Nägele, P. Hagenbuch, J. Rétey, H. Waldmann, T. Kappes, H. Waldmann	Synthesis of Characteristic Liopeptides of the Human N-Ras Protein and their Evaluation as Possible Inhibitors of Protein Farnesyl Transferase	Bioorg. Med. Chem.	1997	5	75
	Enzymatic Synthesis of Peptide Conjugates - Tools for the Study of Biological Signal Transduction	Liebigs Ann. Chem.	1997		808-813
D. Sebastian, H. Waldmann	Chemoenzymatic Synthesis of a Characteristic Phosphopeptide Fragment of the human c-Raf-Kinase	Tetrahedron Lett.	1997	38	2927-2930
S. Kirschbaum, H. Waldmann	Construction of the Tricyclic Benzoquinolizine Ring System by Combination of a Tandem Mannich- Michael Reaction with a Heck Reaction	Tetrahedron Lett.	1997	38	2829-2832
D. Sebastian, A. Heuser, S. Schulze, H. Waldmann	Selective Enzymatic Deprotection of Phosphopeptides - Chemoenzymatic Synthesis of a Characteristic Phosphopeptide Fragment of the Raf-1 Kinase	Synthesis	1997		1098
T. Kappes, H. Waldmann	The Tetrabenzylglucosyloxycarbonyl(BGloc) Group - An Enzyme Labile Carbohydrate Derived Urethane Blocking Group	Carbohydr. Res.	1997	305	341
U. Schmid, H. Waldmann	O-Glycoside Synthesis with Glycosyl Iodides under Neutral Conditions in 1M LiClO ₄ in CH ₂ Cl ₂	Liebigs Ann./Recueil	1997		2573-2577
B. Sauerbrei, T. Kappes, H. Waldmann	Enzymatic Synthesis of Peptide Conjugates - Tools for the Study of Biological Signal Transduction	Top. Curr. Chem.	1997	186	66-86
T. Zelinski, H. Waldmann	Cross-Linked Enzyme Crystals (CLECs) - Powerful Biocatalysts for	J. Prakt. Chem./Chem.-Ztg	1997	339	394-396



Synthetic Chemistry

K. Hinterding, D. Alonso-Diáz, H. Waldmann	Organic Synthesis and Biological Signal Transduction	Angew. Chem. / Angew. Chem. Int. Ed.	1998	110 / 37	716-780/ 688-749
B. Sauerbrei, V. Jungmann, H. Waldmann	Entwicklung einer enzymaliblen Ankergruppe für organische Synthesen an polymeren Trägern	Angew. Chem. / Angew. Chem. Int. Ed.	1998	110 / 37	1187-1190/ 1143-1146
K. Hinterding, P. Hagenbuch, J. Rétey, H. Waldmann	Synthese und in vitro Evaluierung des Farnesyltransferase-Inhibitors Pepticcinnamin E	Angew. Chem. / Angew. Chem. Int. Ed.	1998	110 / 37	1298-1301/ 1236-1239
E. Nägele, M. Schelhaas, N. Kuder, H. Waldmann	Chemoenzymatic Synthesis of N-Ras Lipopeptides	J. Am. Chem. Soc.	1998	120	6889-6902
T. Schmittberger, A. Cotté, H. Waldmann	Synthesis of Characteristic Lipopeptides of Lipid Modified Proteins Employing the Allyl Ester as Protecting Group	J. Chem. Soc. Chem. Commun.	1998		937-938
H. Schene, H. Waldmann	Direct Synthesis of 2-Deoxy- and 2,6-Dideoxy Glycosides under Neutral Conditions in LiClO ₄ /Ether Mixtures	J. Chem. Soc. Chem. Commun.	1998		2759-2760
U. Schmid, H. Waldmann	Synthesis of Fucosyl Saccharides Under Neutral Conditions in Solutions of Lithium Perchlorate in Dichloromethane	Chem. Eur. J.	1998	4	494-501
G. H. Müller, A. Lang, D. R. Seithel, H. Waldmann	An Enzyme-Initiated Hydroxylation-Oxidation-Carbo-Diels-Alder Domino Reacion	Chem. Eur. J.	1998	4	2513-2522
S. Kirschbaum, H. Waldmann	A Three Step Access to the Tricyclic Benzoquinolizine Ring System	J. Org. Chem.	1998	63	4936-4946
V. Jungmann, H. Waldmann	An Enzymatic Protecting Group Strategy for the Synthesis of Nucleopeptides	Tetrahedron Lett.	1998	39	1139-1142
U. Schlede, M. Nazaré, H. Waldmann,	Efficient Enantioselective Synthesis of a β -Hydroxyepoxide Building Block for the Construction of Macrocyclic Natural Products	Tetrahedron Lett.	1998	39	1143-1144
D. Brohm, H. Waldmann	Stereoselective Synthesis of the Core Structure of the Protein Phosphatase	Tetrahedron Lett.	1998		3995-3998



Inhibitor Dysidiolide

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A. Danda, K. Kumar, H. Waldmann	A general catalytic reaction sequence to access alkaloid-inspired indole polycycles	ChemComm	2015	51	7536-7539
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J. Gilleron, R. Paramasivam, A. Zeigerer, W. Querbes, G. Marsico, C. Andree, S. Seifert, P. Amaya, M. Stöter, V. Koteliansky, H. Waldmann, K. Fitzgerald, Y. Kalaidzidis, A. Akinc, M. A. Maier, M. Manoharan, M. Bickle, M. Zerial	Identification of siRNA delivery enhancers by a chemical library screen	Nucleic Acids Res.	2015	43	7984-8001
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E. S. Reckzeh, H. Waldmann	Development of Glucose Transporter (GLUT) Inhibitors	EurJoc	2019	16	2321-2329
P. t'Hart, J. Openy, A. Krzyzanowski, H. Adihou, H. Waldmann	Hot-spot guided design of macrocyclic inhibitors of the LSD1-CoREST1 interaction	Tetrahedron	2019	75	130685
L. Laraia, G. Garivet, D. J. Foley, N. Kaiser, S. Müller, S. Zinken, T. Pinkert, J. Wilke, D. Corkery, A. Pahl, S. Sievers, P. Janning, C. Arenz, Y.-W. Wu, R. Rodriguez, H. Waldmann	Image-Based Morphological Profiling Identifies a Lysosomotropic, Iron-Sequestering Autophagy Inhibitor	Angew. Chem. Int. Ed. doi: 10.1002/anie.201913712	2020	59	5721-5729
M. Winzker, A. Friese, U. Koch, P. Janning, S. Ziegler, H. Waldmann	Development of a PDE δ Targeting PROTACs that Impair Lipid Metabolism	Angew. Chem. Int. Ed.	2020	59	5595-5601
D. J. Foley, S. Zinken, D. Corkery, L. Laraia, A. Pahl, Y. Wu, H. Waldmann	Phenotyping Reveals the Targets of a Pseudo-Natural Product Autophagy Inhibitor	Angew. Chem. Int. Ed. / Angew. Chem.	2020	59 / 132	12470-12476 / 12570-12576
S. M. Guéret, S. Thavam, R. J. Carbajo, M. Potowski, N. Larsson, G. Dahl, A. Dellsén, T. N. Grossmann, A. T. Plowright, E. Valeur, M. Lemurell, H. Waldmann	Macrocyclic Modalities Combining Peptide Epitopes and Natural Product Fragments	J. Am. Chem. Soc. http://dx.doi.org/10.1021/jacs.0c00269	2020	142	4904-4915



G. Karageorgis, D. J. Foley, L. Laraia, H. Waldmann	Principle and design of pseudo-natural products:	Nat. Chem.	2020	12	227-235
H. Adihou, R. Gopalakrishnan, T. Förster, S. M. Guéret, R. Gasper, S. Geschwindner, C. C. García, H. Karatas, A. V. Pobbati, M. Vazquez-Chantada, P. Davey, C. M. Wassvik, J. Kah Sheng Pang, B. Seng Soh, W. Hong, E. Chiarparin, D. Schade, A. T. Plowright, E. Valeur, M. Lemurell, T. N. Grossmann, H. Waldmann	A protein tertiary structure mimetic modulator of the Hippo signalling pathway	Nat. Commun.	2020	11	5425
E. S. Reckzeh, H. Waldmann	Small-Molecule Inhibition of Glucose Transporters GLUT-1-4	ChemBioChem	2020	21	45-52
H. Adihou, R. Gopalakrishnan, T. Förster, S. M. Guéret, R. Gasper, S. Geschwindner, C. Carillo Garcia, H. Karatas, A. V. Pobbati, M. Vazquez-Chantada, P. Davey, C. M. Wassvik, J. K. Sheng Pang, B. Seng Soh, W. Hong, E. Chiarparin, D. Schade, A. T. Plowright, E. Valeur, M. Lemurell, T. N. Grossmann, H. Waldmann	A protein tertiary structure mimetic modulator of the Hippo signalling pathway	Nature Communications https://doi.org/10.1038/s41467-020-19224-8	2020	11	1-10
M. Grigalunas, A. Burhop, A. Christoforow, H. Waldmann	Pseudo-natural products and natural product-inspired methods in chemical biology and drug discovery	Curr. Op.Chem. Biol.	2020	56	111-118



S. Shaaban, C. Davies, C. Merten, J. Flegel, F. Otte, C. Strohmann, H. Waldmann	RhIII-catalyzed C-H Activation of Aryl-Hydroxamates for the Synthesis of Isoindolinones	Chem. – A Eur. J.	2020	26	10729-10734
S. Shaaban, C. Davies, H. Waldmann	Applications of Chiral Cyclopentadienyl (Cp ^x) Metal Complexes in Asymmetric Catalysis (Minireview)	Eur. J. Org. Chem.	2020		6512-6524
T. Kawamura, Y. Futumura, E. Shang, M. Muroi, P. Janning, M. Ueno, J. Wilke, S. Takeda, Y. Kondoh, S. Ziegler, N. Watanabe, H. Waldmann, H. Osada	Discovery of small-molecule modulator of heterotrimeric Gi-protein by integrated phenotypic profiling and chemical proteomics	Bioscience, Biotechnology and Biochemistry	2020		DOI: 10.1080/09168451.2020.1812375
H. Karatas, M. Akbarzadeh, H. Adihou, G. Hahne, A. V. Pobbati, E. Yihui Ng, S. M. Guéret, S. Sievers, A. Pahl, M. Metz, S. Zinken, L. Dötsch, C. Nowak, S. Thavam, A. Friese, C. Kang, W. Hong, H. Waldmann	Discovery of Covalent Inhibitors Targeting the Transcriptional Associate Domain Central Pocket	J. Med.Chem	2020	63	11972-11989
T. Schneidewind, A. Brause, A. Pahl, A. Burhop, T. Mejuch, S. Sievers, H. Waldmann, S. Ziegler	Morphological Profiling Identifies a Common Mode of Action for Small Molecules with Different Targets	ChemBioChem	2020	21	3197-3207
G. S. Cremosnik, J. Liu, H. Waldmann	Guided by Evolution: from Biology Oriented Synthesis to Pseudo Natural Products	Natural Product Reports	2020	37	1497-1510
S. Shaaban, H. Li, F. Otte, C. Strohmann, A. Antonchick, H. Waldmann	Enantioselective Synthesis of 5-Membered-Ring Atropisomers with Chiral Rh(III) Complexes	Org. Lett.	2020	22 (23)	9199-9202
P. t-Hart, P. Hommen, A. Noisier, A. Krzyzanowski, D. Schüler, A. T.	Structure based design of bicyclic peptide inhibitors of RbAp48	Angew. Chem. Int. Ed.	2021	60	1813-1820



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Akbarzadeh, I. R.
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J. Liu, G. S. Cremosnik, F. Otte, A. Pahl, S. Sievers, C. Strohmann, H. Waldmann	Design, Synthesis and Biological Evaluation of Chemically and Biologically Diverse Pyrroquinoline Pseudo Natural Products	Angew. Chem. Int. Ed.	2021	60	4648-4656
E. Hennes, P. Lampe, L. Dötsch, N. Bruning, L.-M. Pulvermacher, S. Sievers, S. Ziegler, H. Waldmann	Cell-Based Identification of New IDO1 Modulator Chemotypes	Angew. Chem. Int. Ed.	2021	60	9869-9874
G. Karageorgis, D. J. Foley, L. Laraia, S. Brakmann, H. Waldmann	Minireview: Pseudo Natural Products – Chemical Evolution of Natural Product Structure	Angew. Chem. Int. Ed.	2021	60	15705-15723
O. Yildirim, M. Grigalunas, L. Brieger, C. Strohmann, A. P. Antonchick, H. Waldmann	Dynamic Catalytic Highly Enantioselective 1,3-Dipolar Cycloadditions	Angew. Chem. Int. Ed.	2021	60	20012-20020
J. Liu, J. Flegel, F. Otte, A. Pahl, S. Sievers, C. Strohmann, H. Waldmann	Combination of Pseudo-Natural Product Design and Formal Natural Product Ring Distortion Yields Stereochemically and Biologically Diverse Pseudo Sesquiterpenoid Alkaloids	Angew. Chem. Int. Ed.	2021	60	21384-21395
M. Grigalunas, A. Burhop, S. Zinken, A. Pahl, N. Wild, Y. Mantel, S. Sievers, D. J. Foley, R. Scheel, A. P. Antonchick, H. Waldmann	Natural Product Fragment Combination to Performance-Diverse Pseudo-Natural Products	Nat. Commun. https://doi.org/10.1038/s41467-021-22174-4	2021	12	1883
A. Burhop, S. Bag, M. Grigalunas, S. Woitalla, P. Bodenbinder, L. Brieger, C. Strohmann, A. Pahl, S. Sievers H. Waldmann	Synthesis of Indofulvin Pseudo-Natural Products Yields a New Autophagy Inhibitor Chemotype	Advanced Science, DOI: 10.1002/adv.202102042	2021	8	20102042



S. Ziegler, S. Sievers, H. Waldmann	Morphological Profiling of Small Molecules (Review)	Cell Chem Biol	2021	28	300-319
T. Schneidewind, A. Brause, S. Sievers, A. Pahl, M.G. Sankar, M. Winzker, P. Janning, K. Kumar, S. Ziegler, H. Waldmann	Combined morphological and proteome profiling reveals target-independent impairment of cholesterol homeostasis	Cell Chem. Biol. https://doi.org/10.1016/j.chembiol.2021.06.003	2021	28	1780-1794
J. Wilke, T. Kawamura, H. Xu, A. Brause, A. Friese, M. Metz, D. Schepmann, B. Wünsch, A. Artacho-Cordón, F. R. Nieto, N. Watanabe, H. Osada, S. Ziegler, H. Waldmann	Discovery of a novel σ 1 receptor antagonist by combination of unbiased Cell Painting and thermal proteome profiling	Cell Chem. Biol. https://doi.org/10.1016/j.chembiol.2021.01.009	2021	28	848-854
M.A. Carnero Corrales, S. Zinken, G. Konstantinidis, M. Rafehi, A. Abdelrahman, Y.-W. Wu, P. Janning, C. E. Müller, L. Laraia, H. Waldmann	Thermal Proteome Profiling Identifies the Membrane-Bound Purinergic Receptor P2X4 as a Target of the Autophagy Inhibitor Indophagolin	Cell Chem. Biol.	2021	28	1750-1754
A. Lopéz-Pérez, S. Freischem, I. Grimm, O. Weiergräber, A. Dingley, M. Pascual López-Alberca, H. Waldmann, W. Vollmer, K. Kumar, C. Vuong	Discovery of pyrrolidine-2,3-diones as novel inhibitors of <i>P. aeruginosa</i> PBP3	Antibiotics https://doi.org/10.3390/antibiotics10050529	2021	10	529
A. Krzyzanowski, R. Gasper, H. Adihou, P. t Hart, H. Waldmann	Biochemical Investigation of the Interaction of pICln, RioK1 and COPR5 with the PRMT5-MEP50 Complex	ChemBioChem.	2021	22	1908-1944
S. Shaaban, H. Li, C. Merten, A. P. Antonchick, H. Waldmann	Rhodium(III)-catalyzed Enantioselective Benzamidation of Cyclopropenes	Synthesis	2021	53	2192-2200



C. Nöcker, N. Kaiser, D. Foley, S. Sievers, P. Janning, H. Waldmann, L. Laraia	Thermal proteome profiling efficiently identifies ribosome destabilizing oxazolidinones	Tetrahedron https://doi.org/10.1016/j.tet.2021.132118	2021	87	132118
J.M. Gally, A. Pahl, H. Waldmann	Identifying Bioactivity of Pseudo- Natural Products using the Cell Painting Assay	ARKIVOC	2021		Part iv, 89-104
Gally, J.M., Pahl, A., Czodrowski, P., Waldmann, H.	Pseudonatural Products Occur Frequently in Biologically Relevant Compounds	J. Chem. Inf. Model. https://doi.org/10.1021/acs.jcim.1c01084	2021	61	5458-5468
M. Akbarzadeh, J. Flegel, S. Patil, E. Shang, R. Narayan, M. Buchholzer, N. S. Kazemein Jasemi, M. Grigalunas, A. Krzyzanowski, D. Abegg, A. Shuster, M. Potowski, H. Karatas, G. Karageorgis, N, Mosaddeghzadeh, M.-L. Zischinsky, C. Merten, C. Golz, L. Brieger, C. Strohmann, A. P. Antonchick, P. Janning, A. Adibekian, R. S. Goody, M. R. Ahmadian, S. Ziegler, H. Waldmann	The Pseudo-Natural Product Rhonin Targets RHOGDI1	Angew. Chem. Int. Ed.	2022	61	e202115193
G. Niggemeyer, A. Knyazeva, R. Gasper, D. Corkery, P. Bodenbinder, J. Holstein, S. Sievers, Y..W. Wu, H. Waldmann	Synthesis of 20-Membered Macrocyclic Pseudo-Natural Products Yields Inducers of LC3-Lipidation	Angew. Chem. Int. Ed.	2022	61	E202114328
Davies, C., Dötsch, L., Ciulla, M.G., Hennes, E., Yoshida, K., Gasper, R., Scheel, R., Sievers, S., Strohmann, ,C., Kumar, K., Ziegler, S., Waldmann, H.	Identification of a Novel Pseudo- Natural Product Type IV IDO1 Inhibitor Chemotype	Angew. Chem. Int. Ed.	2022	61	E202209374



Young, R.Y., Flitsch, S.L., Grigalunas, M., Leeson, P.D., Quinn, R.J., Turner, N.J., Waldmann, H.	The Time and Place for Nature in Drug Discovery	J. Am. Chem. Soc. Au	2022	2	2400-2416
M. Grigalunas, S. Brakmann, H. Waldmann	Perspective: Chemical Evolution of Natural Product Structure	J. Am. Chem. Soc.	2022	144	3314-3329
M. Akbarzadeh, I. Deipenwisch, B. Schölermann, A. Pahl, S. Siever, S. Ziegler, H. Waldmann	Morphological Profiling by Means of Cell Painting Assay Enables Identification of Tubulin-Targeting Compounds	Cell Chem. Biol.	2022	29	1053-1064.e3
Wesseler, F., Riege, D., Puthanveedu, M., Halver, J., Müller, E., Bertrand, J., Antonchick, A., Sievers, S., Waldmann, H., Schade, D.	Probing Embryonic Development Enables the Discovery of Unique Small-Molecule Bone Morphogenetic Protein Potentiators	J. Med. Chem.	2022	65	3978-3990
Wesseler, F., Lohmann, S., Riege, D., Halver, J., Roth, A., Pichlo, C., Weber, S., Takamiya, M., Müller, E., Ketzler, J., Flegel, J., Gihring, A., Rastegar, S., Bertrand, J., Baumann, U., Knippschild, U., Peifer, C., Sievers, S., Waldmann, H., Schade, D.	Phenotypic Discovery of Triazolo[1,5-c]quinazolines as a First-In-Class Bone Morphogenetic Protein Amplifier Chemotype	J. Med. Chem.	2022	65	15263-15281
Krzyzanowski, A., Esser, L.M., Willaume, A., Prudent, R., Peter, C., 't Hart, P., Waldmann, H.	Development of Macrocyclic PRMT5-Adaptor Protein Interaction Inhibitors	J. Med. Chem.	2022	65	15300-15311



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S. Shaaban, C. Merten, H. Waldmann	Catalytic Atroposelective C7-Functionalisation of Indolines and Indoles	Chem. Eur. J.	2022	28	e202103365
Grigalunas, M., Patil, S., Krzyzanowski, A., Pahl, A., Flegel, J., Schölermann, B., Xie, J., Sievers, S., Ziegler, S., Waldmann, H.	Unprecedented Combination of Polyketide Natural Product Fragments Identifies the New Hedgehog Signaling Pathway Inhibitor Grisonone	Chem. Eur. J.	2022	28	e202202164
Yoshioka, H., Kawamura, T., Muroi, M., Kondoh, Y., Honda, K., Kawatani, M., Aono, H., Waldmann, H., Watanabe, H., Osada, H.	Identification of a Small Molecule That Enhances Ferroptosis via Inhibition of Ferroptosis Suppressor Protein 1 (FSP1)	ACS Chem. Biol.	2022	17	483-491
Picard, L.K., Littwitz-Salomon, E., Waldmann, H., Watzl, C.	Inhibition of glucose uptake blocks proliferation but not cytotoxic activity of NK cells	Cells	2022	11	3489-3506
Foley, D.J., Waldmann, H.	Ketones as strategic building blocks for the synthesis of natural product-inspired compounds	Chem. Soc. Rev.	2022	51	4094-4120



C. Davies, S. Shaaban, H. Waldmann	Asymmetric Catalysis with Chiral Cyclopentadienyl Complexes to Access Privileged Scaffolds	Trends in Chemistry	2022	4	318-330
Jones, P.S., Boucharens, S., McElroy, S.P., Morrison, A., Honarnejad, S., van Boeckel, S., van den Hurk, H., Basting, D., Huser, J., Jaroch, S., et al.	IMI European Lead Factory — democratizing access to highthroughput screening	Nat. Rev. Drug Discov.	2022	21	245-246
Tong, Y., Lee, Y., Liu, X., Childs- Disney, J.L., Suresh, B.M., Benhamou, R.I., Yang, C., Li, W., Costales, M.G., Haniff, H.S., Sievers, S., Abegg, D., Wegner, T., Paulisch, T.O., Lekah, E., Grefe, M., Crynen, G., Van Meter, M., Wang, T., Gibaut, Q.M.R., Cleveland, J.L., Adibekian, A., Glorius, F., Waldmann, H., Disney, M.D.	Programming inactive RNA-binding small molecules into bioactive degraders	Nature https://doi.org/10.1038/s41586-023-06091-8	2023	618	169-179
Xue, G., Xie, J., Hinterndorfer, M., Cigler, M., Dötsch, L., Imrichova, H., Lampe, P., Rezaei Adariani, S., Winter, G.E., Waldmann, H.	Discovery of a Drug-like, Natural Product-Inspired DCAF11 Ligand Chemotype	Nat. Comm. https://doi.org/10.1038/s41467-023-43657-6	2023	14	7908
Liu, J., Mallick, S., Xie, Y., Grassin, C., Lucas, B., Schölermann, B., Pahl, A., Scheel, R., Strohmann, C., Protzel, C., Berg, T., Merten, C., Ziegler, S., Waldmann, H.	Morphological profiling identifies the motor protein Eg5 as cellular target of spirooxindoles	Angew. Chem. https://doi.org/10.1002/anie.202301955	2023	62	e202301955



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Pahl, A., Schölermann, B., Lampe, P., Rusch, M., Dow, M., Hedberg, C., Nelson, A., Sievers, S., Waldmann, H., Ziegler, S.	Morphological Subprofile Analysis for Bioactivity Annotation of Small Molecules	Cell Chemical Biology https://doi.org/10.1016/j.chembiol.2023.06.003	2023	30	839-853
Krzyzanowski, A., Pahl, A., Grigalunas, M., Waldmann, H.	Spacial Score – A Comprehensive Topological Indicator for Small Molecule Complexity	J. Med. Chem. https://doi.org/10.1021/acs.jmedchem.3c00689	2023	66	12739-12750
Liu, J., Zhang, R., Patil, S., Wientjens, C., Flegel, J., Krupp, A., Strohmann, C., Grassin, C., Merten, C., Pahl, A., Grigalunas, M., Waldmann, H.	A highly enantioselective intramolecular 1,3-dipolar cycloaddition yields novel pseudo-natural product inhibitors of the Hedgehog signaling pathway	Chemical Science https://doi.org/10.1039/D3SC01240A	2023	14	7936-7943
Corkery, D., Ursu, A., Lucas, B., Grigalunas, M., Kriegler, S., Oliva, R., Dec, R., Koska, S., Pahl, A., Sievers, S., Ziegler, S., Winter, R., Wu, Y., Waldmann, H.	Inducin Triggers LC3-Lipidation and ESCRT-Mediated Lysosomal Membrane Repair	ChemBioChem http://dx.doi.org/10.1002/cbic.202300579	2023	24	e202300579
Aoyama, H., Davies, C., Liu, J., Pahl, A., Kirchhoff, J.-L., Scheel, R., Sievers, S., Strohmann, C., Grigalunas, M., Waldmann, H.	Collective Synthesis of Sarpagine and Macroline Alkaloid-Inspired Compounds	Chem. Eur. J. https://doi.org/10.1002/chem.202303027	2023	30	e202303027



Zinken, S., Pahl, A., Grigalunas, M., Waldmann, H.	Phenotypic Profiling Enables the Targeted Design of a Novel Pseudo-Natural Product Class	Tetrahedron https://doi.org/10.1016/j.tet.2023.133553	2023	143	133553
Liu, J., Grigalunas, M., Waldmann, H.	Chemical evolution of natural product structure for drug discovery	Book Chapter in "Ann. Rep. Med. Chem.", ed. by K.-H. Altmann https://doi.org/10.1016/bs.armc.2023.10.001	2023	61	1-53
Bag, S., Liu, J., Patil, S., Bonowski, J., Koska, S., Schölermann, B., Zhang, R., Wang, L., Pahl, A., Sievers, S., Brieger, L., Strohmam, C., Ziegler, S., Grigalunas, M., Waldmann, H.	A divergent intermediate strategy yields biologically diverse pseudo-natural products	Nature Chemistry https://doi.org/10.1038/s41557-024-01458-4	2024		945-958
Cigler, M., Imrichova, H., Frommelt, F., Depta, L., Rukavina, A., Kagiou, C., Hannich, T., Mayor-Ruiz, C., Superti-Furga, G., Sievers, S., Laraia, L., Waldmann, H., Winter, G.	Orpinolide disrupts a leukemic dependency on cholesterol transport by inhibiting OSBP	Nat. Chem. Biol. https://www.nature.com/articles/s41589-024-01614-4	2024		In press
Cheng, X.-F., Grigalunas, M., Waldmann, H.	Progress and Opportunities of Pseudo-Natural-Product Design in Molecular Discovery	Arkivoc https://doi.org/10.24820/ark.5550190.p012.153	2024	5	202312153
Dötsch, L., Davies, C., Hennes, E., Schönfeld, J., Kumar, A., Da Cruz Lopes Guita, C., Ehrler, J.H.M., Hiesinger, K., Thavam, S., Janning, P., Sievers, S., Knapp, S., Proschak, E., Ziegler, S., Waldmann, H.	Discovery of the sEH Inhibitor Epoxykynin as Potent Kynurenine Pathway Modulator	J. Med. Chem. https://doi.org/10.1021/acs.jmedchem.3c02245	2024	67	4691-4706



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Heinzke, A.L., Pahl, A., Zdrzil, B., Leach, A.R., Waldmann, H., Young, R.J., Leeson, P.D.	Occurrence of 'Natural Selection' in Successful Small Molecule Drug Discovery	J. Med. Chem. https://doi.org/10.1021/acs.jmedchem.4c00811	2024	67	11226-11241
Rezaei Adariani, S., Agne, D., Koska, S., Burhop, A., Seitz, C., Warmers, J., Janning, P., Metz, M., Pahl, A., Sievers, S., Waldmann, H., Ziegler, S.	Detection of a Mitochondrial Fragmentation and Integrated Stress Response Using the Cell Painting Assay	J. Med. Chem. https://doi.org/10.1021/acs.jmedchem.4c01183	2024	67	13252-13270
Picard, L.K., Niemann, J.A., Littwitz-Salomon, E., Waldmann, H., Watzl, C.	Restriction of glycolysis increases serial-killing capacity of Natural Killer cells	Int. J. Mol. Sci. https://doi.org/10.3390/ijms25052917	2024	25	2917
Wang, L., Yilmaz, F., Yildirim, O., Schölermann, B., Bag, S., Greiner, L., Pahl, A., Sievers, S., Scheel, R., Strohmann, C., Squire, C., Foley, D.J., Ziegler, S., Grigalunas, M., Waldmann, H.	Discovery of a novel pseudo-natural product Aurora kinase inhibitor chemotype through morphological profiling	Advanced Science https://doi.org/10.1002/advs.202309202	2024	11	2309202
Knyazeva, A., Li, S., Corkery, D.P., Shankar, K., Herzog, L.K., Zhang, X., Singh, B., Niggemeyer, G., Grill, D., Gilthorpe, J., Gaetani, M., Carlson, L.-A.	A chemical inhibitor of IST1-CHMP1B interaction impairs endosomal recycling and induces non-canonical LC3 lipidation	PNAS https://doi.org/10.1073/pnas.2317680121	2024	121	e2317680121



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Tandon, A., Santura, A., Waldmann, H., Pahl, A., Czodrowski, P.	Identification of Lysosomotropism using Explainable Machine Learning and Morphological Profiling Cell Painting Data	RSC Med. Chem. https://doi.org/10.1039/D4MD00107A	2024	15	2677-2691
Pahl, A., Grygorenko, O.O., Kondratov, I.S., Waldmann, H.	Identification of Readily Available Pseudo-Natural Products	RSC Med. Chem. https://doi.org/10.1039/D4MD00310A	2024	15	2709-2717
Heinzke, A.L., Zdrzil, B., Leeson, P.D., Young, R.J., Pahl, A., Waldmann, H., Leach, A.R.	A compound-target pairs dataset: differences between drugs, clinical candidates and other bioactive compounds	Scientific Data https://doi.org/10.1038/s41597-024-03582-9	2024	11	1160