Prof. Dr. Dr. h.c. Herbert Waldmann

MAX PLANCK INSTITUTE
OF MOLECULAR PHYSIOLOGY

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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 ß-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 ß-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. Bednarski, W. R. Shangraw, G. M. Whitesides	The Enzymic Utilization of Sucrose in the Synthesis of Amylose and Derivatives of Amylose, Using Phosphorylases	Carbohydr. REs.	**1986**	*157*	C4-C7
A. Akiyama, M. D. Bednarski, M.-J. Kim, E. S. Simon, H. Waldmann, G. M.	Enzymes in Organic Synthesis	Chem. Brit.	**1987**	*23*	645

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Whitesides

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 für Peptide und Kohlenhydrate: Selektive Schutzgruppenabspaltungen mit Penicillin Acylase	Liebigs Ann. Chem.	**1988**		1175
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**		

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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, H. Waldmann	Synthesis of Glycopeptide Partial Structures of Virus Coat Glycoproteins	Chemistry of Peptides and Proteins, Vol. 5	**1989**		
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 elektronenreicher Siloxydiene mit Iminen	Angew. Chem.	**1990**	*102*	1445
H. Waldmann, J. März, H. Kunz	Synthesis of N-Acetylglucosaminylasparagine-Glycotri- and pentapeptides by Selective C- and N-terminal Elongation of the Peptide Chain	Carbohyrd. Res.	**1990**	*196*	75-93

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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-Brevicomin	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-Brevicomin 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 Carboxyl-schutzgruppe 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

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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 Indolylethyl-Imines	Synlett	**1991**		881
H. Waldmann, P. Braun, H. Kunz,	New Enzymatic Protecting Group Techniques for the Construction of Peptides and Glycopeptides	Biomed. Biochim. Acta	**1991**	*50*	243-248
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.	New Enzymatic Methods for the	Microbial Reagents in	**1992**		113

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Heuser, P. Braun, M. Schultz, H. Kunz	Selective Functionalization of Carbohydrate Derivatives	Organic Synthesis", NATO ASI Series, Kluwer, Dordrecht			
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 **1993** (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 Diene	Nat. Prod. Lett.	**1993**	*2*	49
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	Acetylesterase 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

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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 Reagents to Aldehydes	Helv. Chim. Acta	**1994**	*77*	2111
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 Hetrocycles Employing Amino Acid Esters as Chiral Auxiliary Groups	Synlett	**1995**		133
H. Waldmann	Enzymatische Synthese von	"45 Jahre Fonds der	**1995**		133

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	Peptidkonjugaten - Werkzeuge zum Studium der biologischen Signaltransduktion	Chemischen Industrie“			
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 Catalysis in Organic Synthesis: A Comprehensive Handbook	Verlag Chemie, Weinheim	**1995**		
M. Schelhaas, S. Glomsda, M. Hänsler, 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	Tetrahedron Lett.	**1996**		3837

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	Organic Solvents				
H. Waldmann, A. Heuser, S. Schulze	Selective Enzymatic Removal of Protecting Groups: The Phenylacetamide as Amino Protecting Group in Phosphopeptide Synthesis	Tetrahedron Lett.	**1996**	*37*	8725-8728
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
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B. Bulic, M. Pickhardt, B. Schmidt, E.-M. Mandelkow, H. Waldmann, E. Mandelkow	Development of Tau Aggregation Inhibitors for Alzheimer's Disease	Angew. Chem. Int. Ed./ Angew. Chem.	**2009**	*48/ 121*	1740-1752/ 1772-1785
K. Kumar, H. Waldmann	Synthesis of Natural Product Inspired Compound Collections	Angew. Chem. Int. Ed./ Angew. Chem.	**2009**	*48/ 121*	3224-3242/ 3272-3290
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Hedberg, M. Kaiser, H. Waldmann	natural product inspired *cis*-1,2-dehydrodecalins				
W. Wilk, A. Nören-Müller, M. Kaiser, H. Waldmann	Biology-Oriented Combined Solid- and Solution-Phase Synthesis of a Macroline-Like Compound Collection	Chem. a Eur. J.	**2009**	*15*	11976-11984
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V. V. Vintonyak, A. P. Antonchick, D. Rauh, H. Waldmann	The therapeutic potential of phosphatase inhibitors	Current Opinion in Chemical Biology	**2009**	*13*	272-283
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M. Gerauer, S. Koch, H. Waldmann	Lipidated peptide Synthesis	In: Wiley Encyclopedia of Chemical Biology, Publisher: John Wiley&Sons, Ed.: T. P. Begley	**2009**		520-530
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R. Rose, S. Erdmann, S. Bovens, A. Wolf, M.	Identification and Structure of Small-Molecule Stabilizers of 14-3-3 Protein-	Angew.Chem. Int. Ed.	**2010**	*24*	4129-4132

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G. Triola, M. Gerauer, K. Görmer, L. Brunsveld, H. Waldmann	Solid-Phase Synthesis of Lipidated Ras Peptides Employing the Ellman Sulfonamide Linker	Chem. – Eur. J. (Conference issue)	**2010**	*16*	9585-9591
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H. Lachance, S. Wetzel, H. Waldmann	Role of Natural Products in Drug Discovery	Book Chapter in: "Lead Generation Approaches in Drug Discovery, eds. Zoran Rakovic, Richard Morphy, Wiley & Sons	**2010**		187-229
K. Görmer, L. Brunsveld, H. Waldmann	Lipidation of Peptides and Proteins	In: Comprehensive Natural Products II Chemistry and Biology; Mander, L., Lui, H.-W., Eds, Elsevier, Oxford	**2010**		531-586
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M. Rusch, T. J. Zimmermann, M. Bürger, F. J. Dekker,	Identification of Acyl Protein Thioesterases 1 and 2 as the Cellular Targets of the Ras-Signalling Modulators	Angew. Chem. Int. Ed	**2011**	*50*	9838-9842

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S. Wetzel, R. Bon, K. Kumar, H. Waldmann	Review: Biology Oriented Synthesis	Angew. Chem. Int. Ed., Angew. Chem.	**2011**	*50 / 123*	10800-10826 / 10990-11018
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A. P. Antonchick, H. Schuster, H. Bruss, M. Schürmann, H. Preut, D. Rauh, H. Waldmann	Enantioselective synthesis of the dpirotryprostatin A scaffold	Tetrahedron	**2011**	*67*	10195-10202
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H. Dückert, V. Pries, V. Khedkar, S. Menninger, H. Bruss, A. W. Bird, Z. Maliga, A.Brockmeyer, P. Janning, A. Hyman, S. Grimme, M. Schürmann, H. Preut, K. Hübel, S. Ziegler, K. Kumar, H. Waldmann	Natural product-inspired cascade synthesis yields modulators of centrosome integrity	Nat. Chem. Biol.	**2012**	*8*	179-184

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M. Potowski, M. Schürmann, H. Preut, A. P. Antonchick, H. Waldmann	Programmable enantioselective one-pot synthesis of molecules with eight stereocenters	Nature Chem. Biol.	**2012**	*8*	428-430
H. Waldmann	Drug Discovery … The Third in the Band! (Angewandte Editorial)	Angew. Chem. Int. Ed.	**2012**	*51*	6284-6285
M. Potowski, J. O. Bauer, C. Strohmann, A. P. Antonchick, H. Waldmann	Highly Enantioselective Catalytic [6+3] Cycloadditions of Azomethine Ylides	Angew. Chem. Int. Ed.	**2012**	*51*	9512-9516
S. Kapoor, G. Triola, I. R. Vetter, M. Erlkamp, H. Waldmann, R. Winter	Revealing conformational substates of lipidated N-Ras protein by pressure modulation	Proc. Natl. Acad. Sci.	**2012**	*109*	460-465
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L.-G. Milroy, S. Rizzo, A. Calderon, B. Ellinger, S. Erdmann, J. Mondry, P. Verveer,	Selective Chemical Imaging of Static Actin in Live Cells	J. Am. Chem. Soc.	**2012**	*134*	8480-8486

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P. Bastiaens, H. Waldmann, L. Dehmelt, H.-D. Arndt					
C. Deraeve, Z. Guo, R. S. Bon, W. Blankenfeldt, R. DiLucrezia, A. Wolf, S. Menninger, E. A. Stigter, S. Wetzel, A. Choidas, K. Alexandrov, H. Waldmann, R. S. Goody, Y.-W. Wu	Psoromic Acid is a Selective and Covalent Rab-Prenylation Inhibitor Targeting Autoinhibited RabGGTase	J. Am. Chem. Soc.	**2012**	*134*	7384-7391
K. Weise, S. Kapoor, A. Werkmüller, S. Möbitz, G. Zimmermann, G. Triola, Hr. Waldmann, R. Winter	Dissociation of the K Ras4B/PDEδ Complex upon Contact with Lipid Membranes: Membrane Delivery Instead of Extraction	J. Am. Chem. Soc.	**2012**	*134*	11503-11510
L Yi, Y.-X. Chen, P-C. Lin, H. Schröder, C. M. Niemeyer, Y.-W Wu, R. S. Goody, G. Triola, H. Waldmann	Direct iImmobilization of oxyamine-modified proteins from cell lysates	ChemComm	**2012**	*48*	10829-10831
A. Richter, R. Rose, C. Hedberg, H. Waldmann, C. Ottmann	An Optimised Small-molecule Stabilizer of the 14-3-3-PMA2 Protein-Protein Interaction	Chem – Eur. J.	**2012**	*18*	6520-6527
J. Xu, C. Hedberg, F. J. Dekker, Q. Li, K. M. Haigis, E. Hwang, H. Waldmann, K. Shannon	Inhibiting the pamiltoylation/depamitoylation cycle selectively reduces the growth of hematopoietic cells expressing oncogenic *Nras*	Blood	**2012**	*119*	1032-1035
D. Willmann, SY Lim, S. Wetzel, E. Metzger, A. Jandausch, W. Wilk, M. Jung, I. Forne, A. Imhof, A. Janzer, J. Kirfel, H. Waldmann, R. Schüle, R. Buettner	Impairment of prostate cancer cell growth by a selective and reversible lysine-specific demethylase 1 inhibitor	Internat. J. of Cancer	**2012**	*131*	2704-2709
E. A. Stigter, Z. Guo, R. S. Bon, Y.-W. Wu, A. Choidas, A.Wolf, S. Menninger, H. Waldmann, W. Blankenfeldt, R. S. Goody	Development of Selective, Potent RabGGTase Inhibitors	J. Med.Chem.	**2012**	*55*	8330-8340

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H. Lachance, S. Wetzel, K. Kumar, H. Waldmann	Charting, Navigating and Populating Natural Product Chemical Space for Drug Discovery	J. Med. Chem.	**2012**	*55*	5989-6001
K. Görmer, M. Bürger, J. A. W. Kruijtzer, I.. Vetter, N. Vartak, L. Brunsveld, P. I. H. Bastiaens, R. Liskamp, G. Triola, H. Waldmann	Chemical-Biological Exploration of the Limits of the Ras De- and Repalmitoylating Machinery	ChemBioChem	**2012**	*13*	1017-1023
T. R. Samatov, A. Wolf, P. Odenwälder, S. Bessonov, C. Deraeve, R. S. Bon, H. Waldmann, R. Lührmann	Psoromic Acid Derivatives: A New Family of Small-molecule pre-mRNA splicing Inhibitors Discovered by a Stage-Specific Hgh-Throughput in Vtro Splicing Assay	ChemBioChem	**2012**	*13*	640-644
D. Das, Z.Tnimov, U.T.T. Nguyen, G. Thimmaiah, H. Lo, D. Abankwa, Y. Wu, R. S. Goody, H. Waldmann, K. Alexandrov	Flexible and General Synthesis of Functionalized Phosphoisoprenoids for the Study of Prenylation in vivo and in vitro	ChemBioChem	**2012**	*13*	674-683
K. Matcha, A. V. R. Madduri, S. Roy, S. Ziegler, H. Waldmann, A. K. H. Hirsch , A. J. Minnaard	Total Synthesis of (-)-Doliculide, Structure-Activity Relationship Studies and its Binding to F-Actin	ChemBioChem	**2012**	*13*	2537-2548
G. Triola, H. Waldmann, C. Hedberg	Chemical Biology of Lipidated Proteins	ACS Chemical Biology	**2012**	*8*	87-99
Z.Tnimov, Z. Guo, Y. Gambin, U. T.T. Nguyen, Y.-W. Wu, D. Abankwa, A. Stigter, B. M. Collins, H. Waldmann, R. S. Goody, K. Alexandrov	Quantitative Analysis of Prenylated RhoA Interaction with Its Chaperone, RhoGDI	J. Biol. Chem.	**2012**	*287*	26549-26562
M. Bürger, T. J. Zimmermann, Y. Kondoh, P. Stege, N. Watanabe, H. Osada, H. Waldmann, I. R. Vetter	Crystal structure of the predicted phospholipase LYPLAL1 reveals unexpected functional plasticity despite close relationship to acyl protein thioesterases	J. of Lipid Research	**2012**	*53*	43-50
R. Toth, C. Gerding-Reimers, M. Deeks, S. Menninger, R.	Prieurianin/ endosidin 1 is an actin-stabilizing small molecule identified from a chemical genetic screen for circadian	The Plant Journal	**2012**	*71*	338-352

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Martinez Gallegos, I. A. N. Tonaco, K. Hübel, P. J. Hussey, H. Waldmann, G. Coupland	clock effectors in *Arabidopsis thaliana*				
S. Kapoor, K. Weise, M. Erlkamp, G. Triola, H. Waldmann, R. Winter	The role of G-domain orientation and nucleotide state on the Ras isoform-specific membrane interaction	Eur. Biophys. J.	**2012**	*41*	801-813
S. Ziegler, H. Waldmann	Hunting the Targets of Natural Product-Inspired Compounds	M. Shibasaki et al (eds.), Chembiomolecular Science: At the Frontier of Chemistry and Biology, Springer Verlag	**2012**		229-238
K. Alexandrov, Y.-W. Wu, W. Blankenfeldt, H. Waldmann, R. S. Goody	Organization and function of the Rab prenylation and recycling machinery	The Enzymes Volume 29: Protein Prenylation Part A Edited by Fuyuhiko Tamanoi, Christine A. Hrycyna and Martin O. Bergo	**2012**		147-162
J. Güldenhaupt, T. Rudack, P. Bachler, D. Mann, G. Triola, H. Waldmann, C. Kötting, K. Gerwert	N-Ras Forms Dimers at POPC Membranes	Biophysical Journal	**2012**	*103*	1585-1593
G. Zimmermann, B. Papke, S. Ismail, N. Vartak, A. Chandra, M. Hoffmann, S. A. Hahn, G. Triola, A. Wittinghofer, P. I. H. Bastiaens, H. Waldmann	Small molecule inhibition of the Kras-PDEδ interaction impairs oncogenic KRAS signalling	Nature	**2013**	*497*	638-642
B. Over, S. Wetzel, C. Grütter, Y. Nakai, S. Renner, D. Rauh, H. Waldmann	Natural-product-derived fragments for fragment-based ligand discovery	Nat. Chem.	**2013**	*5*	21-28
T. Voigt, C. Gerding-Reimers, T. T. N. Tran, S. Bergmann, H. Lachance, B. Schölermann, A. Brockmeyer, P. Janning, S. Ziegler, H. Waldmann	A Natural Product Inspired Tetrahydropyran Collection Yields Mitosis Modulators that Synergistically Target CSE1L and Tubulin	Angew. Chem. Int. Ed.	**2013**	*52*	410-414
M. Gersch, F. Gut, V.	The Mechanism of Caseinolytic	Angew. Chem. Int.	**2013**	*52*	3009-3014

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S. Korotkov, J. Lehmann, T. Böttcher, M. Rusch, C. Hedberg, H. Waldmann, G. Klebe, S. A. Sieber	Protease (ClpP) Inhibition	Ed.			
S. Ziegler, V. Pries, C. Hedberg, H . Waldmann	Review: Target Identification for Small Bioactive Molecules: Finding the Needle in the Haystack:	Angew. Chem. Int. Ed.	**2013**	*52*	2744-2792
P.-Y. Dakas, J. A. Parga, S. Höing, H. R. Schöler, J. Sterneckert, K. Kumar, H. Waldmann	Discovery of Neuritogenic Compound Classes Inspired by Natural Products	Angew. Chem. Angew. Chem. Int. Ed.	**2013**	*36* *52*	9755-9760 9576-9581
H. Takayama, Z.-J. Jia, Lea Kremer, J. O. Bauer, C. Strohmann, S. Ziegler, A. P. Antonchick, H. Waldmann	Discovery of Inhibitors of the Wnt and Hedgehog Signaling Pathways through the Catalytic Enantioselective Synthesis of an Iridoid-Inspired Compound Collection	Angew. Chem. Int. Ed.	**2013**	*52*	12404-12408
R. Narayan, J. O. Bauer, C. Strohmann, A. P. Antonchick, H. Waldmann	Catalytic Enantioselective Synthesis of Functionalized Tropanes Reveals Novel Inhibitors of Hedgehog Signaling	Angew. Chem. Int. Ed.	**2013**	*52*	12892-12896
S. Kapoor, A. Werkmüller, R. S. Goody, H. Waldmann, R. Winter	Pressure modulation of Ras-membrane interactions and intervesicle transfer	J. Am. Chem. Soc.	**2013**		6149-6156
M. Potowski, A. P. Antonchick, H. Waldmann	Catalytic asymmetric exo-selective [6+3] cycloaddition of iminoesters with fulvenes	Chem Comm.	**2013**	*49*	7800-7802
A. P. Antonchick, S. López-Tosco, J. Parga, S. Sievers, M. Schürmann, H. Preut, S. Höing, H. R. Schöler, J. Sterneckert, D. Rauh, H. Waldmann	Highly Enantioselective Catalytic Synthesis of Neurite Growth-Promoting Secoyohimbanes	Chemistry & Biology	**2013**	*20*	500-509
V. Eschenbrenner-Lux, H. Dückert, V. Khedkar, H. Bruss, H. Waldmann, K. Kumar	Cascade Syntheses Routes to the Centrocountins	Chem. – Eur. J.	**2013**	*19*	2294-2304
T. J. Zimmermann, M. Bürger, E. Tashiro, Y. Kondoh, N. E. Martinez, K. Görmer,	Boron-Based Inhibitors of Acyl Protein Thioesterases 1 and 2	ChemBioChem	**2013**	*14*	115-122

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S. Rosin-Steiner, T. Shimizu, S. Ozaki, N. Watanabe, D. Hall, I. R. Vetter, H. Osada, C. Hedberg, H. Waldmann					
T. J. Zimmermann, S. Roy, N. E. Martinez, S. Ziegler, C. Hedberg, H. Waldmann	Biology-Oriented Synthesis of a Tetrahydroisoquinoline-Based Compound Collection Targeting Microtubule Polymerization	ChemBioChem	**2013**	*14*	295-300
K. Weise, D. Huster, S. Kapoor, G. Triola, H. Waldmann, R. Winter	Gibbs energy determinants of lipoprotein insertion into lipid membranes: the case study of Ras proteins	Faraday Discuss.	**2013**	*161*	549-561
A. Werkmüller, G. Triola, H. Waldmann, R. Winter	Rotational and Translational Dynamics of Ras Proteins upon Binding to Model Membrane Systems	ChemPhysChem	**2013**	*14*	3698-3705
M. Köhnke, C. Delon, M. L. Hastie, U. T.T. Nguyen; Y.-W. Wu, H. Waldmann, R. S. Goody, J. J. Gorman, K. Alexandrov	Rab GTPase Prenylation Hierarchy and Its Potential Role in Choroideremia Disease. PLoS ONE 8(12): e81758. doi:10.1371/journal.pone.0081758	PLoS One	**2013**		doi:10.1371/journal.pone.0081758
J. Spiegel, P. M. Cromm, G. Zimmermann, T. N. Grossmann, H. Waldmann	Small molecule modulation of Ras signaling	Nat. Chem. Biol.	**2014**	*10*	613-622
J. Spiegel, P. M. Cromm, A. Itzen, R. S. Goody, T. N. Großmann, H. Waldmann	Direct Targeting of Rab-GTPase-Effector Interactions	Angew. Chem. Int. Ed.	**2014**	*53*	2498-2503
V. Eschenbrenner-Lux, P. Küchler, S. Ziegler, K. Kumar, H. Waldmann	An Enantioselective Inverse-Electron-Demand Imino-Diels-Alder Reaction	Angew. Chem Int. Ed. Angew. Chem.	**2014**	*53* *126*	2134-2137 2166-2169
F. Kolundžić, A. Murali, P. Pérez-Galan, J. O. Bauer, C. Strohmann, K. Kumar, H. Waldmann	A Cyclization-Rearrangement Cascade for the Synthesis of Structurally Complex Chiral Gold(I)-Aminocarbene Complexes	Angew. Chem. Int. Ed.	**2014**	*53*	8122-8126
V. Eschenbrenner-Lux, K. Kumar, H. Waldmann	The Asymmetric Hetero- Diels-Alder Reaction in the Syntheses of Biologically Relevant Compounds	Angew. Chem. Int. Ed./ Angew. Chemie	**2014**	*53/ 126*	11146-11157 11326-11337

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G. Lukinavičius, L. Reymond, E. D'Este, A. Masharina, F. Göttfert, H. Ta, A. Güther, M. Fournier, S. Rizzo, H. Waldmann, C. Blaukopf, C. Sommer, D. W. Gerlich, H.-D. Arndt, S. W. Hell, K. Johnsson	Fluorogenic probes for live-cell imaging of the cytoskeleton	Nature Methods	**2014**	*11*	731-737
H.van Hattum, H. Waldmann	Biology-Oriented Synthesis: Harnessing the Power of Evolution	J. Am. Chem. Soc.	**2014**	*136*	11853-11859
G. Zimmermann, C. Schultz-Fademrecht, P. Küchler, S. Murarka, S. Ismail, G. Triola, P. Nussbaumer, A. Wittinghofer, H. Waldmann	Structure Guided Design and Kinetic Analysis of Highly Potent Benzimidazole Inhibitors Targeting the PDEδ Prenyl Binding Site	J. Med. Chem.	**2014**	*57*	5435-5448
R. Narayan, M. Potowski, Z.-J. Jia, A. P. Antonchick, H. Waldmann	Catalytic Enantioselective 1,3-Dipolar Cycloadditions of Azomethine Ylides for Biology Oriented Synthesis	Acc. Chem. Res.	**2014**	*47*	1296-1310
S. Rizzo, H. Waldmann	Development of a Natural Product-Derived Chemical Toolbox for Modulation of Protein Function	Chem. Rev.	**2014**	*114*	4621-4639
N. Vartak, B. Papke, H. E. Grecco, L. Rossmannek, H. Waldmann, C. Hedberg, P. I. H. Bastiaens	The Autodepalmitoylating Activity of APT Maintains the Spatial Organization of Palmitoylated Membrane Proteins	Biophys. J.	**2014**	*106*	93-105
H.van Hattum, H. Waldmann	Chemical Biology Tools for Regulating RAS Signaling Complexity in Space and Time	Chemistry & Biology	**2014**	*21*	1185-1195
T. T.N. Tran, C. Gerding-Reimers, B. Schölermann, B. Stanitzki, T. Henkel, H. Waldmann, S. Ziegler	Podoverine A – a novel microtubule destabilizing natural product from the *Podophyllum* species	Bioorg. Med. Chem.	**2014**	*22*	5110-5116
S. Basu, H. Waldmann	Polymer supported synthesis of a natural product-inspired oxepane library	Bioorg. Med. Chem.	**2014**	*22*	4430-4444
H. Bruss, H. Schuster, R. Martinez, M. Kaiser, A. P.	Synthesis of the B-*seco* limonoid core scaffold	Beilstein J. Org. Chem.	**2014**	*10*	194-208

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V. Berg, M. Rusch, N. Vartak, A. Schauss, H. Waldmann, C. Hedberg, M. Hallek, C. P. Pallasch, P.I.H. Bastiaens, C.-M. Wendtner, L.P. Frenzel	miRs-138/ -424 control CD95-mediated cell death by targeting acyl protein thioesterases 1 and 2	Oncology Res. and Treatm.	**2014**	*37*	237
C. Klaus, U. Schneider, C. Hedberg, A.K. Schütz, J. Bernhagen, H. Waldmann, N. Gassler, E. Kaemmerer	Modulating effects of Acyl-CoA synthetase 5-derived mitochondrial Wnt2B palmitoylation on intestinal Wnt activity	World Journal of Gastroenterology	**2014**	*20*	14855-14864
S. Rizzo, V. Wakchaure, H. Waldmann	Natural Product-Derived and Natural Product-Inspired Compound Collections	Book chapter, S. Hanessian, ed. "Natural Products in Medicinal Chemistry, Wiley VCH	**2014**	*60*	43-80
Eschenbrenner-Lux, V., H. Waldmann, K. Kumar	Domino Reactions in Library Synthesis	Book Chapter, "Domino Reactions", Concepts for Efficient Organic Synthesis, ed. by Lutz Tietze, Wiley-VCH, 2014	**2014**		497-521
A. Vogel, J. Nikolaus, K. Weise, G. Triola, H. Waldmann, R. Winter, A. Herrmann, D. Huster	Interaction of the human N-Ras protein with lipid raft model membranes of varying degrees of complexity	Biol. Chem.	**2014**	*395*	779-789
S. Rao Vidadala, C. Golz, C. Strohmann, C.-G. Daniliuc, H. Waldmann	Highly Enantioselective Intramolecular 1,3-Dipolar Cycloaddition: A Route to Piperidino-Pyrrolizidines	Angew. Chem. Int. Ed.	**2015**	*54*	651-655
Y. Akbulut, H. J.Gaunt, K. Muraki, M. J. Ludlow,M. S. Amer, A. Bruns,N. S. Vasudev, L. Radtke, M. Willot, S. Hahn, T. Seitz, S. Ziegler, M. Christmann, D. J. Beech, H.Waldmann	(–)-Englerin is a Potent and Selective Activator of TRPC4 and TRPC5 Calcium Channels	Angew. Chem. Int. Ed.	**2015**	*54*	3787-3791
J. Švenda, M. Sheremet, L. Kremer,	Biology-Oriented Synthesis of a Withanolide-Inspired Compound	Angew. Chem. Int. Ed.	**2015**	*54*	5596-5602

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L. Maier, J. O. Bauer, C. Strohmann, S. Ziegler, K. Kumar, H. Waldmann	Collection Reveals Novel Modulators of Hedgehog Signaling				
S. Murarka, Z.-J. Jia, C. Merten, C.-G. Daniliuc, A. P. Antonchick, H. Waldmann	Rhodium(II)-Catalyzed Enantioselective Synthesis of Troponoids	Angew. Chem. Int. Ed.	**2015**	*54*	7653-7656
P. Schröder, F. Förster, S. Kleine, C. Becker, A. Richters, S. Ziegler, D. Rauh, K. Kumar, H. Waldmann	Neuritogenic Militarinone-Inspired 4-Hydroxypyridones Target the Stress Pathway Kinase Map4K4	Angew. Chem. Int. Ed.	**2015**	*54*	12398-12403
P. M. Cromm, J. Spiegel, T. N. Großmann, H. Waldmann	Review: Direct Modulation of Small GTPase Activity and Function	Angew. Chem. Int. Ed.	**2015**	*54/ 127*	13516-13537/ 13718-13741
A. Pahl, M. Lakemeyer, M.-T. Vielberg, M. W. Hackl,, J. Vomacka, V. S. Korotkov, M. L. Stein, C. Fetzner, K. Lorenz-Baath, K. Richter, H. Waldmann, M. Groll, S. A. Sieber	Reversible Inhibitors Arrest ClpP in a Defined Conformational State that Can Be Revoked by ClpX Association	Angew. Chem. Int. Ed.	**2015**	*54*	15892-15896
M. W. Hackl, M. Lakemeyer, M. Dahmen, M. Glaser, A. Pahl, K. Lorenz-Baath, T. Menzel, S. Sievers, T. Boettcher, I. Antes, H. Waldmann, S. A. Sieber	Phenyl Esters are Potent Inhibitors of Caseinolytic Protease P and Reveal a Stereogenic Switch for Deoligomerization	J. Am. Chem. Soc.	**2015**	*137*	8475-8483
A. Danda, K. Kumar, H. Waldmann	A general catalytic reaction sequence to access alkaloid-inspired indole polycycles	ChemComm	**2015**	*51*	7536-7539
Z.-J. Jia, C. G. Daniliuc, A. P. Antonchick, H. Waldmann	Phosphine-catalyzed dearomatizing [3+2] annulations of isoquinolinium methylides with allenes	ChemComm	**2015**	*51*	1054-1057
M. Potowski, C. Merten, A. P. Antonchick, H. Waldmann	Catalytic Aerobic Oxidation and Tandem Enantioselective Cycloaddition in Cascade Multicomponent Synthesis	ChemEurJ	**2015**	*21*	4913-4917

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H.-D. Arndt, S. Rizzo, C. Nöcker, V. N. Wakchaure, L.-G. Milroy, V. Bieker, A. Calderon, T. T. N. Tran, S. Brand, L. Dehmelt, H. Waldmann	Divergent solid-phase synthesis of natural product-inspired bipartite cyclodepsipeptides - Total synthesis of Seragamide A	Chem. – Eur. J.	**2015**	*21*	5311-5316
R. Meiß, K. Kumar, H. Waldmann	Divergent Gold()-Catalyzed Skeletal Rearrangements of 1,7-Enynes	Chem. – Eur. J.	**2015**	*21*	13526-13530
C. R. Bertozzi, B. R. Stockwell, S. Kubicek, B. C. Dickinson, C. J. Chang, C. Schultz, P. A. Silver, J. E. Gestwicki, G. Chiosis, A. Chattopadhyay, R. A. Butcher, S. B. Park, B. K. Shoichet, S. L. Flitsch, J. Zhang, D. R. Liu, Y. Onishi, E. Weerapana, A. H. Williams, C. He, A. Moroni, G. Thiel, Y.-T. Chang, H. Waldmann, M. Bogyo, L. B. Oddershede, A. Christopoulos, B. Imperiali, H. Ehrlich, X. Chen, J. A. Prescher	Voices of chemical biology	Nat. Chem. Biol.	**2015**	*11*	378-379
V. Berg, M. Rusch, N. Vartak, C. Jüngst, A. Schauss, H. Waldmann, C. Hedberg, C. P. Pallasch, P. I. H. Bastiaens, M. Hallek, C.-M. Wendtner, L. P. Frenzel	miRs-138 and -424 control palmitoylation-dependent CD95-mediated cell death by targeting acyl protein thioesterases 1 and 2 in CLL	Blood	**2015**	*125*	2948-2957
G. Vendrell-Navarro, F. Rúa, J. Bujons, A. Brockmeyer, P. Janning, S. Ziegler, A. Messeguer, H. Waldmann	Positional Scanning Synthesis of a Peptoid Library Yields New Inducers of Apoptosis that Target Karyopherins and Tubulin	ChemBioChem	**2015**	*16*	1580-1587
T. Mejuch, H. v. Hattum, G. Triola, M. Jaiswal, H. Waldmann	Specificity of Lipoprotein Chaperones for the Characteristic Lipidated Structural Motifs of their Cognate Lipoproteins	ChemBioChem	**2015**	*16*	2460-2465
A. Ursu, H. Waldmann	Hide and seek: identification and	Bioorg. Med. Chem.	**2015**	*25*	3079-3086

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	confirmation of small molecule protein targets	Lett.			
M. Potowski, C. Golz, C. Strohmann, A. P. Antonchick, H. Waldmann	Biology-oriented synthesis of benzopyrano[3,4-*c*]pyrrolidines	Bioorg. & Med. Chem.	**2015**	*23*	2895-2903
M. G. Sankar, L. Mantilli, J. Bull, F. Giordanetto, J. O. Bauer, C. Strohmann, H. Waldmann, K. Kumar	Stereoselective synthesis of a natural product inspired tetrahydroindolo[2,3-*a*] quinolizine compound library	Bioorg. & Med. Chem.	**2015**	*23*	2614-2620
S. Rao, H. Waldmann	One-pot synthesis of a natural product inspired pyrrolocoumarine compound collection by means of an intramolecular 1,3-dipolar cycloaddition as key step	Tetrah.Lett.	**2015**	*56*	3358-3360
G. Vendrell-Navarro, A. Brockmeyer, H. Waldmann, P. Janning, S. Ziegler	Identification of the targets of biologically active small molecules using quantitative proteomics	Chemical Biology: Methods and Protocols (ed. by J. E. Hempel, C. H. Williams, C. C. Hong)	**2015**		263-286
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
H. Xu, C. Golz, C. Strohmann, A. P. Antonchick, H. Waldmann	Enantiodivergent Combination of Natural Product Scaffolds Enabled by Catalytic Enantioselective Cycloaddition	Angew. Chem. Int. Ed.	**2016**	*55*	7761-7765
Y. Qian, M. Schürmann, P. Janning, C. Hedberg, H. Waldmann	Activity-Based Proteome Profiling Probes on Woodward's Reagent K with Distinct Target Selectivity	Angew. Chem. Int. Ed.	**2016**	*55*	7766-7771
L. Kötzner, M. Leutzsch, S. Sievers, S. Patil, H. Waldmann, Y. Zheng, W. Thiel, B. List	The Organocatalytic Approach to Enantiopure *2H*- and *3H*-Pyrroles: Inhibitors of the Hedgehog Signaling Pathway	Angew. Chem. Int. Ed.	**2016**	*55*	7693-7697
B.Papke, S. Murarka,	Identification of Pyrazolopyridazinones	Nature	**2016**		7:11360

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H. A. Vogel, P. Martin-Gago, M. Kovacevic, D. C. Truxius, E. K. Fansa, S. Ismail, G. Zimmermann, K. Heinelt, C. Schultz-Fademrecht, A. Al Saabi, M. Baumann, P. Nussbaumer, A. Wittinghofer, H. Waldmann, P. I. H. Bastiaens	as PDEδ Inhibitors	Communications			
P. M. Cromm, S. Schaubach, J. Spiegel, A. Fürstner, T. N. Großmann, H. Waldmann	Orthogonal ring-closing alkyne and olefin metathesis for the synthesis of small GTPase-targeting bicyclic peptides	Nature Communications	**2016**	*7*	11300
A. Ursu, D. J. Illich, Y. Takemoto, A. T. Porfetye, M. Zhang, A. Brockmeyer, P. Janning, N. Watanabe, H. Osada, I. R. Vetter, S. Ziegler, H. R. Schöler, H. Waldmann	Epiblastin A Induces Reprogramming of Epiblast Stem Cells Into Embryonic Stem Cells by Inhibition of Casein Kinase 1	Cell Chemical Biology	**2016**	*23*	494-507
D. J. Illich, M. Zhang, A. Ursu, R. Osorno, K.-P. Kim, J. Yoon, M. J. Arauzo-Bravo, G. Wu, D. Esch, D. Sabour, D. Colby, K. S. Grassme, J. Chen, B. Greber, S. Höing, W. Herzog, S. Ziegler, I. Chambers, S. Gao, H. Waldmann, H.R. Schöler	Distinct Signaling Requirements for the Establishment of ESC Pluripotency in Late-Stage EpiSCs	Cell Reports	**2016**	*15*	787-800
M. Schürmann, P. Janning, S. Ziegler, H. Waldmann	Small-Molecule Target Engagement in Cells	Cell Chemical Biology	**2016**	*23*	435-441
K. Tschapalda, Y.-Q. Zhang, L. Liu, K. Golovnina, T. Schlemper, T. O. Eichmann, M. Lal-Nag, U. Sreenivasan, J. McLenithan, S. Ziegler, C. Sztalryd, A. Lass, D. Auld, B. Oliver, H. Waldmann,	A Class of Diacylglycerol Acyltransferase 1 Inhibitors Identified by a Combination of Phenotypic High-throughput Screening, Genomics, and Genetics	EBioMedicine	**2016**	*8*	49-59

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Z. Li, M. Shen, M. B. Boxer, M. Beller					
M. Sellstedt, M. Schwalfenberg, S. Ziegler, A. P. Antonchick, H. Waldmann	Trienamine catalyzed asymmetric synthesis and biological investigation of a cytochalasin B-inspired compound collection	Org.& Biomol. Chem.	**2016**	*14*	50-54
P. Pérez-Gálan, H. Waldmann, K. Kumar	Building polycyclic indole scaffolds via gold(I)-catalyzed intra- and inter-molecular cyclization reactions of 1,6-enynes	Tetrahedron special issue Dr. Garg	**2016**	*72*	3647-3652
B. Sperlich, S.Kapoor, H. Waldmann, R. Winter, K. Weise	Regulation of K Ras4B Membrane Binding by Calmodulin	Biophysical Journal	**2016**	*111*	113-122
N. Erwin, B. Sperlich, G. Garivet, H. Waldmann, K. Weise, R. Winter	Lipoprotein Insertion into Membranes of Various Complexity: Lipid Sorting, Interfacial Adsorption and Protein Clustering	Phys. Chem. Chem. Phys.	**2016**	*18*	8954-8962
T. Mejuch, H. Waldmann	Synthesis of Lipidated Proteins (Review)	Bioconj. Chem.	**2016**	*27*	1771-1783
P. Schröder, J. O. Bauer, C. Strohmann, K. Kumar, H. Waldmann	Synthesis of an Iridoid-Inspired Compound Collection and Discovery of Autophagy Inhibitors	JOC	**2016**	*81*	10242-10255
M. Jaiswal, E. K. Fansa, S. K. Kösling, T. Mejuch, H. Waldmann, A. Wittinghofer	Novel Biochemical and Structural Insights into the Interaction of Myristoylated Cargo with Unc119 Protein and Their Release by Arl2/3	J. of Biol. Chem.	**2016**	*291*	20766-20778
P. M. Cromm, J. Spiegel, P. Küchler, L. Dietrich, J. Kriegesmann, M. Wendt, R. Goody, H. Waldmann, T.N. Grossmann	Protease-resistant and cell-permeable double-stapled peptides targeting the Rab8a GTPase	ACS Chemical Biology	**2016**	*11*	2375-2382
P.-Y. Dakas, H. Waldmann, K. Kumar	Natural Product Inspired Enantioselective Synthesis of Hexahydro-Aza-Pentalenones	Heterocycles	**2016**	*Vol. 93*	465-473
E. Valeur, S. M. Guéret, H. Adihou, R. Gopalakrishnan, M. Lemurell, H. Waldmann, Tom N. Großmann, A. T. Plowright	Review: New Modalities for Challenging Targets in Drug Discovery	Angew. Chem. Int. Ed/ Angew. Chem.	**2017**	*56/129*	10294-10323/ 10428-10459

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L. Laraia, K. Ohsawa, G. Konstantinidis, L. Robke, Y. Wu, K. Kumar, H. Waldmann	Discovery of Novel Cinchona-Alkaloid-Inspired Oxazatwistane Autophagy Inhibitors	Angew. Chem. Int. Ed.	**2017**	*56*	2145-2150
P. Martín-Gago, E.K. Fansa, C. H. Klein, S. Murarka, P. Janning, M. Schürmann, M. Metz, S. Ismail, C. Schultz-Fademrecht, M. Baumann, P.I.H. Bastiaens, A. Wittinghofer, H. Waldmann	A PDE6δ-KRas Inhibitor Chemotype with up to Seven H-Bonds and Picomolar Affinity that Prevents Efficient Inhibitor Release by Arl2	Angew. Chem. Int. Ed.	**2017**	*56*	2423-2428
Z.-J. Jia, C. Merten, R. Gontla, C. G. Daniliuc, A. P. Antonchick, H. Waldmann	General Enantioselective C–H Activation Through Efficiently Tunable Cyclopentadienyl Ligands	Angew. Chem. Int. Ed.	**2017**	*56*	2429-2434
T. Mejuch, G. Garivet, W. Hofer, N. Kaiser, E. K. Fansa, C. Ehrt, O. Koch, M. Baumann, S. Ziegler, A. Wittinghofer, H. Waldmann	Small Molecule Inhibition of the UNC119-Cargo Interaction	Angew. Chem. Int. Ed.	**2017**	*56*	6181-6186
L. Robke, L. Laraia, M. A. Carnero Corrales, G. Konstantinidis, M. Muroi, A. Richters, M. Winzker, T. Engbring, S. Tomassi, N. Watanabe, H. Osada, D. Rauh, H. Waldmann, Y.-W. Wu, J. Engel	Phenotypic Identification of a Novel Autophagy Inhibitor Chemotype Targeting Lipid Kinase VPS34	Angew. Chem. Int. Ed.	**2017**	*56*	8153-8157
M. Dwivedi; T. Mejuch; H. Waldmann, R. Winter	Lateral Organization of Host Heterogenous Raft-like Membranes Altered by the Myristoyl Modification of Tyrosine Kinase c-Src	Angew. Chem. Int. Ed.	**2017**	*56*	10511-10515
H. Xu, L. Laraia, L. Schneider, K. Louven, C. Strohmann, A. P. Antonchick, H. Waldmann	Highly Enantioselective Catalytic Vinylogous Propargylation of Coumarins Yields a Novel Autophagy Inhibitor Class	Angew. Chem. Int. Ed. Angew. Chem.	**2017**	*56* *129*	11232-11236 11384-11388
L. Kremer, C. Schultz-Fademrecht, M. Baumann, P.	Discovery of a Novel Hedgehog Signaling Pathway through Cell-based Compound Discovery and Target	Angew. Chem. Int. Ed.	**2017**	*56*	13021-13025

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Habenberger, A. Choidas, B. Klebl, S. Kordes, H. R. Schöler, J. Sterneckert, S. Ziegler, G. Schneider, H. Waldmann	Prediction				
Y.-C. Lee, S. Patil, C. Golz, C. Strohmann, S. Ziegler, K. Kumar, H. Waldmann	A ligand-directed divergent catalytic approach to establish structural and functional scaffold diversity	Nature Commun.	**2017**	*8*	DOI:10.1038/ncomms14043
A. Ursu, H. Schöler, H. Waldmann	Small-molecule phenotypic screening with stem cells	Nat. Chem. Biol.	**2017**	*13*	560-563
P. Martín-Gago, E.K. Fansa, M. Winzker, S. Murarka, P. Janning, C. Schuttz-Fademrecht, M.. Baumann, A. Wittinghofer, H. Waldmann	Covalent Protein Labeling at Glutamic Acids	Cell Chem. Biol.	**2017**	*24/5*	589-597e5
A. T. Plowright, C. Ottmann, M. Arkin, Y. P. Auberson, H. Timmerman, H. Waldmann	Joining Forces: The Chemical Biology-Medicinal Chemistry Continuum	Cell Chem. Biol.	**2017**	*24*	1058-1065
A. Sidarovich, C. L. Will, M. A. Anokhina, J. Ceballos, S. Sievers, D. E. Agafonov, T. Samatov, P. Bao, B. Kastner, H. Urlaub, H. Waldmann, R. Lührmann	Identification of a small molecule inhibitor that stalls splicing at an early step of spliceosome activation	eLife	**2017**	*6*	E23533
S. Mosalaganti, J. Keller, A. Altenfeld, M. Winzker, P. Rombaut, M. Saur, A. Petrovic, A. Wehenkel, S. Wohlgemuth, F. Müller, S. Maffini, T. Bange, F. Herzog, H. Waldmann, S. Raunser, A. Musacchio	Structure of the RZZ complex and molecular basis of its interaction with Spindly	J. Cell Biol.	**2017**	*216*	961-981
M. Dwivedi, T. Mejuch, H. Waldmann, R. Winter	The Myristoyl Modification of C-SRC Alters the Lateral Organization of Host Heterogenous Raft-Like Membranes	Bioph. J.	**2017**	*112 (3)*	326a

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S. Murarka, P. Martín-Gago, C. Schultz-Fademrecht, A. Al Saabi, M. Baumann, E. K. Fansa, S. Ismail, P. Nussbaumer, A. Wittinghofer, H. Waldmann	Development of Pyridazinone Chemotypes Targeting the PDEδ Prenyl Binding Site	Chem. Eur. J.	**2017**	*23/25*	6083-6093
N. E. Martinez, T.J. Zimmermann, C. Goosmann, T. Alexander, C. Hedberg, S. Ziegler, A. Zychlinsky, H. Waldmann	Tetrahydroisoquinolines: New Inhibitors of Neutrophil Extracellular Trap (NET) Formation	ChemBioChem	**2017**	*18 (10)*	888-893
T. Förster, S. López-Tosco, S. Ziegler, A. P. Antonchick, H. Waldmann	Enantioselective Organocatalytic Synthesis of a Secoyohimbane-Inspired Compound Collection with Neuritogenic Activity	ChemBioChem	**2017**	*18*	1098-1108
M. Sheremet, S. Kapoor, P. Schröder, K. Kumar, S. Ziegler, H. Waldmann	Small Molecules Inspired by the Natural Product Withanolides as Potent Inhibitors of Wnt Signaling	ChemBioChem	**2017**	*18*	1797-1806
L. Laraia, H. Waldmann	Natural Product Inspired Compound Collections: Evolutionary Principle, Chemical Synthesis, Phenotypic Screening, and Target Identification	DDT: Technologies	**2017**	*23*	75-82
P. Martín-Gago, E. K. Fansa, A. Wittinghofer, H. Waldmann	Structure-based development of PDEδ inhibitors	Biol. Chem.	**2017**	*398 (5-6)*	535-545
A. Pahl, H. Waldmann, K. Kumar	Exploring natural product fragments for drug and probe discovery	Chimia Int. J. Chem.	**2017**	*71*	653-660

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K. Muraki, K. Ohnishi, A. Takezawa, H. Suzuki, N. Hatano, Y. Muraki, N. Hamzah, R. Foster, H. Waldmann, P. Nussbaumer, M. Christmann, R. S. Bon, D. J. Beech	Na^+ entry through heteromeric TRPC4/C1 channels mediates (-) Englerin A-induced cytotoxicity in synovial sarcoma cells	Nature – Scientific Reports	**2017**	*7*	DOI:10.1038/s41598-017-17303-3
Z.-J. Jia, C. Merten, S. Murarka, L Knauer, C. Strohmann, H. Waldmann	Biology-Oriented Synthesis of Decahydro-4,8-epoxyazulene Scaffolds	Synlett (special issue, 80th birthday V. Snieckus)	**2017**	*28*	2918-2922
S. Murarka, C. Golz, C. Strohmann, A. P. Antonchick, H. Waldmann	Biology-Oriented Synthesis of 3,3-Spiro (2-tetrahydrofuranyl)-oxindoles	Synthesis	**2017**	*49*	87-95
G. Karageorgis, E. S. Reckzeh, J. Ceballos, M. Schwalfenberg, S. Sievers, C. Ostermann, A. Pahl, S. Ziegler, H. Waldmann	Chromopynones are pseudo natural product glucose uptake inhibitors targeting glucose transporters GLUT-1 and -3	Nat. Chem.	**2018**	*10*	1103-1111
Y.-C. Lee, K. Kumar, H. Waldmann	Minireview: Ligand-Directed Divergent Synthesis of Carbo- and Heterocyclic Ring Systems	Angew. Chem. Int. Ed.	**2018**	*57/130*	5212-5226/ 5308-5322
G. Shan, J. Flegel, H. Li. C. Merten, S. Ziegler, A. P. Antonchick, H. Waldmann	C-H Bond Activation for the Synthesis of Heterocyclic Atropisomers Yields Hedgehog Pathway Inhibitors	Angew. Chem. Int. Ed.	**2018**	*57*	14250-14254
Z.-J. Jia, G. Shan, C. G. Daniliuc, A. P. Antonchick, H. Waldmann	Enantioselective Synthesis of the Spirotropanyl Oxindole Scaffold through Bimetallic Relay Catalysis	Angew. Chem. Int. Ed.	**2018**	*57*	14493-14497
L. Robke,, Y. Futamura, G. Konstantinidis, J. Wilke, H. Aono, Z. Mahmoud, N. Watanabe, Y.-W. Wu, H. Osada L. Laraia, H. Waldmann	Discovery of the novel autophagy inhibitor Aumitin that targets mitochondrial complex I	Chem. Sci.	**2018**	*9*	3014 - 3022
V. Pries, C. Nöcker, D. Khan, P. Johnen, Z. Hong, A. Tripathi,	Target Identification and Mechanism of Action of Picolinamide and Benzamide Chemotypes with Antifungal Properties	Cell Chem. Biol.	**2018**	*25*	279-290

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A.-L. Keller, M. Fitz, F. Perruccio, I. Filipuzzi, S. Thavam, T. Aust, R. Riedl, S. Ziegler, F. Bono, G. Schaaf, V. A.Bankaitis, H. Waldmann, D. Hoepfner					
S. Höing, T.-Y Yeh, M. Baumann, N.E. Martinez, P. Habenberger, L. Kremer, H. C.A. Drexler, P. Küchler, P. Reinhardt, A. Choidas, M.-L. Zischinsky, G. Zischinsky, S. Nandini, A. P. Ledray, S. A. Ketcham, L. Reinhardt, M. Abo-Rady, M. Glatza, S. J. King, P. Nussbaumer, S. Ziegler, B. Klebl, T. A. Schroer, H. R. Schöler, H. Waldmann, J. Sterneckert	Dynarrestin, a Novel Inhibitor of Cytoplasmic Dynein	Cell Chem. Biol.	**2018**	*25*	357-369
S. Brand, S. Roy, P. Schröder, B. Rathmer, J. Roos, S. Kapoor, S. Patil, C. Pommerenke, T. Maier, P. Janning, S. Eberth, D. Steinhilber, D. Schade, G. Schneider, K. Kumar, S. Ziegler, H. Waldmann	Combined Proteomic and *In Silico* Target Identification Reveal a Role for 5-Lipoxygenase in Developmental Signaling Pathways	Cell Chem. Biol	**2018**	*25*	1095-1106
L. Laraia, L. Robke, H. Waldmann	Review: Bioactive compound collections: from design to target identification	Chem	**2018**	*4*	705-730
N. Erwin, M. Dwivedi, T. Mejuch, H. Waldmann, R. Winter	UNC119A Decreases the Membrane Binding of Myristoylated c-Src	ChemBioChem	**2018**	*19*	1482-1487
Z.-J. Jia, H. Takayama, Y. Futamura, H. Aono, J. O. Bauer, C. Strohmann, A. P. Antonchick, H. Osada, H. Waldmann	Catalytic Enantioselective Synthesis of a Pyrrolizidine-Alkaloid-Inspired Compound Collection with Antiplasmodial Activity	J. Org. Chem.	**2018**	*83*	7033-7041

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Y.-C. Lee, ,L. Knauer, K. Louven, C. Golz, C. Strohmann, H. Waldmann, K. Kumar	Gold(I)-Catalyzed and Nucleophile-Guided Ligand-directed Divergent Synthesis	Eur. J. Org. Chem..	**2018**		5688-5699
L. Robke, T. Rodriguez, P. Schröder, D. J. Foley, G. J. L. Bernardes, L. Laraia, H. Waldmann	Discovery of 2,4-dimethoxypyridines as novel autophagy inhibitors	Tetrahedron	**2018**	*74*	4531-4537
J. Wilke, T. Kawamura, N. Watanabe, H. Osada, S. Ziegler, H. Waldmann	Identification of cytotoxic, glutathione-reactive moieties inducing accumulation of reactive oxygen species via glutathione depletion	Bioorg. Med. Chem.	**2018**	*26*	1453-1461
P. Küchler, G. Zimmermann, M. Winzker, J. Janning, H. Waldmann, S. Ziegler	Identification of novel PDEδ interacting proteins	Bioorg. Med. Chem	**2018**	*26*	1426-1434
K. Kumar, H. Waldmann	Nature Inspired Small Molecules for Chemical Biology	Israel Journal of Chemistry Doi:10.1002/ijch.201800105	**2018**		
H. N. Rubaiy, T. Seitz, S. Hahn, A. Choidas, P. Habenberger, B. Klebl, K. Dinkel, P. Nussbaumer, H. Waldmann, M. Christmann	Identification of an (-)-englerin A analogue, which antagonizes (-)-englerin A at TRPC1/4/5 channels	B. J. Pharm.	**2018**	*175*	830-839
G. Karageorgis, H. Waldmann	Biology-Oriented Synthesis	Book Chapter in: “Chemical and Biological Synthesis:	**2018**		45-73

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		Enabling Approaches for Understanding Biology, ed. by Nick J. Westwood and Adam Nelson			
L. Laraia, H. Waldmann	Synthesis and target identification of natural product inspired compound collections	Book chapter "Chemical Biology of Natural Products"	**2018**		
E. S. Reckzeh, A. Brockmeyer, M. Metz, H. Waldmann, P. Janning	Target Engagement of Small Molecules: Thermal Profiling Approaches on Different Levels	In: Systems Chemical Biology, Methods and Protocols (Ziegler, Waldmann eds)	**2018**		73-92
S. Ziegler, H. Waldmann (editors)	Systems Chemical Biology, Methods and Protocols (Methods in Molecular Biology, Series Editor: John M. Walker)	Humana Press	**2018**		
H. Li, R. Gontla, J. Flegel, C. Merten, S. Ziegler, A. P. Antonchick, H. Waldmann	Enantioselective Formal C(sp^3)-H Bond Activation in the Synthesis of Bioactive Spiropyrazolone Derivatives	Angew. Chem. Int. Ed.	**2019**	*58*	307-311
V. Nemec, M. Hylsová, L. Maier, J. Flegel, S. Sievers, S. Ziegler, M. Schröder, B.-T. Berger, A. Chaikuad, B. Valciková, S. Uldrijan, S. Drápela, K. Soucek, H. Waldmann, S. Knapp, K. Paruch	Furo[3,2-b]pyridine – A Privileged Scaffold for Highly Selective Kinase Inhibitors and Effective Modulators of the Hedgehog Pathway	Angew. Chem. Int. Ed	**2019**	58	1062-1066
A. Friese, S. Kapoor, T. Schneidewind, S. Rao Vidadala, J. Sardana, A. Brause, T. Förster, M. Bischoff, J. Wagner, P. Janning, S. Ziegler, H. Waldmann	Chemical Genetics Reveals a Role of dCTP Pyrophosphatase 1 in Wnt Signaling	Angew. Chem. Int. Ed. https://doi.org/10.1002/anie.201905977	**2019**	58	13009-13013
A. Christoforow, J. Wilke, A. Binici, A. Pahl, C. Ostermann, S. Sievers, H. Waldmann	Design, Synthesis and Phenotypic Profiling of Pyrano-Furo-Pyridone Pseudo Natural Products	Angew. Chem. Int. Ed. 10.1002/anie.201907853 Angew. Chem. 10.1002/ange.201907853	**2019**	58	14715-14723
L. Kremer, E. Hennes, A. Brause, A. Ursu, L.	Discovery of the Hedgehog Pathway Inhibitor Pipinib	Angew. Chem. Int. Ed.	**2019**	58	16617-16628

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Robke, H. T. Matsubayashi, Y. Nihongaki, J. Flegel, I. Mejdrová, J. Eickhoff, M. Baumann, R. Nencka, P. Janning, S. Kordes, H. R. Schöler, J. Sterneckert, T. Inoue, S. Ziegler, H. Waldmann	that Targets PI4KIIIß				
J. Ceballos, M. Schwalfenberg, G. Karageorgis, E. S. Reckzeh, S. Sievers, C. Ostermann, A. Pahl, M. Sellstedt, J. Nowacki, M. A. Carnero Corrales, J. Wilke, L. Laraia, K. Tschapalda, M. Metz, D. A. Sehr, S. Brand, K. Winklhofer, P. Janning, S. Ziegler, H. Waldmann	Synthesis of Indomorphan Pseudo Natural Product Inhibitors of Glucose Transporters GLUT-1 and -3	Angew. Chem. Int. Ed.	**2019**	58	17016-17035
L. Laraia, A. Friese, D. P. Corkery, G. Konstantinidis, N. Erwin, W.Hofer, H. Karatas, L. Klewer, A. Brockmeyer, M. Metz, B. Schölermann, M. Dwivedi, L. Li, P. Rios-Munoz, M. Köhn, R. Winter, I. R. Vetter, S. Ziegler, P. Janning, Y.-W. Wu, H. Waldmann	The cholesterol transfer protein GRAMD1A regulates autophagosome biogenesis	Nat. Chem. Biol.	**2019**	*15*	710-720
T. Schneidewind, S. Kapoor, G. Garivet, G. Karageorgis, R. Narayan, G. Vendrell-Navarro, A. P. Antonchick, S. Ziegler, H. Waldmann	The Pseudo Natural Product Myokinasib is a Myosin Light Chain Kinase 1 Inhibitor with Unprecedented Chemotype	Cell Chem. Biol.	**2019**	26	512-523
E. S. Reckzeh, G. Karageorgis, M. Schwalfenberg, J. Ceballos, J. Nowacki, M.C.M. Stroet, A. Binici, L. Knauer, S. Brand, A. Choidas, C.	Inhibition of Glucose Transporters and Glutaminase Synergistically Impairs Tumor Cell Growth	Cell Chem. Biol. https://doi.org/10.1016/j.chembiol.2019.06.005	**2019**	26	1214-1228

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Strohmann, S. Ziegler, H. Waldmann					
G. Garivet, W. Hofer, A. Konitsiotis, C. Klein, N. Kaiser, T. Mejuch, E. Fansa, A. Wittinghofer, P. I.H. Bastiaens, H. Waldmann	Small-Molecule Inhibition of the UNC-Src Interaction Impairs Dynamic Src Localization in Cells	Cell Chem. Biol.	**2019**	26	842-851.e7
A. Friese, A. Ursu, A. Hochheimer, H. R. Schöler, H. Waldmann, J. M. Bruder	The Convergence of Stem Cell Technologies and Phenotypic Drug Discovery	Cell Chem. Biol.	**2019**	26	1050-1066
N. Kaiser, T. Mejuch, R. Fedoryshchak, P. Janning, E. W. Tate, H. Waldmann	Photoactivatable Myristic Acid Probes for UNC119-Cargo Interactions	ChemBioChem	**2019**	*20*	134-139
K. Kumar, H. Waldmann	Nature Inspired Small Molecules for Chemical Biology	Israel Journal of Chemistry Doi:10.1002/ijch.201800105	**2019**	*59*	41-51
T. Förster, E. Shang, K. Shimizu, E. Sanada, B. Schölermann, M. Hybecker, G. Hahne, M. Pascual Lopez-Alberca, P. Janning, N. Watanabe, S. Sievers, F. Giordanetto, T. Shimizu, S. Ziegler, H. Osada, H. Waldmann	2-Sulfonylpyrimidines target the kinesin HSET via cysteine alkylation	EJOC https://doi.org/10.1002/ejoc.201900586	**2019**		5486-5496
E. S.Reckzeh, A. Brockmeyer, M. Metz, H. Waldmann, P. Janning	Target Engagement of Small Molecules: Thermal Profiling Approaches on Different Levels	Methods Mol. Biol.	**2019**	*1888*	73-98
N. Kaiser, D. Corkery, Y. Wu, L. Laraia, H. Waldmann	Modulation of autophagy by the novel mitochondrial complex I inhibitor Authipyrin	Bioorg. Med. Chem.	**2019**	*27*	2444-2448
Y.-W. Wu, H. Waldmann	Toward the role of cholesterol and cholesterol transfer protein in autophagosome biogenesis	Autophagy DOI: 10.1080/15548627.2019.1666595	**2019**	*15:12*	2167-2168
P. Cromm, H. Adihou, S. Kapoor, M.	Lipidated Stapled Peptides Targeting the Acyl Binding Protein UNC 119	ChemBioChem	**2019**	*20*	2987-2990

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Vazquez-Chantada, P. Davey, D. Longmire, E. Hennes, W. Hofer, P. Küchler, E. Chiarparin, H. Waldmann, T. N. Grossmann					
T. Furuta, Y. Mizukami, L. Asano, K. Kotake, S. Ziegler, H. Yoshida, M. Watanabe, S. Sato, H. Waldmann, M. Nishikawa, M. Uesugi	Nutrient-Based Chemical Library as a Source of Energy Metabolism Modulators	ACS Chem. Biol.	**2019**	*14*	1860-1865
A.V. Pobbati, T. Mejuch, S. Charkaborty, H. Karatas, S. R. Bharath, S. M. Gueret, P.-A. Goy, G. Hahne, A. Pahl, S. Sievers, E. Guccione, H. Song, H. Waldmann, W. Hong	Identification of Quinolinols as Activators of TEAD-Dependent Transcription	ACS Chem. Biol.	**2019**	*14*	2909-2921
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 PDEδ 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.	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

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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.	Pseudo-natural products and natural product-inspired methods in chemical biology and drug discovery	Curr. Op.Chem. Biol.	**2020**	*56*	111-118

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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. Porfetye, M . Akbarzadeh,I. R. Vetter, H. Adihou, Hr Waldmann	Structure based design of bicyclic peptide inhibitors of RbAp48	Angew. Chem. Int. Ed.	**2021**	*60*	1813-1820

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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/advs.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

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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 *P. aeruginosa* 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
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,	The Pseudo-Natural Product Rhonin Targets RHOGDI1	Angew. Chem. Int.Ed.	**2022**	*61*	e202115193

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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					
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,	Phenotypic Discovery of Triazolo[1,5-c]quinazolines as a First-In-	J. Med. Chem.	**2022**	65	15263-15281

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