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MAX PLANCK INSTITUTE
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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.	The Enzymic Utilization of Sucrose in the Synthesis of Amylose and	Carbohydr. REs.	**1986**	*157*	C4-C7

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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

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	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**		

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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
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

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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
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	Biomed. Biochim. Acta	**1991**	*50*	243-248

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	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 **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	Nat. Prod. Lett.	**1993**	*2*	49

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	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	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
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

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	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 Hetrocycles 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**		

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	Catalysis in Organic Synthesis: A Comprehensive Handbook				
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 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

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	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

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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,	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
T. Kappes, H. Waldmann	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_2Cl_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

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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 enzymalbilen 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 Pepticinnamin 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 ß-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

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	Inhibitor Dysidiolide				
H. Schene, H. Waldmann	Activation of Glycosyl Phosphites under Neutral Conditions in Solutions of Metal Perchlorates in Organic Solvents	Eur. J. Org. Chem.	**1998**		1227-1230
K. Hinterding, A. Knebel, P. Herrlich, H. Waldmann	Synthesis and Biological Evaluation of Aeroplysinin Analogues: A new Class of Receptor Tyrosine Kinase Inhibitors	Bioorg. Med. Chem.	**1998**	*6*	1153-1162
T. Schmittberger, H. Waldmann	Organic Synthesis and Biological Signal Transduction	Synlett	**1998**		574-584
T. Pathak, H. Waldmann	Enzymes and Protecting Groups	Curr. Op. Chem. Biol.	**1998**	*2*	112-120
U. Schmid, H. Waldmann	$LiClO_4$ and Organic Solvents - Unusual Reaction Media	in „Organic Synthesis Highlights III“ (Hrsg.: J. Mulzer, H. Waldmann), Wiley-VCH	**1998**		205-210
D. J. Owen, K. Alexandrov, E. Rostkova, A. J. Scheidig, R. S. Goody, H. Waldmann	Chemoenzymatic Synthesis of Fluorescent Rab 7 Proteins; Tools for Studying Vesicular Trafficking in Cells	Angew. Chem. / Angew. Chem. Int. Ed.	**1999**	*111 / 38*	570-573 / 509-512
R. Müller, H. Goesmann, H. Waldmann	*N,N*-Phthaloylamino Acids as Chiral Auxiliaries in Asymmetric Mannich-Type Reactions	Angew. Chem. / Angew. Chem. Int. Ed.	**1999**	*111 / 38*	166-169 / 184-187
J. Sander, H. Waldmann	Chemoenzymatic Synthesis of a Characteristic Glycophosphopeptide from the Transactivation Domain of Serum Response Factor	Angew. Chem. / Angew. Chem. Int. Ed.	**1999**	*111 / 38*	1337-1339 / 1250-1252
F. Stieber, U. Grether, H. Waldmann	An Oxidation-Labile Traceless Linker for Solid-Phase Synthesis	Angew. Chem. / Angew. Chem. Int. Ed.	**1999**	*111 / 38*	1142-1145 / 1073-1077
B. Meseguer, D. Alonso-Díaz, N. Griebenow, T. Herget, H. Waldmann	Natural Product Synthesis on Polymeric Supports – Synthesis and Biological Evaluation of an Indolactam Library	Angew. Chem. / Angew. Chem. Int. Ed.	**1999**	*111 / 38*	3083-3087 / 2902-2906
P. Stahl, H. Waldmann	Asymmetric Synthesis of the Nakijiquinones - Selective Inhibitors of the Her-2/Neu Protooncogene	Angew. Chem. / Angew. Chem. Int. Ed.	**1999**	*111 / 38*	3935-3938 / 3710-3713

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K. Hinterding, P. Hagenbuch, J. Rétey, H. Waldmann	Synthesis and in vitro Evaluation of the Farnesyltransferase Inhibitor Pepticinnamin E	Chem. Eur. J.	**1999**	*5*	227-236
S. Flohr, V. Jungmann, H. Waldmann	Chemoenzymatic Synthesis of Nucleopeptides	Chem. Eur. J.	**1999**	*5*	669-681
A. Cotté, B. Bader, J. Kuhlmann, A. Wittinghofer, H. Waldmann	Synthesis of the N-Terminal Lipohexapeptide of Human G□o-Protein and Fluorescent Labeled Analogs for Biological Studies	Chem. Eur. J.	**1999**	*5*	922-936
M. Schelhaas, E. Nägele, N. Kuder, H. B. Bader, J. Kuhlmann, A. Wittinghofer, H. Waldmann	Chemoenzymatic Synthesis of Biotinylated Ras Peptides and their Use in Membrane Binding Studies of Lipidated Model Proteins by Surface Plasmon Resonance	Chem. Eur. J.	**1999**	*5*	1239-1252
F. Eisele, D. J. Owen, H. Waldmann	Peptide Conjugates as Tools for the Study of Biological Signal Transduction	Bioorg. Med. Chem.	**1999**	*7*	193-224
T. Schmittberger, H. Waldmann	Synthesis of Palmitoylated and Prenylated C-Terminal Lipopeptides of the human R- and N-Ras Proteins	Bioorg. Med. Chem.	**1999**	*7*	749-762
E. Bläser, P. Kolar, D. Fenske, H. Goesmann, H. Waldmann	Asymmetric Steering of Oxa Diels-Alder Reactions with Silyloxydienes Employing Proline Esters as Chiral Auxiliary Groups	Eur. J. Org. Chem.	**1999**	*1*	329-333
H. Schene, H. Waldmann	Synthesis of Deoxy Glycosides Under Neutral Conditions in $LiClO_4$/Solvent Mixtures	Synthesis	**1999**	*S1*	1411-1422
G. H. Müller, H. Waldmann	The Phenyl Hydrazide as an Enzyme-Labile Protecting Group - Oxidative Cleavage with Mushroom Tyrosinase	Tetrahedron Lett.	**1999**	*40*	3549-3552
K. Kuhn, H. Waldmann	Synthesis of Characteristic Palmitoylated Lipopeptides from Human Y_1 Receptor by a Combination of Enzyme-Labile and Pd(0)-Sensitive Protecting Groups	Tetrahedron Lett.	**1999**	*40*	6369-6372
I. Rubio, U. Wittig, C. Meyer,	Farnesylation of Ras is important for the interaction with phosphoinositide 3-kinase γ	Eur. J. Biochem.	**1999**	*266*	70-82

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R. Heinze, D. Kadereit, H. Waldmann, J. Downward R. Wetzker					
T. Pathak, H. Waldmann	Enzymatic Protecting Group Techniques in Organic Synthesis	in *Stereoselective Biocatalysis* (Hrsg.: R. Patel), Marcel Dekker, New York	**1999**		775-797
B. Bader, K. Kuhn, D. J. Owen, H. Waldmann, A. Wittinghofer, J. Kuhlmann	Bioorganic synthesis of lipid-modified proteins for the study of signal transduction	Nature	**2000**	*403*	223-226
M. Nazaré, H. Waldmann	Synthesis of the (9S,18R)-seco acid of the leukocyte adhesion inhibitor Cyclamenol A	Angew. Chem. / Angew. Chem. Int. Ed.	**2000**	*112 / 39*	1171-1174 / 1125-1128
R. Machauer, H. Waldmann	Synthesis of the N-Terminal N-Myristoylated and S-Palmitoylated Undetrigintapeptide of Endothelial NO-Synthetase	Angew. Chem. / Angew. Chem. Int. Ed.	**2000**	*112 / 39*	1503-1507 / 1449-1453
U. Grether, H. Waldmann	An Enzyme-Labile Safety Catch Linker for Combinatorial Synthesis on Soluble Polymeric Support	Angew. Chem. / Angew. Chem. Int. Ed.	**2000**	*112 / 39*	1688-1691 / 1629-1632
H. Waldmann, A. Wittinghofer	Ras, a Molecular Switch Involved in Tumor Formation	Angew. Chem. / Angew. Chem. Int. Ed.	**2000**	*112 / 39*	4360-4383 / 4192-4214
J. Sander, H. Waldmann	Enzymatic Protecting Group Techniques for Glyco- and Phosphopeptide Chemistry - Synthesis of a Glycophosphopeptide from Human Serum Response Factor	Chem. Eur. J.	**2000**	*6*	1564-1577
R. Müller, H. Röttele, H. Henke, H. Waldmann	Asymmetric Steering of the Mannich Reaction with Phthaloyl Amino Acids	Chem. Eur. J.	**2000**	*6*	2032-2043
B. Meseguer, D. Alonso-Díaz, N. Griebenow, T. Herget, H. Waldmann	Solid Phase Synthesis and Biological Evaluation of a Teleocidin Library – Discovery of a Selective PKCδ Down Regulator	Chem. Eur. J.	**2000**	*6*	3943-3957
A. G. Gum, T. Kappes-Roth, H. Waldmann	Enzyme-Labile Protecting Groups in Peptide Synthesis: Development of Glucose- and Galactose Derived	Chem. Eur. J.	**2000**	*6*	3714-3721

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	Urethanes				
N.H. Thomä, A. Iakovenko, D. Owen, A.S. Scheidig, H. Waldmann, R.S. Goody, K. Alexandrov	Phosphoisoprenoid Specificity of Rab Geranylgeranyltransferase II	Biochemistry	**2000**	*39*	12043-12052
D. Kadereit, J. Kuhlmann, H. Waldmann	Linking the Fields – The Interplay of Organic Synthesis, Biophysical Chemistry and Cell Biology in the Chemical Biology of Protein Lipidation	ChemBioChem	**2000**	*1*	144-169
D. Kadereit, H. Waldmann	Synthesis of Characteristic H-Ras Lipopeptides Employing Nobel Metal-, Acid- and Reduction Labile Blocking Groups	ChemBioChem.	**2000**	*3*	200-203
N. Kuder, T. Zelinski, T. Pathak, O. Seitz, H. Waldmann	Synthesis of a Triply Phosphorylated Pentapeptide from Human τ–Protein	Bioorg. Med. Chem.	**2000**	*8*	2433-2439
M. Nazaré, H. Waldmann	Enantioselective Synthesis of the Leukocyte Adhesion Inhibitor Cyclamenol A Seco Acid	Tetrahedron Lett.	**2000**	*41*	625-628
J. Spieler, O. Huttenloch, H. Waldmann	Synthesis of Chiral Amino Alcohols Embodying the Bispidine Framework and their Application as Ligands in Enantioselectively Catalyzed Additions to C=O and C=C Groups	Eur. J. Org. Chem.	**2000**	*3*	391-399
T. Kappes-Roth, H. Waldmann	Chemoenzymatic Synthesis of a Biotin-Labeled Glycophosphononapeptide of the c-Myc Oncoprotein	J. Chem. Soc., Perkin Trans	**2000**	*16*	2579-2581
H. Waldmann, M. Thutewohl	Ras-Farnesyltransferase-Inhibitors as Promising Anti-Tumor Drugs	Top. Curr. Chem.	**2000**	*211*	118-130
D. Kadereit, J. Kuhlmann, H. Waldmann	Organic Synthesis and Cell Biology	in *Stimulating Concepts in Chemistry* (Hrsg.: M. Shibaski, J.F. Stoddart, F. Vögtle), Wiley-VCH	**2000**		369-382
D. Kadereit, H. Waldmann	Chemoenzymatic Synthesis of Lipidated Peptides	Chemical Monthly	**2000**	*131*	571-584
H. Waldmann	Chemoenzymatic synthesis of lipidated peptide and protein conjugates: Tools for the study of biological signal	In: "Peptides for the New Millennium", (G.B. Fields, J.T.	**2000**		555-557

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	transduction	Tam, G. Barany eds.), Kluwer Academic Publishers, Dordrecht, Netherlands			
H. Waldmann	Bioorganische Synthese lipidierter Peptide und Proteine zum Studium der biologischen Signaltransduktion	Jahrbuch der Max-Planck-Gesellschaft", (Max-Planck-Gesellschaft, Ed.) Vandenhoeck & Ruprecht, Göttingen	**2000**		348-353
F. Eisele, J. Kuhlmann, H. Waldmann	Synthesis and Membrane-Binding Properties of a Characteristic Lipopeptide from the Membrane-Anchoring Domain of Influenza Virus A Hemagglutinin	Angew. Chem. / Angew. Chem. Int. Ed.	**2001**	*113 / 40*	382-386 / 369-373
D. Huster, K. Kuhn, D. Kadereit, H. Waldmann, K. Arnold	^{1}H High-Resolution Magic Angle Spinning NMR Spectroscopy for the Investigation of a Ras Lipopeptide in a Lipid Membrane	Angew. Chem. / Angew. Chem. Int. Ed.	**2001**	*113 / 40*	1083-1085 /1056-1058
K. Kuhn, D. J. Owen, B. Bader, A. Wittinghofer, J. Kuhlmann, H. Waldmann	Synthesis of Functional *Ras* Lipoproteins and Fluorescent Derivatives	J. Am. Chem. Soc.	**2001**	*123*	1023-1035
P. Stahl, L. Kissau, R. Mazitschek, A. Huwe, P. Furet, A. Giannis, H. Waldmann	Total Synthesis and Biological Evaluation of the Nakijiquinones	J. Am. Chem. Soc.	**2001**	*123*	11586-11593
D. Kadereit, H. Waldmann	Enzymatic Protecting Group Techniques	Chem. Rev.	**2001**	*101*	3367-3396
O. Huttenloch, J. Spieler, H. Waldmann	Chiral Bicyclic Phosphoramidites – A New Class of Ligands for Asymmetric Catalysis	Chem. Eur. J.	**2001**	*7*	671-675
D. Kadereit, P. Deck, I. Heinemann, H. Waldmann	Acid-labile Protecting Groups for the Synthesis of Lipidated Peptides	Chem. Eur. J.	**2001**	*7*	1184-1193
U. Grether, H. Waldmann	An Enzyme-labile Safety Catch Linker for Synthesis on a Soluble Polymeric Support	Chem. Eur. J.	**2001**	*7*	959-971

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R. Machauer, H. Waldmann	Synthesis of Lipidated eNOS Peptides by Combining Enzymatic, Noble Metal- and Acid Mediated Protecting Group Techniques with Solid Phase Peptide Synthesis and Fragment Condensation in Solution	Chem. Eur. J.	**2001**	*7*	2940-2956
M. Nazaré, H. Waldmann	Enantiospecific Synthesis of the (9*S*, 18*R*)-Diastereomer of the Leukocyte Adhesion Inhibitor Cyclamenol A	Chem. Eur. J.	**2001**	*7*	3363-3376
C. Arenz, M. Thutewohl, O. Block, H. Waldmann, H.-J. Altenbach, A. Giannis	Manumycin A and its Analogues are Irreversible Inhibitors of Neutral Sphingomyelinase	ChemBioChem	**2001**	*2*	141-143
H. Waldmann, M. Famulok	Chemistry meets Biology	ChemBioChem	**2001**	*2*	3-6
O. Seitz, I. Heinemann, A. Mattes, H. Waldmann	Synthetic Peptide Conjugates – Tailor-Made Probes for the Biology of Protein Modification and Protein Processing	Tetrahedron	**2001**	*57*	2247-2277
D. A. Jeyaraj, H. Waldmann	Synthesis of Nucleopeptides by an Enzyme Labile Urethane Protecting Group	Tetrahedron Lett.	**2001**	*42*	835-837
C. Rosenbaum, H. Waldmann	Solid Phase Synthesis of Cyclic Peptides by Oxidative Cyclative Cleavage of an Aryl Hydrazide Linker – Synthesis of Stylostatin 1	Tetrahedron Lett.	**2001**	*42*	5677-5680
R. Reents, D. A. Jeyaraj, H. Waldmann	Biocatalysis in Polymer-Supported Synthesis: Enzyme-labile Linker Groups	Adv. Synth. Catal.	**2001**	*343*	501-513
M. Völkert, M. Wagner, C. Peters, H. Waldmann	The Chemical Biology of Ras Lipidation	Bio. Chem.	**2001**	*382*	1133-1145
N. H. Thomä, A. Iakovenko, A. Kalinin, H. Waldmann, R. S. Goody, K. Alexandrov	Allosteric Regulation of Substrate Binding and Product Release in Geranylgeranyltransferase Type II	Biochemistry	**2001**	*40*	268-274
I. Heinemann, C. Katzka, H. Waldmann	„Sane in the membrane“ – Wie gelangen lipidierte Ras-Proteine in die Plasmamembran?	BIOforum	**2001**	*5*	324-327

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A. Rak, R. Reents, O. Pylypenko. A. Niculae, V. Sidorovitch, N. H. Thomä, H.Waldmann, I. Schlichting, R. S. Goody, K. Alexandrov	Crystallization and Preliminary X-ray Diffraction Analysis of the Rab Escort Protein-1 in Complex with Rab geranylgeranyltransferase	J. Struct. Biol.	**2001**	*136*	158-161
P. Stahl, L. Kissau, R. Mazitschek, A. Giannis, H. Waldmann	Natural Product Derived Receptor Tyrosine Kinase Inhibitors: Identification of IGF1R, Tie-2 and VEGFR-3 Inhibitors	Angew. Chem. / Angew. Chem. Int. Ed.	**2002**	*114 / 41*	1222-1226 / 1174-1178
D. Brohm, S. Metzger, A. Bhargava, O. Müller, F. Lieb, H. Waldmann	Natural Products are Biologically Validated Starting Points in Structural Space for Compound Library Development: Solid Phase Synthesis of Dysidiolide-Derived Phosphatase Inhibitors	Angew. Chem. / Angew. Chem. Int. Ed.	**2002**	*114 / 41*	319-323 / 307-311
L. Bialy, H. Waldmann	Synthesis of the Protein Phosphatase 2A Inhibitor (4S,5S,6S,10S,11S,12S)-Cytostatin	Angew. Chem. / Angew. Chem. Int. Ed.	**2002**	*114 / 41*	1819-1822 / 1748-1751
J. Kuhlmann, A. Tebbe, M. Wagner, K. Uwai, M. Völkert, H. Waldmann	Photoactivatable Synthetic Ras-Proteins: Baits for the Identification of Plasma-membrane Bound Binding Partners of Ras	Angew. Chem. / Angew. Chem. Int. Ed.	**2002**	*114 / 41*	2655-2658 / 2546-2550
R. P. Breinbauer, I. R. Vetter, H. Waldmann	From Protein Domains to Drug Candidates – Natural Products as Guiding Principles in the Design and Synthesis of Compound Libraries	Angew. Chem. / Angew. Chem. Int. Ed.	**2002**	*114 / 41*	3002-3015 / 2878-2890
M. Thutewohl, L. Kissau, B. Popkirova, I.-M. Karaguni, T. Nowak, M. Bate, J. Kuhlmann, O. Müller, H. Waldmann	Solid-Phase Synthesis and Biological Evaluation of a Pepticinnamin E Library	Angew. Chem. Int. Ed.	**2002**	*41*	3616-3620
F. Stieber, R. Mazitschek, N. Soric, A. Giannis, H. Waldmann	Traceless Solid-Phase Synthesis of 2-Aminothiazoles: Receptor Tyrosine Kinase Inhibitors with Dual Selectivity for Tie-2 and VEGFR-2	Angew. Chem. Int. Ed.	**2002**	*41*	4757-4761
K. Alexandrov, I. Heinemann. R. S.	Intein-Mediated Synthesis of Geranylgeranylated Rab7 Protein *In*	J. Am. Chem. Soc.	**2002**	*124*	5648-5649

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Goody, T. Durek, H. Waldmann	*Vitro*				
B. Ludolph, F. Eisele, H. Waldmann	Solid Phase Synthesis of Lipidated Peptides	J. Am. Chem. Soc.	**2002**	*124*	5954-5955
D. Brohm, N. Philippe, S. Metzger, A. Bhargava, O. Müller, F. Lieb, H. Waldmann	Solid Phase Synthesis of Dysidiolide-Derived Protein Phosphatase Inhibitors	J. Am. Chem. Soc.	**2002**	*124*	13171-13178
O. Huttenloch, E. Laxman, H. Waldmann	Combinatorial Development of Chiral Phosphoramidite-Ligands for Enantioselective Conjugate Addition Reactions	Chem. Comm.	**2002**		673-675
F. Stieber, H. Waldmann	Development of new acid-functionalized resins for combinatorial synthesis on solid supports	Chem. Comm.	**2002**	*16*	1748-1749
D.A. Jeyaraj, H. Prinz, H. Waldmann	Synthesis of Nucleopeptides by Employing an Enzyme Labile Urethane Protecting Group	Chem. Eur. J.	**2002**	*8*	1879-1887
F. Eisele, J. Kuhlmann, H. Waldmann	Synthesis and Membrane Binding Properties of a Lipopeptide Fragment from Influenza Virus A Hemagglutinin	Chem. Eur. J.	**2002**	*15*	3363-3376
O. Huttenloch, E. Laxman, H. Waldmann	Solid-Phase Development of Chiral Phosporamidite Ligands for Enantioselective Conjugate Addition Reactions	Chem. Eur. J.	**2002**	*8*	4767-4780
M. Völkert, S. Koul, G. H. Müller, M. Lehnig, H. Waldmann	Phenylhydrazide as an Enzyme-Labile Protecting Group in Peptide Synthesis	J. Org. Chem.	**2002**	*67*	6902-6910
B. Ludolph, F. Eisele, H. Waldmann	Solution-and Solid-Phase Synthesis of the Polybasic Lipid-Modified C-Termini of Rho A and K-Ras 4B	ChemBioChem	**2002**	*9*	901-904
L. Bialy, M. Lopez-Canet, H. Waldmann	Determination of the Relative Configuration of the C-2-C-1'-Fragment of Cytostatin	Synthesis (Special issue dedicated to Dieter Seebach)	**2002**	*14*	2096-2104
R. Reents, D.A. Jeyaraj, H. Waldmann	Enzymatically cleavable linker groups in polymer supported synthesis	Drug Discovery Today	**2002**	*7*	71-76
M. Scheck, H. Waldmann	Chemoenzymatic synthesis of the C_{15}-C_{23} unit of Leptomycin B	Can. J. Chem.	**2002**	*80*	571-576
D. Kadereit,	Introduction and Removal of Protecting	Enzyme Catalysis in	**2002**	*I-III*	1333-1417

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R. Reents, D. A. Jeyaraj, H. Waldmann	Groups	Organic Synthesis, Second Edition, Ed. by K. Drauz and H. Waldmann, Wiley-VCH, Weinheim			
T. Pathak, H. Waldmann	Enzymatically Cleavable Protecting Groups	In: *Houben-Weyl* „Methods of Organic Chemistry“, vol E22a (L. Moroder, M. Goodman, eds., Thieme-Verlag Stuttgart-New York	**2002**		295-314
C. Schultz, H. Gröger, C. Dinkel, K. Drauz, H. Waldmann	Biocatalysis and Enzyme-Analogous Processes	in „Applied Homogeneous Catalysis with Organometallic Compounds“, Second Edition, Ed. by B. Cornils und W. A. Hermann), Wiley-VCH	**2002**	*2*	872-911
R. P. Breinbauer, M. Manger, M. Scheck, H. Waldmann	Natural Product Guided Compound Library Development	Current Medicinal Chemistry	**2002**	*9*	2129-2145
H. Waldmann, R. P. Breinbauer	Nature provides the answer - Natural Product Structures as Guiding Principle in Combinatorial Chemistry	Screening	**2002**	*3*	46-48
C. Peters, M. Wagner, M. Völkert, H. Waldmann	Bridging the Gap Between Cell Biology and Organic Chemistry	Naturwissenschaften	**2002**	*89*	381-390
A. Rak, O. Pylypenko, T. Durek, A. Watzke, S. Kushnir, L. Brunsveld, H. Waldmann, R. S. Goody, K. Alexandrov	Structure of Rab GDP-Dissociation Inhibitor in Complex with Prenylated YPT1 GTPase	Science	**2003**	*302*	646-650
O. Pylypenko, A. Rak, R. Reents, A. Niculae, V. Sidorovitch, M.-D. Cioaca, E.	Structure of Rab Escort Protein-1 in Complex with Rab Geranylgeranyltransferase”,	Mol. Cell	**2003**	*11*	483-494

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Bessolitsyna, N. H. Thomä, H. Waldmann, I. Schlichting, R. S. Goody, K. Alexandrov					
A. Fürstner, F. Feyen, H. Prinz, H. Waldmann	Total Synthesis and Reassessment of the Phosphatase Inhibitory Activity of the Antitumor Agent TMC-69-6H	Angew. Chem. / Angew. Chem. Int. Ed.	**2003**	*115 / 42*	5519-5522 / 5361-5364
M. Köhn, R. Wacker, C. Peters, H. Schröder, L. Soulère, R. Breinbauer, C. M. Niemeyer, H. Waldmann	Staudinger-Ligation: A New Immobilization Strategy for the Preparation of Small Molecule Arrays	Angew. Chem. / Angew. Chem. Int. Ed.	**2003**	*115 / 42*	6010-6014 / 5830-5834
D. Huster, A. Vogel, C. Katzka, H. A. Scheidt, H. Binder, S. Dante, T. Gutberlet, O. Zschörnig, H. Waldmann, K. Arnold	Membrane Insertion of a Lipidated Ras Peptide Studied by FTIR, Solid-State NMR, and Neutron Diffraction Spectroscopy	J. Am. Chem. Soc.	**2003**	*125*	4070-4079
M. Völkert, K. Uwai, A. Tebbe, B. Popkirova, M. Wagner, J. Kuhlmann, H. Waldmann	Synthesis and Biological Activity of Photoactivatable N-Ras Peptides and –Proteins“	J. Am. Chem. Soc.	**2003**	*125*	12749-12758
L. Bialy, H. Waldmann	Synthesis and Biological Evaluation of Cytostatin Analogues	Chem. Commun.	**2003**	*15*	1872-1873
C. Rosenbaum, C. Katzka, A.Marzinzik, H. Waldmann	Traceless Fischer indole synthesis on the solid phase	Chem. Commun.	**2003**	*15*	1822-1823
F. Stieber, U. Grether, H. Waldmann	Development of the Traceless Phenylhydrazide-Linker for Solid-Phase Synthesis	Chem. Eur. J.	**2003**	*9*	3270-3281
F. Stieber, U. Grether, R. Mazitschek, N. Soric, A. Giannis, H. Waldmann	Multi-step Solid-Phase Synthesis of an Antibiotic and Receptor Tyrosine Kinase Inhibitors using the Traceless Phenylhydrazide Linker	Chem. Eur. J.	**2003**	*9*	3282-3291
B. Ludolph, H. Waldmann	The Synthesis of Acid- and Base-labile Lipopeptides on Solid Support	Chem. Eur. J.	**2003**	*9*	3683-3691

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C. Peters, H. Waldmann	Solid-Phase Synthesis of Peptide Esters Employing the Hydrazide Linker	J. Org. Chem.	**2003**	*15*	6053-6055
J. M. Gerdes, H. Waldmann	Direct Mass Spectrometric Monitoring of Solid Phase Organic Syntheses	J. Comb. Chem.	**2003**	*5*	814-820
L. Kissau, P. Stahl, R. Mazitschek, A. Giannis, H. Waldmann	Development of Natural Product Derived Receptor Tyrosine Kinase Inhibitors Based on Conservation of Protein Domain Fold	J. Med. Chem.	**2003**	*46*	2917-2931
M. Thutewohl, H. Waldmann	Solid Phase Synthesis of a Pepticinnamin E-Library	Bioorg. Med. Chem.	**2003**	*11 / 12*	2591-2615
M. Thutewohl, L. Kissau, B. Popkirova, I.-M. Karaguni, T. Nowak, M. Bate, J. Kuhlmann, O. Müller, H. Waldmann	Identification of Mono- and Bisubstrate Inhibitors of Protein Farnesyltransferase and Inducers of Apoptosis from a Pepticinnamin E Library	Bioorg. Med. Chem.	**2003**	*11 / 12*	2617-2626
H. Waldmann	At the Crossroads of Chemistry and Biology	Bioorg. Med. Chem.	**2003**	*11*	3045-3051
M. A. Koch, R. P. Breinbauer, H. Waldmann	Protein Structure Similarity as Guiding Principle for Combinatorial Library Design	Biol. Chem.	**2003**	*384*	1265-1272
S. Sommer, R. P. Breinbauer, H. Waldmann	Polymer-Supported Synthesis of Non-Oligomeric Natural Products	Organic Synthesis Highlights V, G. Schmalz, T. Wirth (Eds), Wiley-VCH	**2003**		395-408
H. Waldmann	Natürlich kombinatorisch – naturstoffgetriebene Wirkstoffentwicklung	Nachrichten aus der Chemie	**2003**	*2*	126-131
R. P. Breinbauer, I. R. Vetter, H. Waldmann	From Protein Domains to Drug Candidates – Natural Products as Guiding Principles in Compound Library Design and Synthesis	Ernst Schering Research Foundation, Workshop 42, **2003**, H. Waldmann, M. Koppitz (eds.)	**2003**		167-188
D. Huster, A. Vogel, C. Katzka, T. Gutberlet, S. Dante, H. Waldmann, K.. Arnold	Membrane Binding of a Lipidated Ras Peptide Studied by Solid-State NMR, and Neutron Diffraction.	Bioph. Journal	**2003**	*84*	131A
R. P. Breinbauer, M.	Naturstoffgetriebene kombinatorische	BIOspektrum, **2003**,	**2003**		478-479

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A. Koch, H. Waldmann	Chemie	*Sonderausgabe 9. Jahrgang*			
R. Reents, D. A. Jeyaraj, H. Waldmann	Biocatalyzed reactions on polymeric supports: Enzyme-labile linker groups	in: Polymeric Materials in Organic Synthesis and Catalysis, M. R. Buchmeiser (Ed.), Wiley-VCH	**2003**		445-466
C. Peters, A. Wolf, M. Wagner, J. Kuhlmann, H. Waldmann	The Cholesterol Membrane Anchor of the Hedgehog Protein Confers Stable Membrane Association to Lipid-Modified Proteins	Proc. Natl. Ac. Sci	**2004**	*101*	8531-8536
M. A. Koch, L.-O.Wittenberg, S. Basu, D.A. Jeyaraj, E. Gourzoulidou, K. Reinecke, A. Odermatt, H. Waldmann	**Compound library development guided by protein structure similarity clustering and natural product structure**	Proc. Natl. Ac. Sci	**2004**	*101*	16721-16726
C. Rosenbaum, P. Baumhof, R. Mazitschek, O. Müller, A. Giannis, H. Waldmann	Synthesis and Biological Evaluation of an Indomethacin Library Reveals a New Class of Angiogenesis-Related Kinase Inhibitors	Angew. Chem. / Angew. Chem. Int. Ed.	**2004**	*116 / 43*	226-230 / 224-228
O. Müller, E. Gourzoulidou, M. Carpintero, I.-M. Karaguni, A. Langerak, C. Herrmann, T. Möröy, L. Klein-Hitpaß, H. Waldmann	Identification of Potent Ras Signalling Inhibitors by Pathway-Selective Phenotype-Based Screening	Angew. Chem. / Angew. Chem. Int. Ed.	**2004**	*116 / 43*	456-460 / 450-454
H. Waldmann, I.-M. Karaguni, M. Carpintero, E. Gourzoulidou, C. Herrmann, C. Brockmann, H. Oschkinat, O. Müller	Sulindac-Derived Ras Pathway Inhibitors Target the Ras-Raf Interaction and Downstream Effectors in the Ras Pathway	Angew. Chem. / Angew. Chem. Int. Ed.	**2004**	*116 / 43*	460-464 / 454-458
R. Reents, M. Wagner, J. Kuhlmann, H. Waldmann	Synthesis and Application of Fluorescence-Labeled Ras-Proteins for Live-Cell Imaging	Angew. Chem. / Angew. Chem. Int. Ed.	**2004**	*116 / 43*	2765-2768 / 2711-2714

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O. Barun, S. Sommer, H. Waldmann	Asymmetric Solid-Phase Synthesis of 6,6-Spiroketals	Angew. Chem. / Angew. Chem. Int. Ed.	**2004**	*116 / 43*	3258-3261 / 3195-3199
G. Kragol, M. Lumbierres, J. M. Palomo, H. Waldmann	Solid-Phase Synthesis of Lipidated Peptides	Angew. Chem. / Angew. Chem. Int. Ed.	**2004**	*116 / 43*	5963-5966/ 5839-5842
S. Janosch, C. Nicolini, B. Ludolph, C. Peters, M. Völkert, Th. L. Hazlet, E. Gratton, H. Waldmann, R. Winter	Partitioning of Dual-lipidated Peptides into Membrane Microdomains – Lipid Sorting vs. Peptide Aggregation	J. Am. Chem. Soc.	**2004**	*126*	7496-7503
T. Durek, K. Alexandrov, R. S. Goody, A. Hildebrand, I. Heinemann, H. Waldmann	Synthesis of Fluorescently Labeled Mono- and Doubly Prenylated Rab7 GTPase	J. Am. Chem. Soc.	**2004**	*126*	16368-16378
A. Fürstner, J. Ruiz-Caro, H. Prinz, H. Waldmann	Structure Assignment, Total Synthesis and Evaluation of the Phosphatase Modulating Activity of Glucolipsin A	J. Org. Chem.	**2004**	*2*	459-467
L. Bialy, H. Waldmann	Total Synthesis and Biological Evaluation of the Protein Phosphatase 2A Inhibitor Cytostatin and Analogues	Chem. Eur. J.	**2004**	*10*	2759-2780
I.-M. Karaguni, E. Gourzoulidou, M. Carpintero, A. Langerak, L. Klein-Hitpaß, T. Möröy, G. Winde, H. Waldmann, O. Müller	SMAF-1 Inhibits the APC/β-Catenin Pathway and Shows Properties Similar to Those of the Tumour Suppressor Protein APC	ChemBioChem	**2004**	*5*	1267-1270
L. Soulère, C. Aldrich, O. Daumke, R. Gail, L. Kissau, A. Wittinghofer, H. Waldmann	Synthesis of GTP-Derived Ras-Ligands	ChemBioChem	**2004**	*10*	1448-1453
A. Fürstner, K. Reinecke, H. Prinz, H. Waldmann	The Core Structures of Roseophilin and the Prodigiosin Alkaloids Define a New Class of Protein Tyrosine Phosphatase Inhibitors	ChemBioChem	**2004**	*11*	1575-1579

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A. Fürstner, F. Feyen, H. Prinz, H. Waldmann	Synthesis and Evaluation of the Antitumor Agent TMC-69-6H and a focused library of Analogs	Tetrahedron	**2004**	*60*	9543-9558
R. Breinbauer, H. Waldmann	Solid and Solution Phase Combinatorial Chemistry – Preface	Tetrahedron	**2004**	*60*	8589
I. Heinemann, M. Völkert, H. Waldmann	Synthesis of Lipidated Peptides	Methods in Molecular Biology, Vol. 283: Bioconjugation Protocols: Strategies and Methods, C. Niemeyer (ed)., Humana Press	**2004**		221-232
O. Rocks, A. Peyker, M. Kahms, P. J. Verveer, C. Koerner, M. Lumbierres, J. Kuhlmann, H. Waldmann, A. Wittinghofer, P. I. H. Bastiaens	An Acylation Cycle Regulates Localization and Activity of Palmitoylated Ras Isoforms	Science	**2005**	*307*	1746-1752
M. A. Koch, A. Schuffenhauer, M. Scheck, M. Casaulta, A. Odermatt, P. Ertl, H. Waldmann	Charting Biologically Relevant Chemical Space: A Structural Classification of Natural Products (SCONP)	Proc. Natl. Ac. Sci.,	**2005**	*102*	17272-17277
L. Bialy, H. Waldmann	Inhibitors of Protein Tyrosine Phosphatase: Next Generation Drugs?"	Angewandte Chem./Angew. Chem. Int. Ed.	**2005**	*117 /44*	2-28/3815-3839
P. Deck, D. Pendzialek, M. Biel, M. Wagner, B. Popkirova, B. Ludolph, G. Kragol, J.. Kuhlmann, A. Giannis, H. Waldmann	Development and Biological Evaluation of Acyl Protein Thioesterase 1 (APT1) Inhibitors	Angew. Chem./Angew. Chem. Int. Ed.	**2005**	*117 / 44*	5055-5060/4975-4980
A. Vogel, C. Katzka, H. Waldmann, K. Arnold, M. F. Brown, D. Huster	Lipid Modifications of a Ras Peptide Exhibit Altered Packing and Mobility versus Host Membrane as Detected by ^{2}H Solid-State NMR	J. Am. Chem. Soc	**2005**	*127*	12263-12272
E. Bayer, M. Thutewohl, C.	Identification of *h*Pin1 inhibitors that induce apoptosis in a mammalian Ras	Chem. Comm.	**2005**	*4*	516-518

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Christner, T. Tradler, F. Osterkamp, H. Waldmann, P. Bayer	transformed cell line				
S. Sommer, H. Waldmann	Solid Phase Synthesis of a Spiro [5.5]ketal Library	Chem.Comm.	**2005**	*45*	5684-5686
L. Brunsveld, A. Watzke, T. Durek, K. Alexandrov, R. S. Goody, H. Waldmann	Synthesis of Functionalized RabGTPases by Combination of Solution and Solid Phase Lipopeptide Synthesis with Expressed Protein Ligation	Chem. Eur. J.	**2005**	*11*	2756-2772
M. Lumbierres, J. M. Palomo, G. Kragol, S. Roehrs, O. Müller, H. Waldmann	Solid-Phase Synthesis of Lipidated Peptides	Chem. Eur. J.	**2005**	*11*	7405-7415
R. Reents, M. Wagner, St. Schlummer, J. Kuhlmann, H. Waldmann	Synthesis and Application of Fluorescent Ras-Proteins for Live Cell Imaging	ChemBioChem	**2005**	*6*	86-94
E. Gourzoulidou, M . Carpintero, P. Baumhof, A. Giannis, H. Waldmann	Inhibition of Angiogenesis-Relevant Receptor Tyrosine Kinases by Sulindac Analogues	ChemBioChem	**2005**	*6*	527-531
M. Manger, M. Scheck, H. Prinz, J.-P. von Kries, T. Langer, K. Saxena, H. Schwalbe, A. Fürstner, J. Rademann, H. Waldmann	Discovery of Mycobacterium Tuberculosis Protein Tyrosine Phosphatase A (MptpA) Inhibitors Based on Natural Products and a Fragment-Based Approach	ChemBioChem	**2005**	*6*	1749-1753
A. Watzke, L. Brunsveld, T. Durek, K. Alexandrov, A. Rak, R.S. Goody H. Waldmann	Chemical Biology of Protein Lipidation: Semi-Synthesis and Structure Elucidation of Prenylated RabGTPases	Org. Biomol. Chem.	**2005**	*3*	11-57-1164
O. Barun, K. Kumar, S. Sommer, A. Langerak, T. U. Mayer, O. Müller. H. Waldmann	Natural Product Guided Synthesis of a Sprioacetal Collection Reveals Modulators of Tubulin Cytoskeleton Integrity	Eur. J. Org. Chem.	**2005**	*22*	4773-4788
C. Rosenbaum, S.	Modulation of MRP-1-Mediated	J. Med. Chem.	**2005**	*48*	1179-1187

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Röhrs, O. Müller, H. Waldmann	Multidrug Resistance by Indomethacin Analogues				
M. A. Koch, H. Waldmann	Protein structure similarity clustering and natural product structure as guiding principles in drug discovery	Drug Disc. Today	**2005**	*10*	471-483
B. E. Dursina, R. Reents, A. Niculae, A. Veligodsky, R. Breitling, K. Pyatkov, H. Waldmann, R. S. Goody, K. Alexandrov	A genetically encodable microtag for chemo-enzymatic derivatization and purification of recombinant proteins	Protein Expression and Purification	**2005**	*39*	71-81
R. Balamurugan, F. J. Dekker, H. Waldmann	Design of compound libraries based on natural product scaffolds and protein structure similarity clustering (PSSC)	Molecular BioSystems	**2005**	*1*	36-45
F. J. Dekker, M. A. Koch, H. Waldmann	Protein structure similarity clustering (PSSC) and natural product structure as inspiration sources for drug development and chemical genomics	Curr. Op. in Chem. Biol.	**2005**	*9*	232-239
R. S. Goody, T. Durek, H. Waldmann, L. Brunsveld, K. Alexandrov	Application of Protein Semi-synthesis for the Construction of Functionalised Posttranslationally Modified RabGTPases	Methods in Enzymology	**2005**	*403*	29-42
A. Rak, O. Pylypenko, T. Durek, A. Watzke, H. Waldmann, R.S. Goody, K. Alexandrov	Protein semi-synthesis and its application to studies of structure and function of GTPases	Biopolymers	**2005**	*80*	490
A. Vogel, C. Katzka, H. Waldmann, K. Arnold, M. F. Brown, D. Huster	Lipid Modifications of a Ras Peptide lead to alteration of bilayer packing and softness as detected by ^{2}H Solid-State NMR	Bioph. Journal	**2005**	*88*	26A
S.E. Feller, A. Vogel, H. Waldmann, Y. Arnold, D. Huster	Molecular dynamics simulation of a lipidated Ras peptide in membranes	Bioph. Journal	**2005**	*88*	422A
J. Hoffmann, Y. Feng, F. v. Hagen, A. Hillenbrand, J. Lin, R. Erber, P. Vajkoczy, E. Gourzoulidou, H Waldmann, A.	Endothelial survival factors and spatial completion, but not pericyte coverage of retinal capllaries determine vessel plasticity	FASEB Journal	**2005**	*19 (14)*	2035-2036

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Giannis, H. Wolburg, M. Shani, V. Jaeger, H.A .Weich, K..T. Preissner, S. Hoffmann, U. Deutsch, H.-P. Hammes					
A. Nören-Müller, I. Reis Corrêa Jr., H. Prinz, C. Rosenbaum, K. Saxena, H. Schwalbe, D. Vestweber, G. Cagna, S.Schunk, O. Schwarz, H. Schiewe, H. Waldmann	Discovery of New Protein Phosphatase Inhibitor Classes by Biology Oriented Synthesis (BIOS)	Proc. Natl. Acad. Sci.	**2006**	*103*	10606-10611
M. H. Gelb, L. Brunsveld, C. A. Hrycyna, S. Michaelis, F. Tamanoi, W. C. Van Voorhis, H. Waldmann	Therapeutic Intervention based on protein prenylation and associated modifications	Nature Chem. Biol.	**2006**	*2*	518-528
O. Pylypenko, A. Rak, T. Durek, S. Kushnir, B. E. Dursina, N. H. Thomae, A. T. Constantinescu, L. Brunsveld, A. Watzke, H. Waldmann, R. S. Goody, K. Alexandrov	Structure of doubly prenylated Ypt1: GDI complex and the mechanism of GDI mediated Rab recycling	Embo J.	**2006**	*25*	13-23
A. Dantas de Araújo, J. M. Palomo, J. Cramer, M. Köhn, H. Schröder, R. Wacker, C. M. Niemeyer, K. Alexandrov, H. Waldmann	Diels-Alder Ligation and Surface Immobilization of Proteins	Angew. Chem./Angew. Chem. Int. Ed.	**2006**	*118 / 45*	302-307/ 296-301
J. M. Palomo, M. Lumbierres, H. Waldmann	Efficient Solid-Phase Lipopeptide Synthesis Employing the Ellman Sulfonamide Linker	Angew. Chem./Angew. Chem. Int. Ed.	**2006**	*118 / 45*	491-495/477-481

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A. Watzke, M. Köhn, M. Gutierrez-Rodriguez, R. Wacker, H. Schröder, R. Breinbauer, J. Kuhlmann, K. Alexandrov, C. M. Niemeyer, R. S. Goody, H. Waldmann	Site-Selective Protein Immobilization by Staudinger Ligation	Angew. Chem. Int. Ed.	**2006**	*45*	1408-1412
L. Brunsveld, J. Kuhlmann, K. Alexandrov, A. Wittinghofer, R. S. Goody, H. Waldmann	Lipidated Ras and Rab Peptides and Proteins – Synthesis, Structure and Function (Review)	Angew. Chem. Int. Ed.	**2006**	*45*	6622-6646
G. Reuther, K.-T. Tan, J. Köhler, C. Nowak, A. Pampel, K. Arnold, J. Kuhlmann, H. Waldmann, D. Huster	Structural Model of the Membrane-Bound C-Terminus of Lipid-Modified Human N-Ras Protein	Angew. Chem. Int. Ed.	**2006**	*45*	5387-5390
B. D. Charette, R. G. MacDonald, S. Wetzel, D. B. Berkowitz, H. Waldmann	Protein Structure Similarity Clustering: Dynamic Treatment of PDB Structures Facilitates Clustering	Angew. Chem. Int. Ed.	**2006**	*45*	7766-7770
B. Dursina, R. Reents, M. Thutewohl, A. Veligodsky, A. Kalinin, V. Evstifeev, D. Ciobanu, S. E. Szedlacsek, H. Waldmann, R. S. Goody, K. Alexandrov	Identification and Specificity Profiling of Protein Prenyltransferase Inhibitors Using New Fluorescent Phosphoisoprenoids	J. Am. Chem. Soc.	**2006**	*128*	2822-2835
C. Nicolini, J. Baranski, S. Schlummer, J. Palomo, M. Lumbierres-Burgues, M. Kahms, J. Kuhlmann, S. Sanchez, E. Gratton, H. Waldmann, R.	Visualizing Association of N-Ras in Lipid Microdomains: Influence of Domain Structure and interfacial Adsorption	J. Am. Chem. Soc	**2006**	*128*	192-201

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G. Reuther, K.-T. Tan, A. Vogel, C. Nowak, K. Arnold, J. Kuhlmann, H. Waldmann, D. Huster	The Lipidated Membrane Anchor of Full Length N-Ras Protein Shows an Extensive Dynamics as Revealed by Solid-State NMR Spectroscopy	J. Am. Chem. Soc.	**2006**	*128*	13840-13846
A.-B. Garcia, T. Lessmann, J. Umarye, V. Mamane, S. Sommer, H. Waldmann	Stereocomplementary synthesis of a natural product-derived compound collection on the solid phase	ChemComm	**2006**		3868-3870
D. Gottlieb, C. Grunwald, C. Nowak, J. Kuhlmann, H. Waldmann	Intein-Mediated in vitro Synthesis of Lipidated Ras Proteins	ChemComm.	**2006**		260-262
T. Lessmann, H. Waldmann	Enantioselective Synthesis on the Solid Phase	ChemComm	**2006**		3380-3389
M. Biel, P. Deck, A. Giannis,H. Waldmann	Synthesis and Evaluation of Acyl-Protein Thioesterase 1 (APT1) Inhibitors	Chem. Eur. J.	**2006**	*12*	4121-4143
A. Dantas de Araújo, J. M. Palomo, J. Cramer, O. Seitz, K. Alexandrov, H. Waldmann	Diels-Alder Ligation of Peptides and Proteins	Chem. Eur. J.	**2006**	*12*	6095-6109
S. Basu, H. Waldmann	The Regioselectivity in the Formation of Small and Medium Sized Cyclic Ethers by Diene-Ene Ring Closing Metathesis	J. Org. Chem.	**2006**	*71*	3977-3979
M. A. Sanz, T. Voigt, H. Waldmann	Enantioselective Catalysis on the Solid Phase: Synthesis of Natural Product Derived Tetrahydropyrans Employing the Enantioselective Oxa-Diels-Alder Reaction^	Adv. Synth. Catal,	**2006**	*348*	1511-1515
S. Röttger, H. Waldmann	Solid Phase Synthesis of Decalin Scaffolds by Robinson Annulation with Immobilised Nazarov Reagents	Eur. J. Org. Chem.	**2006**		2093-2099
M. Lumbierres, J. M. Palomo, G. Kragol, H. Waldmann	Solid-Phase Synthesis of palmitoylated and farnesylated lipopetides employing the fluoride-labile PTMSEL linker	Tetrahedron Lett.	**2006**	*47*	2671-2674
D. Müller, A. Krick, S. Kehraus, C. Mehner,	Brunsvicamide A-C, Sponge-related Cyanobacterial Peptides with	J. Med. Chem	**2006**	*49*	4871-4878

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M. Hart, F. C. Küpper, K. Saxena, H. Prinz, H. Schwalbe, P. Janning, H. Waldmann, G. M. König	*Mycobacterium Tuberculosis* Protein Tyrosine Phosphatase Inhibitory Activity				
S. Schlummer, R. Vetter, N. Kuder, A. Henkel, Y.-X. Chen, Y.-M. Li, J. Kuhlmann, H. Waldmann	Influence of Serine-*O*-Glycosylation or *O*-Phoshorylation Close to the vJun Nuclear Localization Sequence on Nuclear Import	ChemBioChem	**2006**	*7*	88-97
Y.-W. Wu, H. Waldmann, R. Reents, F. H. Ebetino, R. S. Goody, K. Alexandrov	A Protein Fluorescence Amplifier: Continuous Fluorometric Assay for Rab Geranylgeranyltransferase	ChemBioChem	**2006**	*7*	1859-1861
T. Weide, L. Arve, H. Prinz, H. Waldmann, H. Kessler	3-Substituted Indolizine-1-carbonitrile Derivatives as Phosphatase Inhibitors	Bioorg. Med. Chem. Lett.	**2006**	*16*	59-63
A. Watzke, M. Gutierrez-Rodriguez, M. Köhn, R. Wacker, H. Schröder, R. Breinbauer, J. Kuhlmann, K. Alexandrov, C. M. Niemeyer, R. S. Goody, H. Waldmann	A Generic Building Block for C- and N-Terminal Protein-Labeling and Protein-Immobilization	Bioorg. Med. Chem.	**2006**	*14*	6288-6306
S. F. Seibert, E. Eguereva, A. Krick, S. Kehraus, E. Voloshina, G. Raabe, J. Fleischhauer, E. Leistner, M. Wiese, H. Prinz, K. Alexandrov, P. Janning, H. Waldmann, G. M. König	Polyketides from the marine-derived fungus Ascochyta salicorniae and their potential to inhibit protein phosphatases	Org. Biomol. Chem.	**2006**	*4*	2233-2240
A. Hemmerlin, R. Reents, J. Mutterer, J.-F. Feldtrauer, H. Waldmann, T. J. Bach	Monitoring farnesol-induced toxicity in tobacco BY-2 cells with a fluorescent analog	Arch. Biochem. and Biophys.	**2006**	*448*	93-103

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A. Meister, C. Nicolini, H. Waldmann, J. Kuhlmann, A. Kerth, R. Winter, A. Blume	Insertion of lipidated Ras Proteins Into lipid monolayers studied by infrared reflection absorption spectroscopy (IRRAS)	Biophys. J.	**2006**	*91*	1388-1401
L. Arve. T. Voigt, H. Waldmann	Charting Biological and Chemical Space: PSSC and SCONP as Guiding Principles for the Development of Natural Product Scaffold Based Compound Collections	QSAR Comb. Sci.	**2006**	*25*	449-456
M. A. Koch, H. Waldmann	Protein Domain Fold Similarity and Natural Product Structure as Guiding Principles for Compound Library Design	Ernst Schering Research Foundation, Workshop 58, S. Jaroch, H. Weinmann (eds.)	**2006**		89-109
L. Brunsveld, J. Kuhlmann, H. Waldmann	Synthesis of Palmitoylated Ras-Peptides and -Proteins	Methods	**2006**	*40*	151-165
H. Waldmann, R. Breinbauer, S. Arndt	Das Chemical Genomics Centre	Laborwelt	**2006**	*7*	42-43
H.-D. Arndt, C.M. Niemeyer, H. Waldmann	Chemical Biology Education in Dortmund: A Joint Endeavour with a Max Planck Institute	ACS Chem. Biol.	**2006**	*1*	407-410
F. Dekker, S. Wetzel, Hr. Waldmann	Natural Product Scaffolds and Protein Structure Similarity Clustering (PSSC) as Inspiration Sources for Compound Library Design in Chemogenomicx and Drug Development	Chemogenomics: An Emergine Strategy for Rapid Target and Drug Discovery	**2006**		59-84
Y.-W. Wu, K.-T. Tan, H. Waldmann, R. S. Goody, K. Alexandrov	Interaction analysis of prenylated Rab GTPase with Rab escort protein and GDP dissociation inhibitor explains the need for both regulators	PNAS	**2007**	*104*	12294-12299
D. Rauh, H. Waldmann	Linking Chemistry and Biology for the Study of Protein Function	Angew. Chem. Int. Ed.	**2007**	*46*	826-829
H. Schroeder, B. Ellinger, C. F. W. Becker, H. Waldmann, C. M. Niemeyer	Generation of Life-Cell Microarrays by Means of DNA-Directed Immobilization of Specific Cell- Surface Ligands	Angew. Chem. Int. Ed.	**2007**	*46*	4180-4183
M. Köhn, P.Jonkheijm, M. Gutierrez-Rodriguez,	A Microarray Strategy for Mapping of Protein Tyrosine Phosphatase Substrate Specificity	Angew. Chem. Int. Ed.	**2007**	*46*	7700-7703

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S. Wetzel, R. Wacker, H. Schröder, H.Prinz, C. M. Niemeyer, R. Breinbauer, S. E. Szedlacsek, H. Waldmann					
B. Bulic, M. Pickhardt, I. Khlistunova, J. Biernat, E.-M. Mandelkow, E. Mandelkow, H. Waldmann	Rhodanine-Based Tau Aggregation Inhibitors in Cell Models of Tauopathy	Angew. Chem. Int. Ed.	**2007**	*46*	9215-9219
T.-S. Hu, R. Tannert, H.-D. Arndt, H. Waldmann	Solid-phase based synthesis of Jasplakinolide analogs by intramolecular azide/alkyne cycloadditions	Chem. Comm.	**2007**	*38*	3942-3944
T. Lessmann, M. G. Leuenberger, S. Menninger, M. Lopez-Canet, O. Müller, S. Hümmer, J. Bormann, K. Korn, E. Fava, M. Zerial, T. U. Mayer, H. Waldmann	Natural Product-Derived Modulators of Cell Cycle Progression and Viral Entry by Enantioselective Oxa-Diels-Alder Reactions on the Solid Phase	Chem. & Biol.	**2007**	*14*	443-451
J. D. Umarye, T. Lessmann, A. B. Garcia, V. Mamane, S. Sommer, H. Waldmann	Biology-Oriented Synthesis of Stereochemically Diverse Natural-Product Derived Compound Collections by Iterative Allylations on the Solid Support	Chem. Eur. J.	**2007**	*13*	3305-3319
I. R. Corrêa Jr., A. Nören-Müller, H..-D. Ambrosi,S. Jakupovic, K. Saxena, H. Schwalbe,H.Prinz, M.Kaiser,H. Waldmann	Identification of Inhibitors for Mycobacterial Protein Tyrosine Phosphatase B (MptpB) by Biology-Oriented Synthesis (BIOS)	Chem. Asian J.	**2007**	*2*	1109-1126
U. T. T. Nguyen, J. Cramer, J. Gomis, R. Reents, M. Gutierrez-Rodriguez, R. S. Goody, K. Alexandrov, H.	Exploiting the Substrate Tolerance of Farnesyltransferase for Site-Selective Protein Derivatization	ChemBioChem	**2007**	*8*	408-423

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A. Schuffenhauer, P. Ertl, S. Roggo, S. Wetzel, M. A. Koch, H. Waldmann	The Scaffold Tree – Visualization of the Scaffold Universe by Hierarchical Scaffold Classification	J. Chem. Inf. Model.	**2007**	*47*	47-58
V. Mamane, A. B. García, J. D. Umarye, T. Lessmann, S. Sommer, H. Waldmann	Stereoselective allylation of aldehydes on solid support and its application in biology-oriented synthesis (BIOS)	Tetrahedron	**2007**	*63*	5754-5767
K. Hübel, A. Krämer, H. Waldmann	Effektive Arzneimittelentwicklung mit „natürlichen“ Substanz-bibliotheken	Laborwelt	**2007**	*3*	33-35
F. Bringezu, M. Majerowicz, S. Wen, G. Reuther, K.-T. Tan, J. Kuhlmann, H. Waldmann, D. Huster	Membrane Binding of a Lipidated N-Ras Protein Studied in Lipid Monolayers	Eur Biophys J	**2007**	*36*	491-498
S. Wetzel, A. Schuffenhauer, S. Roggo, P. Ertl, H. Waldmann	Cheminformatic Analysis of Natural Products and their Chemical Space	Chimia	**2007**	*61*	355-360
K. Bierhals, A. C. Sondersorg, C.-T. Lin, C. Rosenbaum, H. Waldmann, F. Wehner	The ε–Isoform of PKC Mediates the Hypertonic Activation of Cation Channels in Confluent Monolayers of Rat Hepatocytes	Cell Physiol Biochem	**2007**	*20*	397-404
A. Ulaczyk-Lesanko, E. Pelletier, M. Lee, H. Prinz, H. Waldmann, D.G. Hall	Optimization of Three- and Four-Component Reactions for Polysubstituted Piperidines. Application to the Synthesis and Preliminary Biological Screening of a Prototype Library	J. Comb. Chem.	**2007**	*9*	695-703
S. Broussy, H. Waldmann	Solid Phase Synthesis of Highly Substituted Tetrahydropyrans by Tandem ene- Reaction/Intromolecular Sakurai cyclisation	J. Comb. Chem.	**2007**	*9*	1138-1143
A. Vogel, K.-T Tan, H. Waldmann, S. E. Feller, M. F. Brown, D. Huster	Flexibility of Ras Lipid Modifications Studied by ^{2}H Solid-State NMR and Molecular Dynamics Simulations	Biophys. J.	**2007**	*93*	2697-2712
R. Tannert, M.	(S)-3-[(R)-2,4-Dimethylpent-4-enoyl]-4-	Acta	**2007**	*E63*	04381

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Schürmann, H. Preut, H.-D. Arndt, H. Waldmann	ispropyl-5,5-diphenyl-1,3-oxazolidin-2-one	Crystallographica Section E			
A. Pyriochou, S. Tsigkos, T. Vassilakopoulos, T. Cottin, Z. Zhou, E. Gourzoulidou, C. Roussos, H. Waldmann, A. Giannis, A. Papapetropoulos	Anti-angiogenic properties of a sulindac analogue	Br J Pharmacol	**2007**	*152*	1207-1214
Z. Guo, Y.-W. Wu, K.-T. Tan, R. S. Bon, E. Guiu-Rozas, C. Delon, U. T. Nguyen, S. Wetzel, S. Arndt, R. S. Goody, W. Blankenfeldt, K. Alexandrov, H. Waldmann	Development of Selective RabGGTase Inhibitors and Crystal Structure of a RabGGTase-Inhibitor Complex	Angew. Chem. Angew. Chem. Int. Ed.	**2008**	*120* *47*	3807-3810 3747-3750
P. Jonkheijm, D. Weinrich, M. Köhn, H. Engelkamp, P.C.M. Christianen, , J. Kuhlmann, J.C. Maan[3], D. Nüsse, H. Schroeder, R. Wacker, R. Breinbauer, C.M. Niemeyer, H. Waldmann	Photochemical Surface Patterning by Thiol-Ene Reaction	Angew. Chem. Angew. Chem. Int. Ed.	**2008**	*120* *47*	4493-4496 4421-4424
R. Mishra, B. Bulic, D. Sellin, S. Jha, H. Waldmann, and R. Winter	Small-Molecule Inhibitors of Islet Amyloid Polypeptide Fibril Formation	Angew. Chem. Int. Ed.,	**2008**	*47*	4679-4682
A. Nören-Müller, W. Wilk, K. Saxena, H. Schwalbe, M. Kaiser, H. Waldmann	Discovery of a New Class of *Mycobacterium tuberculosis* Protein Tyrosine Phosphatase B by Biology Oriented Synthesis	Angew. Chem. Angew. Chem. Int. Ed.	**2008**	*120* *47*	6061-6066 5973-5977
H. Waldmann, T.-S. Hu, S. Renner, S. Menninger R. Tannert, T. Oda, H.-D. Arndt	Total Synthesis of Condramide C and its Binding Mode to F-Actin	Angew. Chem. Int. Ed.	**2008**	*47*	6473-6477
H. Waldmann, V.	Asymmetric Synthesis of Natural	Angew. Chem. Int.	**2008**	*47*	6869-6872

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Khedkar, H. Dückert, M. Schürmann, I. M. Oppel, K. Kumar	Product Inspired Tricyclic Benzopyrones by an Organocatalyzed Annulation Reaction	Ed			
P. Jonkheijm, D. Weinrich, H. Schroeder, C. M. Niemeyer, H. Waldmann	Chemical Strategies for Generating Protein Biochips	Angew. Chem. Int. Ed., Angew. Chem.	**2008**	*47/ 120*	9618-9647/ 9762-9792 (dt.)
E. Wong, V. Okhonin, M. V. Berezovski, T. Nozaki, H. Waldmann, K. Alexandrov, S. N. Krylov	"Inject-Mix-React-Separate-and-Quantitate" (IMReSQ) Method for Screening Enzyme Inhibitors	J. Am Chem. Soc.	**2008**	*36*	11862-11863
Z. Wang, C. Gu, T. Colby, T. Shindo, R. Balamurugan, H. Waldmann, M. Kaiser, R. A. L. v. d. Hoorn	β–Lactone probes identify a papain-like peptide ligase in *Arabidopsis thaliana*	Nat. Chem. Biol.	**2008**	*4*	557-563
Z. Guo, Y.-W. Wu, D. Das, C. Delon, J. Cramer, S. Yu, S. Thuns, N. Lupilova, H. Waldmann, L. Brunsveld, R. S. Goody, K. Alexandrov, W. Blankenfeldt	Structures of RabGGTase-substrate/product complexes provide insights into the evolution of protein prenylation	EMBO J.	**2008**	*27*	2444-2456
H. Waldmann, M. Kühn, W. Liu, K. Kumar	Reagent controlled domino synthesis of skeletally diverse compound collections	ChemComm	**2008**	*10*	1211-1213
T. Govindaraju, P. Jonkheijm, L. Gogolin, H. Schroeder, C. F. W. Becker, C. M. Niemeyer, H. Waldmann	Surface immobilization of biomolecules by click sulfonamide reaction	ChemComm	**2008**	*10*	3723-3725
H. Waldmann, Y. He, H. Tan, L. Arve, H.-D. Andt	Flexible total synthesis of biphenomycin B	ChemCommun.	**2008**		5562-5564
N. Bisek, S. Wetzel,	Synthesis and Conformational	Chem. Eur J.	**2008**	*14*	8847-8860

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H.-D. Arndt, H. Waldmann	Analysis of Stevastelin C3 Analogs and Their Activity Against the Dual-SpecificVaccina H1-Related Phosphatase				
F. Wehner, A. Nören-Müller, O. Müller, I. Reis-Correa jr, A. Giannis, H. Waldmann	Indoloquinolizidine Derivatives as Novel and Potent Apoptosis Inducers and Cell-Cycle Blockers	ChemBioChem	**2008**	*9*	401-405
S. Sommer, M. Kühn, H. Waldmann	Solid-Phase Synthesis of [5.5]-Spiroketals	Adv. Synth. Catal.	**2008**	*350*	1736-1750
T. Walther, H.-D. Arndt, H. Waldmann	Solid-Support Based Total Synthesis and Stereochemical Correction of Brunsvicamide A	Org. Lett.	**2008**	*10*	3199-3202
H. Waldmann, G. V. Karanukar, K. Kumar	Gold (III)-Mediated Aldol Condensations Provide Efficient Access to Nitrogen Heterocycles	Org. Lett.	**2008**	*10*	2159-2162
G .Triola, L. Brunsveld, H. Waldmann	Racemization-free synthesis of *S*-alkylated cysteines *via* thiol-ene reaction	J. Org. Chem.	**2008**	*73*	3646-3649
M. Scheck, M. A. Koch, H. Waldmann	Synthesis of a dysidiolide-inspired compound library and discovery of acetylcholinesterase inhibitors based on protein structure similarity clustering (PSSC)	Tetrahedron	**2008**	*64*	4792-4802
J. Güldenhaupt, Y. Adigüzel , J. Kuhlmann, H. Waldmann, C. Kötting, K. Gerwert	Secondary structure of lipidated Ras bound to a lipid bilayer	FEBS Journal	**2008**	*23*	5910-5918
K. Hübel, T. Leßmann, H. Waldmann	Chemical biology - identification of small molecule modulators of cellular activity by natural product inspired synthesis	Chem. Soc. Rev.	**2008**	*37*	1361-1374
M. Kaiser, S. Wetzel, K. Kumar, H. Waldmann	Biology-Inspired synthesis of compound libraries	Cell.Mol. Life Sci:	**2008**	*65*	1186-1201
T. Lessmann, H. Waldmann	Asymmetric Synthesis on the Solid Phase	*Asymmetric Synthesis – The Essentials* (Eds.: M. Christmann, S. Bräse), Wiley-VCH, Weinheim	**2008**	*2nd ed.*	299-304

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K. Kumar, S. Wetzel, H. Waldmann	Biology Oriented Synthesis (BIOS) and Diversity Oriented Synthesis (DOS) in Compound Collection Development	The Practice of Medicinal Chemistry, 3rd Edition, Ed. Camille Georges Wermuth	**2008**	*3rd Ed.*	187-209
U. T. T. Nguyen, Z. Guo, C. Delon, Y. Wu, C. Deraeve, B. Fränzel, R. S. Bon, W. Blankenfeldt, R. S. Goody, H. Waldmann, D. Wolters, K. Alexandrov	Analysis of the eukaryotic prenylome by isoprenoid affinity-tagging"	Nat. Chem. Biol.	**2009**	*5*	227-235
S. Wetzel, K. Klein, S. Renner, D. Rauh, T. I. Oprea, P. Mutzel, H. Waldmann	Interactive exploration of chemical space with Scaffold Hunter	Nat. Chem. Biol.	**2009**	*5*	581-583
S. Renner, W. A. L.. van Otterlo, M. Dominguez Seoane, S. Möcklinghoff, B. Hofmann, S. Wetzel, A. Schuffenhauer, P. Ertl, T. I. Oprea, D. Steinhilber, L. Brunsveld, D. Rauh, H. Waldmann	Bioactivity-guided mapping and navigation of chemical space	Nat. Chem. Biol.	**2009**	*5*	585-592
H. Waldmann	Killing 84 birds with one stone	Nat. Chem. Biol. (News and Views)	**2009**	*5*	76-77
T. I. Oprea, C. G. Bologa, S. Boyer, R. F. Curpan, R. C. Glen, A. L. Hopkins, C. A. Lipinski, G. R. Marshall, Y. c. Martin, L. Ostopovici-Halip, G. Rishton, O. Ursu, R. J. Vaz, C. Waller, H. Waldmann, L. A. Sklar	A crowdsourcing evaluation of the NIH chemical probes	Nat. Chem. Biol.	**2009**	*5*	441-447
G. Siegel, G. Obernosterer, R. Fiore, S. Bicker, M. Christensen, S.	A functional screen implicates microRNA-138-dependent regulation of the depalmitoylation enzyme APT1 in dendritic spine morphogenesis	Nature Cell Biology	**2009**	*11*	705-730

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Khudayberdiev, P. F. Leuschner, C. J. L. Busch, C. Kane, K. Hübel, F. Dekker, C. Hedberg, B. Rengarajan, C. Drepper, H. Waldmann, S. Kauppinen, M. E. Greenberg, A. Draguhn, M. Rehmsmeier, J. Martinez, G. M. Schratt					
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
D. Weinrich, P. Jonkheijm, C. M. Niemeyer, H. Waldmann	Applications of Protein Biochips in Biomedical and Biotechnical Research	Angew. Chem. Int. Ed./ Angew. Chem.	**2009**	*48/ 121*	7744-7751/ 7880-7888
T. Knoth, K. Warburg, C. Katzka, A. Rai, A. Wolf, A. Brockmeyer, P. Janning, T. F. Reubold, S. Eschenburg, D. J. Manstein, K. Hübel, M. Kaiser, H. Waldmann	The Ras Pathway Modulator Melophlin A Targets Dynamins	Angew. Chem. Int. Ed / Angew. Chem.	**2009**	*48 / 121*	7240-7245 / 7376-7381
U. Westerlind, H. Schröder, A. Hobel, N. Gaidzik, A. Kaiser, C. M. Niemeyer, E. Schmitt, H. Waldmann, H. Kunz	Tumor-Associated MUC1 Tandem-Repeat Glycopeptide Microarrays to Evaluate Serum- and Monoclonal-Antibody Specificity	Angew. Chem. Int. Ed. / Angew. Chem.	**2009**	*48 / 121*	8263-8267 / 8413-8417
A. Vogel, G. Reuther, K. Weise, G. Triola, J. Nikolaus, K.-T. Tan, C. Nowak, A. Herrmann, H.	The Lipid Modifications of Ras that Sense Membrane Environments and Induce Local Enrichment	Angew. Chem. Int. Ed./ Angew. Chem.	**2009**	*48 / 121*	8784-8787 / 8942-8945

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Waldmann, R. Winter, D. Huster					
K. Weise, G. Triola, L. Brunsveld, H. Waldmann, R. Winter	Influence of the Lipidation motif on the Partitioning and Association of N-Ras in Model Membrane Subdomains	J. Am. Chem. Soc	**2009**	*131 (4)*	1557-1564
R. Tannert, T.-S. Hu, H.-D. Arndt, H. Waldmann	Solid-phase based total synthesis of Jasplakinolide by means of ring-closing metathesis methodology	ChemComm.	**2009**	*12*	1493-1495
M. Yoshida, C. Hedberg, M. Kaiser, H. Waldmann	Traceless solid phase synthesis of natural product inspired *cis*-1,2-dehydrodecalins	ChemComm.	**2009**	*20*	2926-2928
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
K.-T. Tan, E. Guiu-Rozas, R. S. Bon, Z. Guo, C. Delon, S. Wetzel, S. Arndt, K. Alexandrov, H. Waldmann, R.S. Goody, Y.-W.Wu, W. Blankenfeldt	Design, Synthesis and Characterization of Peptide-Based Rab Geranylgeranyl Transferase Inhibitors	J. Med. Chem.	**2009**	*52*	8025-8037
M. Alexander, M. Gerauer, M. Pechlivanis, B. Popkirova, R. Dvorsky, L. Brunsveld, H. Waldmann, J. Kuhlmann+	Mapping the Isoprenoid-binding pocket of PDEδ by a Semisynthetic, Photoactivatable N-Ras lLpoprotein	ChemBioChem	**2009**	*1*	98-108
T. Walther, S. Renner, H. Waldmann, H.-D. Arndt	Synthesis and Structure-Activity Correlation of a Brunsvicamide-Inspired Cyclopeptide Collection	ChemBioChem	**2009**	*10*	1153-1162
G. Triola, S. Wetzel, B. Ellinger, M. A. Koch, K. Hübel, D. Rauh, H. Waldmann	ATP competitive Iihibitors of D-Alanine-D-Alanine Ligase Based on Protein Kinase Inhibitor Scaffolds	Bioorg. Med. Chem.	**2009**	*17*	1079-1087
W. Wilk, H. Waldmann, M. Kaiser	γ-Pyrone natural products – A privileged compound class provided by nature	Biorg. Med. Chem.	**2009**	*17*	2304-2309
B. Ludolph, H. Waldmann	Solid-pPhase Synthesis of benzodiazepinediones mimicking the C-terminus of the H-Ras protein	Tetrahedron Letters	**2009**	*50*	3148-3150

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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
L. Brunsveld, H. Waldmann, D .Huster	Membrane Binding of lipidated Ras peptides and proteins – the structural point of view	Biochimica et Biochimica Acta – Biomembranes	**2009**	*1788*	273-288
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
H. Waldmann, P. Janning (eds.)	Chemical Biology – Learning through Case Studies	Wiley-VCH, Weinheim	**2009**		
F. J. Dekker, O. Rocks, N. Vartak, S. Menninger, C. Hedberg, R. Balamurugan, S. Wetzel, S. Renner, M. Gerauer, B. Schölermann, M. Rusch, J. W. Kramer, D. Rauh, G. W. Coates, L. Brunsveld, PIH Bastiaens, H. Waldmann	Small-molecule inhibition of APT1 affects Ras localization and signaling	Nat. Chem. Biol.	**2010**	*6*	449-456
Y.-Wu, L. K. Oesterlin, K.-T. Tan, H. Waldmann, K. Alexandrov, R. S. Goody	Membrane targeting mechanism of Rab GTPases elucidated by semisynthetic protein probes	Nat. Chem. Biol.	**2010**	*6*	534-540
A. P. Antonchick, C. Gerding-Reimers, M. Catarinella, M. Schürmann, H. Preut, S. Ziegler, D. Rauh, H. Waldmann	Highly enantioselective synthesis and cellular evaluation of spirooxindoles inspired by natural products	Nat. Chem.	**2010**	*2*	735-740
O. Rocks, M. Gerauer, N. Vartak, S. Koch, Z.-P-Huang, M. Pechlivanis, J. Kuhlmann L. Brunsveld, A.	The Palmitoylation Machinery is a Spatially Organizing System for Peripheral Membrane Proteins	Cell	**2010**	*141*	458-471

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Chandra, B. Ellinger, H. Waldmann, P. I. H. Bastiaens					
D. Weinrich, P.-C. Lin, P. Jonkheijm, U. T.T. Nguyen, H. Schröder, C. M. Niemeyer, K. Alexandrov, R. Goody, H. Waldmann	Oriented Immobilization of Farnesylated Proteins by the Thiol-Ene Reaction	Angew. Chem./ Angew. Chem. Int. Ed.,	**2010**	*122 / 49*	1274-1279/ 1252-1257
S. Wetzel, W. Wilk, S. Chammaa, B. Sperl, A. G. Roth, A. Yektaoglu, S. Renner, T. Berg, C. Arenz, A. Giannis, T. I. Oprea, D. Rauh, M. Kaiser, H. Waldmann	A Scaffold-Tree-Merging Strategy for Prospective Bioactivity Annotation of γ-Pyrones	Angew.Chem./ Angew. Chem Int. Ed.	**2010**	*122 / 49*	3748-3752 3666-3670
R. Rose, S. Erdmann, S. Bovens, A. Wolf, M. Rose, S. Hennig, H. Waldmann, C. Ottmann	Identification and Structure of Small-Molecule Stabilizers of 14-3-3 Protein-Protein Interactions	Angew.Chem. Int. Ed.	**2010**	*24*	4129-4132
Y.-C. Chen, S. Koch K. Uhlenbrock, , K. Weise, D. Das, L. Gremer, L. Brunsveld, A. Wittinghofer, R. Winter, G. Triola, H. Waldmann	Synthesis of the Rheb and K-Ras4B GTPases	Angew. Chem./ Angew. Chem. Int. Ed. –	**2010**	*122 / 49*	6226-6231 6090-6095
V.V. Vintonyak, K. Warburg, H. Kruse, S. Grimme, K. Hübel, D. Rauh, H. Waldmann	Identification of Thiazolidinones Spiro-Fused to Indolin-2-ones as Potent and Selective Inhibitors of *Mycobacterium tuberculosis* Protein Tyrosine Phosphatase B	Angew. Chem. Int. Ed.	**2010**	*49*	5902-5905
L. Yi, H. Sun, Y.-W. Wu, G. Triola, H. Waldmann, R. S. Goody	A Highly Efficient Strategy for Modification of Proteins at the C-Terminus	Angew. Chem. / Angew. Chem. Int. Ed.	**2010**	*122 / 49*	9607-9611 9417-9421
R. Tannert, L.-G. Milroy, B. Ellinger, T.-S. Hu, H.-D. Arndt, H. Waldmann	Synthesis and Structure-Activity Correlation of Natural-Product Inspired Cyclodepsipeptides Stabilizing F-Actin	J. Am. Chem. Soc.	**2010**	*9*	3063-3077

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H. Waldmann, L. Eberhardt, K. Wittstein, K. Kumar	Silver catalyzed cascade synthesis of alkaloid ring systems: concise total synthesis of fascaplysin, homofascaplysin C and analogues	ChemComm, invited communication for thematic issue: "Enzymes and Proteins"	**2010**	*46*	4622-4624
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
D. Weinrich, M. Köhn, P. Jonkheijm, U. Westerlind, L. Dehmelt, H. Engelkamp, P. C. M. Christianen, J. Kuhlmann, J. C. Maan, D, Nüsse, H. Schröder, R. Wacker, E. Voges, R. Breinbauer, H. Kunz, C. M. Niemeyer, H. Waldmann	Preparation of Biomolecule Microstructures and Microarrays by Thiol-ene-Photoimmobilization	ChemBioChem	**2010**	*11*	235-247
A. Robubi, H. Waldmann, D. Rauh	RAF Kinase Inhibitors in Cancer Treatment: Like a Bull in a China Shop?	ChemBioChem	**2010**	*11*	1645-1648
R. Bon, H. Waldmann	Bioactivity-Guided Navigation of Chemical Space	Accounts of Chemical Research	**2010**	*43*	1103-1114
Po-Chiao Lin, D. Weinrich, H. Waldmann	Protein Biochips: Oriented Surface Immobilization of Proteins	Macromol. Chem. Phys., Special Issue dedicated to the 80th birthday of Prof. H. Ringsdorf	**2010**	*2*	136-144
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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K. Görmer, H. Waldmann, G. Triola	Efficient Microwave-Assisted Synthesis of Unsymmetrical Disulfides	J. Org. Chem.	**2010**	*75*	1811-1813
A. Gohlke , G. Triola , H. Waldmann , R. Winter	Influence of the Lipid Anchor Motif of N-Ras on the Interaction with Lipid Membranes – a Surface Plasmon Resonance Study	Bioph. J.	**2010**	*98*	2226-2235
W. Wilk, T. J. Zimmermann, M. Kaiser, H. Waldmann	Principles, implementation and application of biology-oriented synthesis (BIOS)	Biol. Chem.	**2010**	*391*	491-497
K. Weise, G. Triola, S. Janosch, H. Waldmann, R. Winter	Visualizing association of lipidated signaling proteins in heterogeneous membranes – Partitioning into subdomains, lipid sorting, interfacial adsorption, and protein association	Biochimica et Biophysica Acta - Biomembranes	**2010**	*1798*	1409-1417
A. Vogel, G. Reuther, M. B. Roark, K..-T. Tan, H. Waldmann, D. Huster	Backbone conformational flexibility of the lipid modified membrane anchor of the human N-Ras protein investigated by solid-state NMR and molecular dynamics simulation	Biochimica et Biochimica Acta – Biomembranes	**2010**	*1798*	275-285
D. Weinrich, H. Waldmann	Methods for Site-Selective Chemical Protein Immobilization	Revisita de la Societat Catalana de Química	**2010**	*9*	47-50
A. Hakkim, T.A. Fuchs, N. E. Martinez, S. Hess, H. Prinz, A. Zychlinsky, H. Waldmann	Activation of the Raf-MEK-ERK-pathway is required for neutrophil extracellular trap formation	Nat. Chem. Biol	**2011**	*7*	75-77
S. A. Ismail, Y.-X. Chen, A. Rusinova, A. Chandra, M. Bierbaum, L. Gremer, G. Triola, H. Waldmann, P. I. H. Bastiaens, A. Wittinghofer	Arl2-GTP and Arl3-GTP regulate a GDI-like transport system for farnesylated cargo	Nature Chem. Biol.	**2011**	*7*	942-949
S. Basu, B. Ellinger, S. Rizzo, C. Deraeve, M. Schürmann, H. Preut, H.-D. Arndt, H. Waldmann	Biology-oriented synthesis of a natural-product inspired oxepane collection yields a small-molecule activator of the Wnt-pathway	Proc. Natl. Acad. Sci.	**2011**	*108*	6805-6810
L. Radtke, M. Willot, H. Sun, S. Ziegler, S. Sauerland, C.	Total Synthesis and Biological Evaluation of (-)-Englerin A and B:	Angew. Chem. Int. Ed.	**2011**	*17*	3998-4002

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Strohmann, R. Fröhlich, P. Habenberger, H. Waldmann, M. Christmann	Synthesis of Analogues with Improved Activity Profile				
R. S. Bon, Z. Guo, E. A. Stigter, S. Wetzel, S. Menninger, A. Wolf, A. Choidas, K. Alexandrov, W. Blankenfeldt, R. S. Goody, H. Waldmann	Structure-Guided Development of Selective RabGGTase Inhibitors	Angew. Chem. Int. Ed. Angew. Chem.	**2011**	*50 / 123*	4957-4961 / 5059-5063
Yi, L, Sun, H., Itzen, A., Triola, G., Waldmann, H., Goody, R.S., Wu, Y.-W.	One-Pot Dual-Labeling of a Protein via Two Chemoselective Reactions	Angew. Chem. Int. Ed.	**2011**	*50*	8287-8290
J. Stöckigt, A. P. Antonchick, F. Wu, H. Waldmann	Review: The Pictet-Spengler Reaction in Nature and in Organic Chemistry	Angew. Chem. Int. Ed./ Angew. Chem.	**2011**	*50 / 123*	8538-8564/ 8692-8719
K. Wittstein, K. Kumar, H. Waldmann	Gold(I) Catalyzed Synthesis of Benzoxocines *via* an 8-*endo*-dig Cyclization	Angew. Chem. Int. Ed. Angew. Chem.	**2011**	*50* *123*	9076-9079 9242-9246
C. Hedberg, F. J. Dekker, M. Rusch, S. Renner, S. Wetzel, N. Vartak, C. Gerding-Reimers, R. S. Bon, P. I. Bastiaens, H. Waldmann	Development of Highly Potent Inhibitors of the Ras-Targeting Human Acyl Protein Thioesterases Based on Substrate Similarity Design	Angew. Chem. Int. Ed.	**2011**	*50*	9832-9837
M. Rusch, T. J. Zimmermann, M. Bürger, F. J. Dekker, K. Görmer, G. Triola, A. Brockmeyer, P. Janning, T. Böttcher, S. A. Sieber, I. R. Vetter, C. Hedberg, H. Waldmann	Identification of Acyl Protein Thioesterases 1 and 2 as the Cellular Targets of the Ras-Signalling Modulators Palmostatin B and M	Angew. Chem. Int. Ed	**2011**	*50*	9838-9842
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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K. Weise, S. Kapoor, C. Denter, J. Nikolaus, N. Opitz, S. Koch, G. Triola, A. Herrmann, H. Waldmann, R. Winter	Membrane-Mediated Induction and Sorting of K-Ras Microdomain Signaling Platforms	J. Am. Chem. Soc.	**2011**	*133*	880-887
H. Schuster, R. Martinez, H. Bruss, A. P. Antonchick, M. Kaiser, M. Schürmann, H. Waldmann	Synthesis of the B-*seco* Limonoid Scaffold	Chem. Commun.	**2011**	*47 (23)*	6545-6547
H. Dückert, V. Khedkar,H. Waldmann, K. Kumar	Lewis Base Catalyzed [4 + 2]-Annulation of Electron-Deficient Chromone-Derived Heterodienes and Acetylenes	Chem. – Eur. J.	**2011**	*17*	5130-5137
Y.-P. He, Ha. Tan, L. Arve, S. Baumann, H. Waldmann, H.-D. Arndt	Biphenomycin B and Derivatives: Total Synthesis and Translation Inhibition	Chem. – Asian J.	**2011**	*6*	1546-1556
S. Möcklinghoff, W.A.L. van Otterlo, R. Rose, S. Fuchs, T. Zimmermann, M. Dominguez Seoane, H. Waldmann, C. Ottmann, L. Brunsveld	Design and Evaluation of Fragment-Like Estrogen Receptor Tetrahydroisoquinoline Ligands from a Scaffold-Detection Approach	J. Med. Chem.	**2011**	*54*	2005-2011
V. V. Vintonyak, H. Waldmann, D. Rauh	Using small molecules to target protein phosphatases	Bioorg. Med. Chem.	**2011**	*19*	2145-2155
B. K. Wagner, T. J. Gilbert, J.-i. Hanai, S. Imamura, N. E. Bodycombe, R. S. Bon, H. Waldmann, P. A. Clemons, V. P. Sukhatme, V. S. Mootha	A small-molecule screening strategy to identify suppressors of statin myopathy	ACS Chem. Biol.	**2011**	*6*	900-904
A. Richter, C. Hedberg, H. Waldmann	Enantioselective Synthesis of the C_{10}- to C_{20}-Fragment of Fusicoccin A	J. Org. Chem.	**2011**	*76*	6694-6702
V. Vintonyak, K. Warburg, B. Over, K. Hübel, D. Rauh, H. Waldmann	Identification and further development of thiazolidinones spiro-fused to indolin-2-ones as potent and selective inhibitors of *Mycobacterium*	Tetrahedron	**2011**	*67*	6713-6729

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	tuberculosis protein tyrosine phosphatase B				
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
H. Waldmann, H. Bruss, H. Dückert, K. Kumar	Synthesis of novel electron-deficient chromone-fused dienes *via* phosphine catalyzed [4+2] annulation	Tet. Lett	**2011**	*52*	2265-2267
S. Eisenberg, A. J. Beckett, I. A. Prior, F. J. Dekker, C. Hedberg, H. Waldmann, M. Ehrlich, Y. I. Henis	Raft Protein Clustering Alters N-Ras Membrane Interactions and Activation Pattern	Mol. Cell. Biol.	**2011**	*31*	3938-3952
T. Hakki, K. Hübel, H. Waldmann, R. Bernhardt	The development of a whole-cell based medium throughput screening system for the discovery of human aldosterone synthase (CYP11B2) inhibitors: Old drugs disclose new applications for the therapy of congestive heart failure, myocardial fibrosis and hypertension	J. Steroid Biochem. Mol Biol	**2011**	*125*	120-128
Y.-X. Chen, G. Triola, H. Waldmann	Bioorthogonal Chemistry for Site-Specific Labeling and Surface Immobilization of Proteins	Acc. Chem. Res.	**2011**	*44*	762-773
L. Eberhardt, K. Kumar, H. Waldmann	Exploring and Exploiting Biologically Relevant Chemical Space	Current Drug Targets	**2011**	*12*	1531-1546
A. Stigter, G. Triola, Roger S. Goody, H. Waldmann	Inhibition of Rab prenylation	The Enzymes Volume 30 Part B: Protein Prenylation, eds. C. A. Hrycyna, M. O. Berge, F. Tamanoi	**2011**		179-204
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.	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
J. D. Stewart, R. Marchan, M. S. Lesjak, J. Lambert, R. Hergenroeder, J. K. Ellis, C.-H, Lau, H. C. Keun, G. Schmitz, J. Schiller, M. Eibisch, C. Hedberg, H. Waldmann, E. Lausch, B. Tanner, J. Sehouli, J. Sagemueller, H. Staude, E. Steiner, J. G. Hengstler	Choline-releasing glycerophosphodiesterase EDI3 drives tumor cell migration and metastasis"	Proc. Natl. Acad. Sci.	**2012**	*109*	8155-8160
M. L. Sos, F. Dietlein, M. Peifer, J. Schöttle, H. Balke-Want, C. Müller, M. Koker, A. Richters, S. Heynck, F. Malchers, J. M. Heuckmann, D. Seidel, P. A. Eyers, R. T. Ullrich, A. P. Antonchick, V. V. Vintonyak, P. M. Schneider, T. Ninomiya, H. Waldmann, R. Büttner, D. Rauh, L.	A framework for identification of actionable cancer genome dependencies in small cell lung cancer	Proc. Natl. Acad. Sci.	**2012**	*109*	17034-17039

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C. Heukamp, R. K. Thomas					
L.-G. Milroy, S. Rizzo, A. Calderon, B. Ellinger, S. Erdmann, J. Mondry, P. Verveer, P. Bastiaens, H. Waldmann, L. Dehmelt, H.-D. Arndt	Selective Chemical Imaging of Static Actin in Live Cells	J. Am. Chem. Soc.	**2012**	*134*	8480-8486
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.	Impairment of prostate cancer cell growth by a selective and reversible lysine-specific demethylase 1 inhibitor	Internat. J. of Cancer	**2012**	*131*	2704-2709

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Imhof, A. Janzer, J. Kirfel, H. Waldmann, R. Schüle, R. Buettner					
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
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

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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. Martinez Gallegos, I. A. N. Tonaco, K. Hübel, P. J. Hussey, H. Waldmann, G. Coupland	Prieurianin/ endosidin 1 is an actin-stabilizing small molecule identified from a chemical genetic screen for circadian clock effectors in *Arabidopsis thaliana*	The Plant Journal	**2012**	*71*	338-352
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

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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. S. Korotkov, J. Lehmann, T. Böttcher, M. Rusch, C. Hedberg, H. Waldmann, G. Klebe, S. A. Sieber	The Mechanism of Caseinolytic Protease (ClpP) Inhibition	Angew. Chem. Int. Ed.	**2013**	*52*	3009-3014
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.	Catalytic Enantioselective Synthesis of Functionalized Tropanes Reveals Novel Inhibitors of Hedgehog Signaling	Angew. Chem. Int. Ed.	**2013**	*52*	12892-12896

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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, S. Rosin-Steiner, T. Shimizu, S. Ozaki, N. Watanabe, D. Hall, I. R. Vetter, H. Osada, C. Hedberg, H. Waldmann	Boron-Based Inhibitors of Acyl Protein Thioesterases 1 and 2	ChemBioChem	**2013**	*14*	115-122
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

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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
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

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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. Antonchick, H. Waldmann	Synthesis of the B-*seco* limonoid core scaffold	Beilstein J. Org. Chem.	**2014**	*10*	194-208
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.	miRs-138/ -424 control CD95-mediated cell death by targeting acyl protein thioesterases 1 and 2	Oncology Res. and Treatm.	**2014**	*37*	237

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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, L. Maier, J. O. Bauer, C. Strohmann, S. Ziegler, K. Kumar, H. Waldmann	Biology-Oriented Synthesis of a Withanolide-Inspired Compound Collection Reveals Novel Modulators of Hedgehog Signaling	Angew. Chem. Int. Ed.	**2015**	*54*	5596-5602

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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.	Positional Scanning Synthesis of a Peptoid Library Yields New Inducers of Apoptosis that Target Karyopherins and Tubulin	ChemBioChem	**2015**	*16*	1580-1587

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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 confirmation of small molecule protein targets	Bioorg. Med. Chem. Lett.	**2015**	*25*	3079-3086
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

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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, 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	Identification of Pyrazolopyridazinones as PDEδ Inhibitors	Nature Communications	**2016**		7:11360
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.	Distinct Signaling Requirements for the Establishment of ESC Pluripotency in Late-Stage EpiSCs	Cell Reports	**2016**	*15*	787-800

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Chen, B. Greber, S. Höing, W. Herzog, S. Ziegler, I. Chambers, S. Gao, H. Waldmann, H.R. Schöler					
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, Z. Li, M. Shen, M. B. Boxer, M. Beller	A Class of Diacylglycerol Acyltransferase 1 Inhibitors Identified by a Combination of Phenotypic High-throughput Screening, Genomics, and Genetics	EBioMedicine	**2016**	*8*	49-59
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

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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
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

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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. Habenberger, A. Choidas, B. Klebl, S. Kordes, H. R. Schöler, J. Sterneckert, S. Ziegler, G. Schneider, H. Waldmann	Discovery of a Novel Hedgehog Signaling Pathway through Cell-based Compound Discovery and Target Prediction	Angew. Chem. Int. Ed.	**2017**	*56*	13021-13025
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

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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
H. N. Rubaiy, M. J. Ludlow, M. Henrot, H. J. Gaunt, K. Miteva, S. Y. Cheung, Y. Tanahashi, N. Hamzah, K. E. Musialowski, N. M. Blythe, H. L. Appleby; M. A. Bailey, L. McKeown,	Picomolar, selective and subtype-specific small-molecule inhibition of TRPC1/4/5 channels	J. of Biol. Chem.	**2017**	*292 (20)*	8158-8173

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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
K. Muraki, K. Ohnishi, A. Takezawa, H. Suzuki, N. Hatano, Y. Muraki, N.	Na^+ entry through heteromeric TRPC4/C1 channels mediates (-) Englerin A-induced cytotoxicity in synovial sarcoma cells	Nature – Scientific Reports	**2017**	*7*	DOI:10.1038/s 41598-017-17303-3

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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

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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
S. Y. Cheung, M. Henrot, M. A-Saad, M. Baumann, H. Muller, A. Unger, H. N. Rubaiy, I. Mathar, K. Dinkel, P. Nussbaumer, B. Klebl, M. Freichel, B. Rode, S. Trainor, S. J. Clapcote, M. Christmann, H. Waldmann, S. K. Abbas, D. J. Beech, N.S. Vasudev	TRPC4/TRPC5 channels mediate adverse reaction to the cancer cell cytotoxic agent (-)-Englerin A	Oncotarget	**2018**	*9*	29634-29643
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	**2018**		

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		Doi:10.1002/ijch.201800105			
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: Enabling Approaches for Understanding Biology, ed. by Nick J. Westwood and Adam Nelson	**2018**		45-73
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.	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

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Waldmann, S. Knapp, K. Paruch					
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. Robke, H. T. Matsubayashi, Y. Nihongaki, J. FlegeI, I. Mejdrová, J. Eickhoff, M. Baumann, R. Nencka, P. Janning, S. Kordes, H. R. Schöler, J. Sterneckert, T. Inoue, S. Ziegler, H. Waldmann	Discovery of the Hedgehog Pathway Inhibitor Pipinib that Targets PI4KIIIß	Angew. Chem. Int. Ed.	**2019**	*58*	16617-16628
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

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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. Strohmann, S. Ziegler, H. Waldmann	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
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,	Photoactivatable Myristic Acid Probes for UNC119-Cargo Interactions	ChemBioChem	**2019**	*20*	134-139

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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. Vazquez-Chantada, P. Davey, D. Longmire, E. Hennes, W. Hofer, P. Küchler, E. Chiarparin, H. Waldmann, T. N. Grossmann	Lipidated Stapled Peptides Targeting the Acyl Binding Protein UNC 119	ChemBioChem	**2019**	*20*	2987-2990
T. Furuta, Y. Mizukami, L. Asano, K. Kotake, S. Ziegler, H. Yoshida, M. Watanabe, S. Sato, H. Waldmann, M. Nishikawa, M.	Nutrient-Based Chemical Library as a Source of Energy Metabolism Modulators	ACS Chem. Biol.	**2019**	*14*	1860-1865

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Uesugi

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. 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

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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. Waldmann	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.	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

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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 σ1 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 *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

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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

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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., Ketzel, 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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Flegel, J., Shaaban, S., Jia, Z., Schulte, B., Lian, Y., Krzyzanowski, A., Metz, M., Schneidewind, T., Wesseler, F., Flegel, A., Reich, A., Brause, A., Xue, G., Zhang, M., Dötsch, L., Stender, I., Hoffmann, J.-E., Scheel, R., Janning, P., Rastinejad, F., Schade, D., Strohmann, C., Antonchick, A., Sievers, S., Moura-Alves, P., Ziegler, S., Waldmann, H.	The Highly Potent AhR Agonist Picoberin Modulates Hh-Dependent Osteoblast Differentiation	J. Med. Chem.	**2022**	*65*	16268-16289
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 Grismonone	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

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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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Xie, J., Pahl, A., Krzyzanowski, A., Krupp, A., Liu, J., Koska, S., Schölermann, B., Zhang, R., Bonowski, J., Sievers, S., Strohmann, C., Ziegler, S., Grigalunas, M., Waldmann, H.	Synthetic Matching of Complex Monoterpene Indole Alkaloid Chemical Space	Angew. Chem. https://doi.org/10.1002/anie.202310222	**2023**	*135*	e202310222
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

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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, Strohmann, 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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Pahl, A., Liu, J., Patil, S., Rezaei Adariani, S., Schölermann, B., Warmers, J., Bonowski, J., Koska, S., Akbulut, Y., Seitz, C., Sievers, S., Ziegler, S., Waldmann, H.	Illuminating Dark Chemical Matter using the Cell Painting Assay	J. Med. Chem. https://doi.org/10.1021/acs.jmedchem.4c00160	**2024**	*67*	8862-8876
Heinzke, A.L., Pahl, A., Zdrazil, 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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Patil, S., Cremosnik, G., Dötsch, L., Flegel, J., Schulte, B., Maier, K.C., Žumer, K., Cramer, P., Janning, P., Sievers, S., Ziegler, S., Waldmann, H.	The Pseudo-Natural Product Tafbromin Selectively Targets the TAF1 Bromodomain 2	Angew. Chem. https://doi.org/10.1002/anie.202404645	**2024**	*63*	e202404645
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., Zdrazil, 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

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