



Chemical Sciences

Chemistry of Life

Grants Overview 2010 - 2016
Annex to Factsheet

Reference date: August 2016



Netherlands Organisation for Scientific Research

Spinoza Prize Winners

1998 Prof. J.H.J. Hoeijmakers (Erasmus University)

2010 Prof. P. Gros (Utrecht University)

2016 Prof. W.T.S. Huck (Radboud University Nijmegen)

Grants Talent Scheme

2010

Veni		
Dr. E. de Wit	Identifying distant functional regulatory elements in development using high-resolution 4C	KNAW-HIOS
Dr. I.K. Voets	Phase transitions in biological soft matter (BIOMATRA)	TUE
Dr. M. Srinivas	Seeing enzymes in action	UL
Dr. M.A.S. Hass	Cell therapy: what happens to these cells inside a patient?	RUMC
Dr. R. Gill	Squeezing out more light with silver nanoparticles	UT-MIRA

Vidi		
Dr. ir. P.K. Knipscheer	Repairing dangerous DNA damage	KNAW-HIOS
Dr. K. Kaufmann	Decoding cell identities	IWUR-PW
Dr. S. Mohammed	Decoding cellular communication	UO-OXFO

Vici		
Prof. dr. ir. J.C.M. van Hest	Kinetically controlled peptide-polymer artificial organelles	RU-IMM
Prof. dr. M.H. Baldus	Towards in-situ structural biology: Mapping folding and functional landscapes of cellular machines	UU-BWSK
Prof. dr. W.T.S. Huck	Picoliter droplets to mimic the chemical environment within cells	RU-IMM

2011

Veni		
Dr. ir. I.J.E. Stulemeijer	Finding readers that can decipher the epigenetic language of the chromatin core	NKI-AVL
Dr. ing. T. Wennekes	Getting a grip on microbial sialic acids in the human gut	WUR-AV
Dr. S. Abeln	Understanding toxic protein oligomers through ensemble characteristics	VU-EWI
Dr. A.J. Boersma	A novel approach to single-molecule chemistry using semi-synthetic protein nanopores	RUG-WN
Dr. R.P. Joosten	PDB_REDO: procedures for rebuilding and refinement of macromolecular models in X ray crystallography	NKI-AVL

Vidi		
Dr. ir. B.J.C. Janssen	Nervous repair stop; molecular mechanisms of CNS regeneration inhibition	UU-BWSK
Dr. F.J. Dekker	Expanding the molecular toolbox in anti-inflammatory drug discovery	RUG-GRIP
Dr. C.J.A. Danelon	A New Single Molecule Approach for the Construction of an Elementary Cell	TUD-TNWS

Vici		
Prof. dr. R.F. Ketting	RNAi and chromatin across generations	KNAW-HIOS
Dr. J.T.M. Kennis	Shedding light on the optogenetics toolbox	VU-EWNS

2012

Veni		
Dr. ir. T.F.A. de Greef	Supramolecular structure and function of large integral membrane proteins in their native environment at atomic-resolution	TUE-BT
Dr. M. Weingarh	Supramolecular structure and function of large integral membrane proteins in their native environment at atomic-resolution	UU-BWSK
Dr. M.D. Witte	Probing the role of sulfation	RUG-STRAT
Dr. W.A.M. Hoeijmakers	A chemoproteomics approach to dissect the readers and erasers of the Plasmodium epigenetic acetylome	RU-NCMLS
Dr. J.R.P.M. Strating	Greasing the viral life-cycle: the role of lipids in picornavirus replication	UU-DI
Dr. K. Djanashvili	All dressed up with somewhere to go: cell penetrating holmium nanoparticles for imaging and therapy of tumours	TUD-TNWBT
Dr. R.E. Kieltyka	Nucleic acids beyond the genetic code	UL-LIC
Dr. G.G. Gkouridis	Translocation at the single-molecule level	RUG-ZIAM

Vidi		
Dr. A.F.M. Altelaar	Network Medicine; Quantifying Proteome Wide Crosstalk	UU-BWFW
Dr. A. Pandit	In shape for photoregulation: molecular plasticity in photosynthesis	UL-LIC
Dr. D.P. Geerke	Novel in silico methods for predicting metabolite formation by Cytochrome P450 enzymes	VU-EWSF
Prof. dr. ir. P. Jonkheijm	Molecularly engineering the cell-surface interfaces	UT-TNW
Dr. A. Kortholt	Function and activation mechanism of LRRK2 and the understanding of Parkinson's disease	RUG-WN
Dr. L.J. Cruz Ricondo	Intelligent Nano-vehicles for Tracking and Selective Immunochemotherapy of Cancer	LUMC

Vici		
Prof. dr. W.L. de Laat	Genomics in single cells: shape and function of the genome	KNAW-HIOS

2013

Veni		
Dr. N.C. Hubner	Genomics in single cells: shape and function of the genome	RU-NCMLS
Dr. M.A. Hadders	Structure and Function of the Chromosomal Passenger Complex	UMCU
Dr. M.E. Aubin-Tam	Real-time tracking of toxin invasion	TUD-TNWNS
Dr. R. Ramautar	Probing a new volume regime in metabolomics with capillary electrophoresis-mass spectrometry	UL-LACDR
Dr. C.R. Berkers	Metabolomics of proteasome-modulating drugs	UU-BWSK
Dr. M.N. Melo	Breaking and entering: investigating peptide disruption of cell membranes	RUG-GBB
Dr. M. Kloz	Pioneering development of frequency domain two-dimensional Femtosecond stimulated Raman spectroscopy - automated mapping of intramolecular motions and intermolecular interactions between proteins and carotenoids during biological activity	VU-EWNS
Dr. ir. S. Lindhoud	Complex Coacervates as Novel Molecular Crowding Agents	UT-TNW
Dr. J. Bouwman	The Environmental Implications of the Oxidation of Persistent Organic Pollutants	RU-IMM

Vidi		
Dr. R.P. Joosten	3D-eiwitmodellen in evolutionair perspectief	NKI-AVL
Dr. C.P. Williams	The importance of export	RUG-WN
Dr. G.F. Schneider	Reading through proteins with graphene	UL-LIC
Dr. S.M. Lemeer	Elucidation of kinase inhibitor resistance in lung cancer	UU-BWSK
Dr. ir. I. Dijkgraaf	Heteromolecular chemokine interactions observed from outside of the box: lessons and tricks from ticks	CARIM
Dr. H. van Ingen	Unspinning chromatin: molecular mechanisms of chromatin remodeling	UL-LIC

Vici		
Prof. dr. H. Ovaa	Covalent Enzyme Capture	NKI-AVL

2014

Veni		
Dr. G. J. van der Heden-van Noort	Poly-ubiquitin; a chain of events unravelled	NKI-AVL
Dr. A.M. Ballesteros-Gómez	Safety behind the door? Fast screening of potentially toxic chemicals for assuring healthy homes	VU-IVM
Dr. L.X. Xue	Shrinking protein-RNA conformational space with artificial intelligence	UU-BWSK
Dr. F. Chiodo	Construction and exploration of modular goldnanoparticles for glycan-based immune-intervention of worm infections	UL-LIC
Dr. S. Nijmeijer	Stick Or Sprout in brain cancer? Unravel the biochemistry of adhesion-GPCRs	VU-EWSF
Dr. R.P. de Vries	Inhibiting the highly diverse receptor binding pocket of Influenza A Virus using its conserved ligand	UU-BWFW

Vidi		
Dr. A.K.H. Hirsch	Faster routes to developing new medicines	RUG
Dr. T. Wennekes	Healthy plants due to sweet underground communication	WUR
Dr. W. Szymanski	Controlling drugs with light	RUG
Dr. M.H. Weingarh	Structure biology comes home	UU
Dr. A. Guskov	New light on metal transport	RUG

Vici		
Dr. A. Kros	Understanding membrane fusion at the molecular level using a biomimetic model system	UL
Prof. dr. ir. L. Brunsveld	Synthetic Supramolecular Signalling Systems	TUE

2015

Veni		
Dr. A.A. Bastian	Fighting multidrug-resistant bacteria	RUG
Dr. M Jaehme	Structure, function and mechanism of Pnu type transporters	RUG
Dr. E. Spruijt	Growing artificial cells	RU
Dr. P.W.J.M. Frederix	New peptides for food, pharmaceuticals and functional materials	RUG
Dr. A.L. Boyle	Supramolecular detection and photodynamic control of substrate chirality	UL
Dr. Y. Hiruma	The molecular interactions allowing Mps1 to safeguard cell division	NKI
Dr. A.F.G. Gargano	Intact Protein Analysis (IPA)	UVA
Dr. C.E. Paul	Enhancing Nature's catalysts: new vitamins for enzymes	TUD

Vidi		
Dr. A.J. Boersma	Quantification and consequences of macromolecular crowding in living cells	RUG
Dr. D.A. Wilson	Launching Nanomotors for disease detection and treatment	RU
Dr. M.D. Witte	Novel approaches to develop phospholipase probes	RUG

Vici		
Prof. dr. ir. M.W. Fraaije	Vitamins for proteins: equipping enzymes with new cofactors	RUG
Dr. R.T. Dame	Dynamic bacterial chromatin organization: unraveling the code translating environmental cues to transcriptional changes	UL

2016

Veni		
Dr. S. Xiang	The Bam complex as a molecular cooper	UU
Dr. C.G. Spruijt	NuRD regulates development	RIMLS
Dr. D.H.M. Meijer	Molecular teamwork	UU
Dr. M.T.C. Walvoort	Attacking the bacterial sweet spot	RUG
Dr. D. Falck	High resolution glycoform analysis of immunoglobulin receptors: A key step towards translational and personalized medicine of antibody based biopharmaceuticals	UL
Dr. F. Versluis	Glycosylering van antilichaam receptoren en arthritis	LUMC

Grants TOP, TOP-PUNT and ECHO

2010 - 2011

TOP		
Prof. dr. A.P. IJzerman	The crystal structure of the adenosine A2A receptor: the follow up	UL-LACDR
ECHO		
Prof. dr. D.J. Slotboom	Bacterial ATP binding cassette (ABC) transporters for vitamin uptake with shared energizing modules	RUG-WN
Prof. dr. D. Weijers	The structural basis of DNA binding specificity within a transcription factor family	WUR-AV
Prof. dr. G.W. Somsen	Telling right from left: enantioselective characterization of biomolecules in complex mixtures	VU-EWSF
Prof. dr. S. de Vries	Cytochrome bd oxidases: From molecular mechanism to cellular function	TUD-TNWBT
Dr. D. ten Berge	Breaching the epigenetic barrier: Towards complete reprogramming of human cells by Wnt-mediated stabilization of naïve pluripotency	EMC
Dr. R.J. de Groot	Sweet attachment: structural and biological consequences of viral adaptation to specific sialic acid receptor determinants	UU-DI
Dr. C.P.M. van Mierlo	Exploration of the cotranslational folding of a ribosome-bound alpha-beta parallel protein	WUR-AV
Prof. dr. G.P. van Wezel	Positive control of cell division: from new concepts to molecular detail	UL-IBL
Prof. dr. A.M.J.J. Bonvin	Zooming into large assemblies: A versatile incorporation of experimental data into biomolecular docking	UU-BWSK
Prof. dr. S.J.L. van den Heuvel	Gene targeting tools for tissue-specific protein purification and analysis of the LIN-5 NuMA cell-division complex	UU-BWBI
Prof. dr. T.K. Sixma	Initiation of DNA mismatch repair	NKI-AVL
Dr. T.B. Dansen	Presenting the Thiolome: proteome-wide quantification of cysteine oxidation and identification of redox-mediated protein-protein interactions	UMCU-GL
Prof. dr. A.J.M. Driessen	Capture and Release of Polypeptides by the Bacterial Translocation Pore	RUG-WN
Prof. dr. T.J. Aartsma	Oxido-Reductases as Single Molecules	UL-WN
Prof. dr. ir. L. Brunsveld	Protein semi-synthesis and evaluation of post-translational modified nuclear receptor domains	TUE-BT
Dr. ir. M.A. Hink	Enhanced photoswitchable fluorescent proteins for quantitative single-molecule microscopy in the living cell	UvA-SILS

2011 - 2012

TOP		
Prof. dr. T.K. Sixma	Regulation of H2A ubiquitination	NKI-AVL
Prof. dr. W.L. de Laat	Waking the sleeping satellites the structure and function of pericentromeric heterochromatin	KNAW-HIOS

ECHO		
Prof. dr. S.J. Marrink	Hybrid Protein Models: Combining Accuracy & Speed	RUG-WN
Prof. dr. I.J. van der Klei	The rise of peroxisomes towards the understanding of de novo peroxisome formation	RUG-WN
Prof. dr. R. Kanaar	Mechanism of genomic engineering mammalian stem cells	EMC
Dr. ir. W.K. den Otter	Self-assembly of protein coats at membranes	UT-CTW
Prof. dr. A.S. Akhmanova	Mechanism of MICAL3 redox enzyme function in exocytotic vesicle trafficking	UU-BWBI
Dr. M.M.S.M. Wösten	Signals that drives the metabolic adaptations necessary for the pathogen <i>Campylobacter jejuni</i> to survive in vivo	UU-DI
Prof. dr. L.J. Braakman	Crossing the vivo-vitro folding bridge: understanding a novel folding catalyst in the secretory pathway	UU-BWSK
Dr. Y.H. Choi	Natural deep eutectic solvents: the missing link in understanding cellular metabolism in physiology	UL-IBL
Dr. C.H. Hokke	A molecular basis for functional glycan-mediated binding of native helminth glycoproteins by C-type lectin receptors	LUMC
Prof. dr. W.T.S. Huck	Dynamic non-covalent nucleoid-like assemblies in picoliter droplets	RU-IMM

2012 - 2013

TOP		
Prof. dr. J.J.C. Neefjes	Chemical Immunology to modulate cross-presentation for improved vaccines	NKI-AVL
Prof. dr. P. Gros	Turning on Complement	UU-BWSK

ECHO		
Dr. ir. R.P. van Rij	A novel class of piwi-associated RNAs in arbovirus infection	RUMC
Prof. dr. J. van der Oost	The Journey of the Argonautes	WUR-AV
Prof. dr. A.B. Houtsmuller	DNA-damage Sensing by the XPC-complex: a Molecular Switch in the DNA Damage Response	EMC
Dr. A.I.P.M. de Kroon	Acyltransferases controlling membrane fluidity	UU-BWSK
Prof. dr. J.A. Killian	Native nanodiscs: a new view on membrane proteins	UU-BWSK
Dr. L.M.J. Kroon-Batenburg	Get the maximum out of diffraction data diffuse scattering used to improve the description of macromolecular structure	UU-BWSK
Prof. dr. M. Ubbink	Understanding protein complex formation: The role of the encounter complex	UL-LIC
Dr. L.M. Veenhoff	Ageing of the Nuclear Pore Complex: relating structure and function	UMCG
Dr. J. Goedhart	Visualizing the chemistry of cellular decision making with engineered fluorescent biosensors	UvA-SILS
Dr. K. Blank	Mechanical manipulation of enzyme activity: a novel approach to investigate and engineer allosteric regulation?	RU-IMM
Prof. dr. M.L. Groot	Elucidating the role of protein dynamics in the efficiency of biological signal transduction	VU-EWNS
Dr. M.M. Maurice	Molecular mechanisms of Frizzled receptor-mediated signaling relay in the control of Wnt signaling	UMCU
Prof. dr. R. Leurs	Receptor signaling: it's all about protein-protein interactions	VU-EWSF
Prof. dr. ir. L. Brunsveld	Synthetic supramolecular signalling platforms out- and inside the cell	TUE-BT

Dr. ir. T.F.A. de Greef	Engineering synthetic cell-free biochemical circuits using a molecular networking strategy	TUE-ICMS
Dr. M. van der Stelt	Novel target engagement biomarkers for better drug candidates	UL-LIC

2013 - 2014

TOP		
Prof. dr. S.J. Marrink	Computational Microscopy of Cellular Membranes	RUG-GBB
Dr. A. Perrakis	Structural and chemical basis for the biosynthesis and propagation of base J	NKI-AVL

TOP-PUNT		
Prof. dr. W.T.S. Huck	Complex enzymatic networks for the bottom-up construction of a synthetic cell	RU
Prof. dr. R. Leurs	7 ways to 7TMR modulation (7-to-7)	VU
Prof. dr. H.S. Overkleeft	Exploring and exploiting activity-based protein profiling in chemical biology and medicinal chemistry	UL

ECHO		
Prof. dr. C.P. Verrijzer	Polycomb chromatin and beyond	EMC
Dr. C.S. Testerink	Clathrin-mediated endocytosis in plant salt stress responses: unravelling the biochemical basis	UvA-SILS
Dr. M.I. Huber	Disease-Active States of Alzheimer's Amyloid-beta Peptide by High-Field EPR	UL-WN
Prof. dr. E.J. Snijder	Protein-directed ribosomal frameshifting: a novel mechanism of non-canonical translation	LUMC
Dr. M. Boxem	Proteomic and functional studies of the ezrin-radixin-moesin protein ERM-1 in <i>C. elegans</i>	UU-BWBI
Prof. dr. S. de Vries	Electron transfer and hydride transfer reactions in respiratory enzymes with long redox chains	TUD-TNWBT
Prof. dr. L.M.C. Buydens	Efficient pre-processing selection	RU-IMM
Prof. dr. E.J. Boekema	A large Photosystem I supercomplex active in cyclic electron transport	RUG-WN
Dr. M. van der Stelt	Novel Chemical Tools for Target Validation in Neuroinflammation	UL-LIC
Dr. C. Ottmann	Small-molecule stabilization of 14-3-3 Protein-Protein Interactions in Metabolic Diseases	TUE-BT
Dr. J.J. Jansen	Deep Profiling with Flow Cytometry, novel chemometric methodology for Personalized Health (DeepFlow)	RU-NWI
Prof. dr. I.J.P. de Esch	Breaking the equilibrium dissociation constant into fragments: The use of binding kinetics and thermodynamics in the development of selective phosphodiesterase TbrPDEB1 ligands	VU-EW
Dr. A.K.H. Hirsch	Selective small-molecule inhibitors of glucansucrases as chemical probes and potential toothpaste additives	RUG-STRAT

2015

TOP		
Prof. dr. J. van der Oost	Novel nucleases for genome editing - beat their swords into ploughshares	WUR
Prof. dr. ir. E.J.G. Peterman	Catching PICH in the Act: the biophysical chemistry of ultrafine anaphase bridge resolution	VU

TOP-PUNT		
Prof. dr. M.H. Baldus	Caught in the act: a combined magnetic resonance - modelling approach to capture cellular machines at work	UU
Prof. dr. G.J. Boons	Combining chemical synthesis and analysis to reveal the biology regulated by protein glycosylation	UvA

ECHO		
Prof. dr. S.J.L. van den Heuvel	Optogenetic dissection of pulling force protein	UU
Prof. dr. C.L. Wyman	In vivo Biochemistry of how BRCA2 finds its way to fix ...	EMC
Prof. dr. ir. H.G. Stunnenberg	The Molecular Network of epigenetic readers in <i>P. falciparum</i>	RU
Dr. B.D. Rowland	How does cohesin release DNA?	NKI
Prof. dr. A.S. Akhmanova	Probing the mechanisms of microtubule dynamics using single molecule pharmacology	UU
Prof. dr. N.A.J.M. Sommerdijk	Unravelling the Molecular Mechanism of Collagen Mineralization	TUE
Dr. J.D.C. Codée	A combined theoretical and experimental approach to understand stereoelectronic substituent effects in glycosylations	UL
Dr. S.I. van Kasteren	Bioorthogonal antigens: a new approach to measure on-surface antigen presentation kinetics	UL

2016

TOP-PUNT		
Prof. dr. ir. A.J. Minnaard	Finding Mycobacterium tuberculosis' Achilles heel using chemical immunology	RUG

ECHO		
Dr. ir. J.H.G. Lebbink	Molecular switches for DNA mismatch repair	EMC
Prof. dr. M. Ubbink	Evolutionary robustness of β -lactamase: The roles of conserved amino acid residues	UL

Reference date: 1 September 2016. The 2016 round TOPIECHO based on continuous applications.

Grants International Thematic Programmes

2011

Forensic Science		
Prof. dr. M. Kayser	Estimating trace deposition time using circadian biomarkers	EMC
Dr. J.F.J. Laros	Metagenomic analysis of forensic biological traces	LUMC
Prof. dr. R.W.J. Meester	Familial Searching	VU-EWW
Prof. dr. M.W.F. Nielen	The Molecular Basis of Chemical Hair Evidence	WUR-AV
Prof. dr. M. de Rijke	Semantic Search in E-Discovery	UvA-IVI
Prof. dr. ir. P.J. Schoenmakers	COMFOR: The use of comprehensive two-dimensional chromatographic methods for chemical profiling of complex natural materials	UvA-HIMS
Prof. dr. M.J. Sjerps	Combining evidence in legal (forensic) casework	UVA-NWI
Dr. ir. R.N.J. Veldhuis	Forensic Face Recognition	UT-EWI
Dr. H.B. Verheij	Designing and Understanding Forensic Bayesian Networks with Arguments and Scenarios	RUG-WN

ChemThem: chemical biology		
Prof. dr. J.G. Roelfes	Chasing ROS: New Molecular Tools for the Study and Manipulation of Reactive Oxygen Species in Living Cells	RUG-STRAT
Prof. dr. ir. J.C.M. van Hest	Artificial Dendritic Cells	RU-IMM
Prof. dr. H.S. Overkleeft	Chemical biology of glucosylceramide metabolism: fundamental studies and clinical applications for Gaucher disease	UL-LIC
Prof. dr. D.J. Slotboom	Small molecule modulators of essential transport functions in pathogenic bacteria	RUG-WN
Prof. dr. G.C. Angenent	Chemistry in bloom: elucidating the transition to flowering in plants	WUR-PW

Gravitation Programme

2012

Cancer Genomics Centre Netherlands

Prof. dr. R. Bernards, prof. dr. J.L. Bos, prof. dr. H. Clevers, prof. dr. R.H. Medema, prof. dr. R. Kanaar, prof. dr. A. van Oudenaarden

2013

The Institute for Chemical Immunology (ICI)

Prof. dr. J.J.C. Neefjes (NKI), prof. dr. C.G. Figdor (UMC St Radboud), prof. dr. P. Gros (UU), prof. dr. A.J.R. Heck (UU), prof. dr. H.S. Overkleeft (UL), prof. dr. T.N.M. Schumacher (NKI)

Grants Public-Private Cooperation

TA		
Dr. F.J.M. Harren	Real time, in-vivo measurement of semi-volatiles in air/breath: two orders of magnitude more sensitive than the current Proton transfer reaction mass spectrometers	RU
Private partners: Ionicon Analytik GmbH, Unilever R&D Vlaardingen		
Prof. dr. R.P.H. Bischoff	Analysis of Biomolecules on Surfaces (BIOSURF)	RUG
Private partners: Dionex Benelux, Avantor Performance Materials, PepScope, Materiomics		
Dr. G.I. Vivó-Truyols	Chromametrics: expanding the possibilities of chemometrics in the chromatographic domain	UVA
Private partner: DSM Resolve		
Dr. J. Kool	Enhanced bioresolution and miniaturization of Surface Plasmon Resonance optical sensing	VU
Private partners: Heineken, Technex, Synthon, EuroProxima, Waterproef		
Prof. dr. L.M.C. Buydens	Analysis of Large data sets By Enhanced Robust Techniques	RU
Private partners: AkzoNobel Chemicals, DSM Resolve, Lifetec, Heineken Supply Chain, Global R&D		
Prof. dr. R.M.A. Heeren	Next generation ambient imaging mass spectrometry for (bio)polymers and smart materials	UM
Private partners: DSM R&D Solutions, Da Vinci Europe Laboratory Solutions, Pepscope		
Prof. dr. L.M.C. Buydens	Outfitting the Factory of the Future with ON-line analysis (OFF/ON)	RU
Private partners: AkzoNobel Chemicals, DSM Resolve, Lifetec, Heineken Supply Chain, Global R&D		
Prof. dr. E.M.J. Verpoorte	High-end Analytical Detection coupled to a Gut-on-a-Chip	RUG
Private partners: Micronit Microfluidics, FrieslandCampina, EuroProxima		
Prof. dr. G.P. van Wezel	Synthetic Biology and Genomics Platform for New-to-Nature Bioactive Peptides	UL
Private partners: BaseClear, Dupont, Naturalis Biodiversity Center, Enzyep		
Dr. A. Kros	Supramolecular peptide amphiphile nanoparticles as a novel allergy vaccine platform	UL
Private partners: Crossbeta Biosciences, HAL Allergy		
Prof. dr. J.P. Abrahams	A high speed revolution in 3D analysis of (supra-)molecular structures	UL
Private partners: Omics2Image, Amsterdam Scientific Instruments		
Prof. dr. P. Gros	Targeting membrane proteins	UU
Private partners: U-Protein Express, Genmab		
Dr. J. Mecinovic	Targeting Histone Lysine Methyltransferases for Cancer Therapy	RU
Private partners: Chiralix, MercaChem		
Prof. dr. G.W. Somsen	Higher Order Structure Analysis	VU
Private partners: DSM Resolve, Bruker Nederland, Postnova Analytics		
Dr. H. Zhang	Preclinical Intraoperative Image-Guided Surgery and Postoperative Radiotherapy of Tumours	UVA
Private partner: TECOBiosciences		
Prof. dr. R.D. Hall	CHEMOSENSE: data-driven approaches for food products with superior sensorial properties	WUR
Private partners: Unilever R&D DSM Biotechnology Center		

LIFT		
Prof. dr. R. Leurs	Third generation antihistamines: Computer aided drug design of dual-action H1R/H4R antagonists	UvA
Private partner: Griffin Discoveries		
Dr. F. van Leeuwen	Development of antibodies targeted at site-specific protein ubiquitylation	NKI
Private partner: UbiQ Bio		
Prof. dr. R.M. Schiffelers	Surface coating and decoration of magnetic microbeads for capturing glioblastoma nanovesicles in blood to improve brain cancer diagnosis and treatment monitoring	UMCU
Private partner: JSR Micro		
Dr. J.F.W. Nijsen	Development and production of ultrahigh loaded holmium-166 biocompatible microspheres for cancer treatment	UMCU
Private partner: Quirem Medical		
Dr. ing. D.J. Vugts	Development of efficient [18F]trifluoromethylation methods that enable the synthesis of new PET tracers and their application in imaging cancer and neurological disorders	VUMC
Private partner: Cyclotron VU		
Dr. A.K.H. Hirsch	Structure-based development of potent and selective inhibitors of the enzyme DXS as innovative herbicides and antibiotics	RUG
Private partner: Bayer CropScience AG		
Prof. dr. P.H. Elsinga	PET studies for AG-0029	UMC Groningen
Private partner: Syncom		
Dr. T.J. Boltje	Improved drug uptake via enzyme targeting	RU
Private partner: PharmaCytics		
Prof. dr. G.J.P.H. Boons	Chemoenzymatic synthesis and functional studies with human milk oligosaccharides	UU
Private partner: FrieslandCampina Nederland		
Prof. dr. L.J. Braakman	Understanding the mechanism of novel disease-modifying drugs for treatment of cystic fibrosis	UU
Private partner: Galapagos en Dutch Cystics Fibrosis Foundation (NCF5)		
KIEM		
Dr. F. van Leeuwen	Commercial development of a yeast H2B K123 Ubiquitin antibody for genome-wide evaluation of specific epigenetic modifications	NKI
Private partner: UbiQ Bio		
Prof. dr. J. Borst	Defining the use of recombinant mouse models to select and advance innovative antibodies for immunotherapy of cancer	NKI
Private partner: BioNovion		
Prof. dr. ir. J.C.M. van Hest	Versatile poly(oxazoline) building blocks for tissue tape development	RU
Private partner: Bender Analytical Holding		
Prof. dr. R.M. Schiffelers	Development of freeze-dried extracellular vesicle mimics	UMCU
Private partner: 20Med Therapeutics		
Dr. J.D.C. Codée	Designer cyclodextrins to scavenge sphingolipids involved in lysosomal storage disease	UL
Private partner: Okklo Life Sciences		
Dr. T.M. Luider	Clinically relevant DNA-PK activity measured by mass spectrometry	EMC
Private partner: Abundnz		
Dr. M.C. Feiters	Pervasive cyclodextrins for therapeutic lipid transfer	RU
Private partner: Okklo Life Sciences		
Prof. dr. M. Ubbink	Structuurbevestiging van eiwit-ligand complexen met paraNMR, toegepast in medicijnontwikkeling	UL
Private partner: ZoBio		

Prof. dr. G.J.M. Pruijn	Anti-citrullinated/carbamylated protein antibodies captured by immunoglobulin-based agglutination (ACACIA)	RU
Private partner: NovioSmart		
Dr. R.B.G. Ravelli	Efficiëntere productie van cryogene samples voor elektronen microscopie	UM
Private partner: Maastricht Instruments		
Dr. A.D. Kraneveld	Behandeling van de ziekte van Parkinson met remmers van het tryptofaan metabolisme	UU
Private partner: Netherlands Translational Research Center		
Dr. T.M. Luider	Visualisation and quantification of the tissue distribution of a drug that is released from a nanomedicine	EMC
Private partner: Abundnz		
Dr. ir. J.P. Hoogenboom	Superresolutie microscopie door elektronenbundel geïnduceerde dissociatie van fluorescente moleculen	TUD
Private partner: Delmic		
Prof. dr. ir. A.J. Minnaard	Gemodificeerde aminoglycosiden, een nieuwe klasse antibiotica	RUG
Private partner: Syncom		
Prof. dr. O.P. Kuipers	Nieuwe Chemische Structuur Elementen in Therapeutische Peptiden door het Benutten van Bacteriële Enzymatisch Modificatie Systemen	RUG
Private partner: Lanthio Pharma		
Prof. dr. R.M. Schiffelers	20Med nanogelen voor de verbetering van kankertherapie	UMCU
Private partner: 20Med Therapeutics		
Dr. M. Merckx	Synthesis of dimethyllysine analogues and their application in epigenetics	TUE
Private partner: EuroProxima		
Dr. T.J. Boltje	Enzyme-mediated drug delivery	RU
Private partner: PharmaCytics		
Dr. ir. R.P. van Rij	Development of high-throughput assays for rapid optimization of dengue virus protease inhibitors	RU
Private partner: Protinhi Therapeutics		
Dr. T.M. Luider	Het maken van integrale stabiel isotoop gelabelde standaarden voor gebruik in kwantitatieve massa spectrometrie (MS)	EMC
Private partner: Protein Labelling Innovation		
Prof. dr. G.J. Poelarends	Efficiënte synthese van selectieve remmers van glutamaat transporteiwitten	RUG
Private partner: INTEGREGX Research		
Dr. C. Lokman	Ontwikkeling van nieuwe, milieuvriendelijke coatings voor de bescherming van zaden tegen schimmelinfecties	Hogeschool van Arnhem en Nijmegen
Private partner: Eucaryo Beheer		
Prof. dr. ir. J. Huskens	Biosensing 1-2-3: Monolayers for bifunctional performance of TriPLeX ring resonator devices	UT
Private partner: BioVolt		
Prof. dr. E.J. Smid	The RhineHorn Initiative	WUR
Private partner: Beekadvies		