

Selected projects 2013

In the Fall of 2013 ZonMw and NWO-ALW opened a call for project teams liaised with three Dutch Topsectors to obtain access to 'Technology Hotels' associated with DTL. After peer review, the following 35 projects have been selected.

– 1 –

Deconstructing the plant immune system by using a Fusarium effector protein as a probe

- Project applicant: University of Amsterdam, Dr. M. Rep
- Hotel: [MAD: Dutch Genomics Service & Support Provider – UvA](#)
- Hotel manager: Dr. T. Breit
- Field: Genomics

– 2 –

Microbiome and Skin Diseases

- Project applicant: Radboud umc, Dr. P.L.J.M. Zeeuwen
- Hotel: [CMBI – Radboud UMC](#)
- Hotel manager: Dr. Sacha van Hijum
- Field: Bioinformatics & Computational biology

– 3 –

Natural variation in drought response and adaptation in *Arabidopsis thaliana*

- Project applicant: Wageningen University & Research Centre, Dr. ing. J.J.B. Keurentjes
- Hotel: [Metabolomics Facility, PRI](#)
- Hotel manager: Dr. R. Mumm
- Field: Metabolomics

– 4 –

Metabolic effects of dietary proteins

- Project applicant: Wageningen University & Research Centre, Prof. dr. M.A. Smits
- Hotel: [Metabolomics facility – Netherlands Metabolomics Centre / Leiden University](#)
- Hotel manager: Prof.dr. T. Hankemeier, Dr. A.C. Harms
- Field: Genomics

– 5 –

A role for antisense RNA in ambient temperature-mediated flowering time control?

- Project applicant: Wageningen University & Research Centre, Mr. Dr. Ir. R.G.H. Immink
- Hotel: [Wageningen Agroinformatics Center WUR – NGS for Plant Genomes](#)
- Hotel manager: Dr. G.F. Sanchez Perez
- Field: Genomics

– 6 –

Epigenetic reprogramming of mycobacterium-infected hostcells

- Project applicant: Leiden University, Dr. A.H. Meijer
- Hotel: [Leiden Genome Technology Center – LUMC](#)
- Hotel manager: Sophie Greve
- Field: Genomics

– 7 –

Comparative proteomics and bioinformatics analysis for the identification of microRNA targets to enhance the development of miRNA-based cancer therapeutics

- Project applicant: Radboud umc, Dr. G.W. Verhaegh
- Hotels: **Laboratory of Genetic, Endocrine and Metabolic Disease – UMC St Radboud**; **Department of Microbiology and Systems biology – TNO**
- Hotel manager: Prof. Dr. A.J. van Gool
- Field: Bioinformatics and Computational Biology, Proteomics & Structural Biology

– 8 –

Integrated microscopy using electron-beam excited luminescence: Biomedical implementation

- Project applicant: Delft University of Technology, Dr. ir. J.P. Hoogenboom
- Hotel: **Cell Biology – UMCG**
- Hotel manager: Dr. B.N.G. Giepmans
- Field: Bioimaging & Phenotyping

– 9 –

Transcriptomics analysis of strigolactone downstream signalling

- Project applicant: Wageningen University & Research Centre, Prof. dr. ir. H.J. Bouwmeester
- Hotel: **Wageningen Agrogenomics Center – WUR**
- Hotel manager: Dr. G.F. Sanchez Perez
- Field: Genomics

– 10 –

High content analysis for the characterization of novel disruptors of GHR-JAK2 signaling

- Project applicant: Utrecht University Medical Center, Prof. dr. J. Klumperman
- Hotel: **Cell Screening Center – UMCU**
- Hotel manager: Dr. D.A. Egan
- Field: Bioimaging & Phenotyping

– 11 –

Allergen identification and sequencing within the Anacardiaceae family

- Project applicant: Wageningen University & Research Center, Prof. dr. H.J. Wichers
- Hotel: **Proteomics facility – PRI – WUR**
- Hotel manager: Dr. A.H.P. America
- Field: Proteomics & Structural biology

– 12 –

Metabolome of chemically primed tomatoes

- Project applicant: Wageningen University & Research Center, Dr. B. Vosman
- Hotel: **Metabolomics facility – PRI**
- Hotel manager: Dr. C.H. de Vos
- Field: Metabolomics

– 13 –

Metabolic differences induced by slowly and rapidly digestible starch

- Project applicant: Groningen University Medical Center, Dr. M.G. Priebe
- Hotels: **Biomarker Development Center (BDC)**; **Department of Microbiology and Systems biology – TNO**
- Hotel managers: Prof. dr. R.P.H. Bischoff, dr. A.J.van Gool
- Fields: Bioinformatics and Computational biology, Metabolomics

– 14 –

Metabolic changes during dormancy release in tulip

- Project applicant: Wageningen University & Research Center, Mr. Dr. Ir. R.G.H. Immink
- Hotel: [Metabolomics facility – PRI](#)
- Hotel manager: Dr. R. Mumm
- Field: Metabolomics

– 15 –

Role of chromosomal interactions on flowering time

- Project applicant: Wageningen University & Research Center, Prof. dr. ir. G.C. Angenent
- Hotel: [Wageningen Agrogenomics Center – WUR](#)
- Hotel manager: Dr. G.F. Sanchez Perez
- Field: Genomics

– 16 –

Targeted identification and quantification of alternative splicing dependent protein isoforms functional in flowering time control

- Project applicant: Wageningen University & Research Center, Mr. Dr. Ir. R.G.H. Immink
- Hotel: [Proteomics facility – PRI – WUR](#)
- Hotel manager: Dr. A.H.P. America
- Field: Proteomics & Structural biology

– 17 –

Gene expression related to aphid resistance

- Project applicant: Wageningen University & Research Center, Prof. dr. M. Dicke
- Hotel: [Wageningen Agrogenomics Center – WUR](#)
- Hotel manager: Dr. G.F. Sanchez Perez
- Field: Genomics

– 18 –

Following Enzymatic Hydrolysis of Natural Feedstock

- Project applicant: Wageningen University & Research Center, Prof. dr. H. Gruppen
- Hotel: [CARIM School for Cardiovascular Disease – Maastricht University](#)
- Hotel manager: Dr. M.A.M.J. van Zandvoort
- Field: Bioimaging & Phenotyping

– 19 –

Genome Sequencing of Evolved Strains of Synechocystis PCC6803

- Project applicant: University of Amsterdam, Dr. F. Branco dos Santos
- Hotel: [MAD: Dutch Genomics Service & Support Provider – UvA](#)
- Hotel manager: Dr. T.M. Breit
- Field: Genomics

– 20 –

Effect of organellar genomes on the transcriptome of Arabidopsis thaliana

- Project applicant: Wageningen University & Research Center, Dr. ing. J.J.B. Keurentjes
- Hotel: [Wageningen Agrogenomics Center – WUR](#)
- Hotel manager: Dr. G.F. Sanchez Perez
- Field: Genomics

– 21 –

The gut microbiota and childhood weight development: the role of the host genome

- Project applicant: Maastricht UMC, Prof. dr. ir. I.C.W. Arts
- Hotel: [Rotterdam Genomics Core – ErasmusMC](#)
- Hotel manager: Prof dr A.G. Uitterlinden
- Field: Genomics

– 22 –

Development of tools for an RNAseq based advanced eQTL approach to study seedling quality in Arabidopsis

- Project applicant: Wageningen University & Research Center, Dr. ir. W. Ligterink
- Hotel: [Wageningen Agrogenomics Center – WUR](#)
- Hotel manager: Dr. G.F. Sanchez Perez
- Field: Bioinformatics and Computational biology

– 23 –

Unveiling the Banana-Fusarium oxysporum interaction

- Project applicant: Wageningen University & Research Center, Dr. ir. G.H.J. Kema
- Hotel: [Wageningen Agrogenomics Center – WUR](#)
- Hotel manager: Dr. G.F. Sanchez Perez
- Field: Genomics

– 24 –

Metabolomic biomarkers of oxidative damage and cardiovascular disease in patients with diabetes or prediabetes

- Project applicant: Maastricht UMC, Dr. M.M.J. van Greevenbroek
- Hotel: [Metabolomics facility – Netherlands Metabolomics Centre / Leiden University](#)
- Hotel manager: Prof. dr. T. Hankemeier
- Field: Metabolomics

– 25 –

Exploitation of sequence diversity in potato NB-LRR resistance gene clusters to determine the genomic location of novel nematode resistance loci in potato

- Project applicant: Wageningen University & Research Center, Dr. ir. A. Goverse
- Hotel: [Wageningen Agrogenomics Center – WUR](#)
- Hotel manager: Dr. G.F. Sanchez Perez
- Field: Genomics

– 26 –

Development of standard microbial SNP typing pipeline

- Project applicant: Leiden UMC, Prof. dr. E.J. Kuijper
- Hotel: [Sequencing Analysis Support Core \(SASC\)](#)
- Hotel manager: Dr. H. Mei
- Field: Genomics

– 27 –

Transcriptomics analysis and bioinformatics approaches for the identification of in vitro molecular early signatures for immunogenicity

- Project applicant: TNO, Dr. B.O. Fabriek

- Hotels: **MAD: Dutch Genomics Service & Support Provider – UvA; Department of Microbiology and Systems biology – TNO**
- Hotel managers: Dr. T.M. Breit ; Prof. dr. A.J. van Gool
- Fields: Bioinformatics and Computational Biology; Genomics

– 28 –

A metabolomic approach to improve personalized medicine in diabetes

- Project applicant: Groningen University Medical Centre, HJ Lambers Heerspink
- Hotels: **Metabolomics facility – Netherlands Metabolomics Centre / Leiden University**
- Hotel manager: Prof. dr. T. Hankemeier
- Field: Metabolomics

– 29 –

Imaging of nanoparticle uptake by model soil organisms to facilitate environmental risk and safety assessment of engineered nanomaterials

- Project applicant: Wageningen University & Research Center, Dr. ir. N.W. van den Brink
- Hotel: **Wageningen Imaging and Spectroscopy Hub (WISH) – WUR**
- Hotel manager: Prof. dr. ir. M.E. Janson
- Field: Bioimaging & Phenotyping

– 30 –

Trans-acting (epi)genetic regulation of gene expression associated with aortic aneurysm in patients with Marfan syndrome

- Project applicant: Amsterdam University Academic Medical Centre, Dr. P.D. Moerland
- Hotel: **Bioinformatics Laboratory – AMC**
- Hotel manager: Prof. dr. A.H.C. van Kampen
- Field: Bioinformatics and Computational Biology

– 31 –

Skin Microbiome Dynamics in Canine Atopic Dermatitis

- Project applicant: Utrecht University, Prof. dr. V.P.M.G. Rutten
- Hotel: **CMBI – Radboud UMC**
- Hotel manager: Dr. Sacha van Hijum
- Field: Bioinformatics and Computational Biology

– 32 –

Joined forces in toxicogenomics: specialised bioinformatics to extend and automate diXa workflows for (hepato)toxicity prediction

- Project applicant: Maastricht UMC, Dr. D.G.A.J. Hebels
- Hotel: **Dept of Bioinformatics – BiGCaT – Maastricht University**
- Hotel manager: Dr. L.M.T. Eijssen
- Field: Bioinformatics and Computational Biology

– 33 –

High throughput analysis of ACPA-IgG Fab-glycosylation: clinical application and functional perspectives

- Project applicant: Leiden UMC, Dr. Y.J.P.C. Rombouts
- Hotel: **Center for Proteomics and Metabolomics – LUMC**
- Hotel manager: Dr. L.A. McDonnell
- Field: Proteomics & Structural Biology

– 34 –

Dual-isotope SPECT evaluation of different formats of nanobodies for tumor imaging

- Project applicant: Utrecht University, Dr. S. Oliveira
- Hotel: **Center for Imaging Research & Education (CIRE) – TUE & Philips**
- Hotel manager: Dr. R.G. Aarnink
- Field: Bioimaging & Phenotyping

– 35 –

Lipidomic biomarkers of Cystic Fibrosis in lung lavage fluids of juvenile Cystic Fibrosis patients

- Project applicant: Erasmus Medical Center, Dr. R.J. Vreeken
- Hotel: **Metabolomics facility – Netherlands Metabolomics Centre/Leiden University**
- Hotel manager: Dr. B.J. Scholte
- Field: Metabolomics