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# FOURTH DUTCH ENDO-NEURO-PSYCHO MEETING



Neurofederatie



NMNI



MAGW

ALW

Golden Tulip Parkhotel 'Doorwerth', Doorwerth, Netherlands  
31 M a y - 3 J u n e 2 0 0 5

**DEAR PARTICIPANT**

The organizers proudly welcome you at the 4th Dutch Endo-Neuro-Psycho Meeting, the unique annual meeting for the Dutch endocrinologist and neuroscientist in the broadest sense. This Endo-Neuro-Psycho Meeting 2005 (ENP2005) is the 9th meeting of its kind, which started in 1997 as the 1st Dutch Endo-Neuro Meeting, but since then has grown to *the* forum of national scientific exchange. A bit of its history and its success story can be found on <http://www.enpmeeting.nl/enp/history>.

One of the aims of the ENPmeeting is to present the most recent developments in clinical and pre-clinical research in various fields of endocrinology and the neurosciences. The present program again offers many exciting sessions in the fields of basal and clinical endocrinology, neuroendocrinology, neurosciences and behavioral neurosciences. To this end, many scientists, participating as moderators in the meeting, have organized topic-oriented sessions in which both internationally well-known speakers were invited to present their view on the future prospects as well as junior scientists who will contribute with their latest results. This approach is chosen as to create an ideal atmosphere that promotes interaction between junior investigators and established senior scientists, the important second aim of the meeting.

In addition poster sessions are organized that are open for both young and established scientists. We would like to encourage everyone to actively attend these sessions.

The ENP2005 is again held in the Golden Tulip Parkhotel Doorwerth. The pleasant atmosphere of this conference site has proven to be very stimulating for scientific and social exchange in all previous meetings, and no doubt it will do so in 2005.

Finally, the organizers would like to stress and acknowledge the important contribution of the session moderators: they organized the sessions and together they are responsible for the exciting program of this years meeting. In addition, the 4nd Dutch Endo-Neuro-Psycho Meeting 2005 would not exist without the generous financial support from our sponsors.

On behalf of the organizing committee, we wish you a fruitful meeting in Doorwerth,

Hanno Pijl (*chair Organizing committee*)  
Sytze van Dam (*chair Program committee Endocrinology*)  
Bart Ellenbroek (*chair Program committee Neuroscience*)  
Miranda van Turenout (*chair Program committee Cognitive and behavioral neuroscience*)

**MEETING WEBSITE**

The organization of the Endo-Neuro-Psycho Meeting has a permanent website on which past, present and future information can be found. It also provides further information on how to apply as moderator for a session at a future meeting. The site has the address <http://www.enpmeeting.nl/enp>. The direct link to the pages of the present 2005 meeting is <http://www.enpmeeting.nl>.

**Contact addresses***About this meeting*

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Josephine Nefkens Institute  
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e-mail [ENPmeeting@neurofederatie.nl](mailto:ENPmeeting@neurofederatie.nl)

*About financial matters*

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University Medical Center Utrecht  
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3508 GA Utrecht  
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*General information*

Dr. Gerard J. Boer  
(board Dutch Neurofederation)  
Dept. Neuroregeneration  
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Meibergdreef 33  
1105 AZ Amsterdam ZO  
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**FUTURE MEETINGS AND CALL FOR PROPOSALS**

The Dutch Endo-Neuro-Psycho Meeting will continue in 2006, and again in the first week of June. Preliminary dates for the next meeting are 6-9 June 2006.

Suggestions for sessions of the 2006 meeting can already be submitted. Announce your suggestions as moderator via the special form available in this booklet (see

page xxx), or use the electronic version on <http://www.ENPmeeting.nl/enp/ENP2006>.

All Dutch participants of Dutch Endo-Neuro-Psycho Meetings will receive an e-mail in September 2005 reminding them about the possibility to organize a session at the 5th Dutch Endo-Neuro-Psycho Meeting 2006 / 10th Dutch Endo-Neuro Meeting 2006.

Detailed instructions for moderators will be published on the above mentioned web pages of the Endo-Neuro-Psycho Meeting. The e-mail address for correspondence is [ENPmeeting@neurofederatie.nl](mailto:ENPmeeting@neurofederatie.nl).

**ORGANIZING COMMITTEE**

Gerard Boer (NIH, Amsterdam) *vice-president*  
 Gerard Borst (Erasmus MC, Rotterdam)  
 Sytze van Dam (OLVG, Amsterdam)  
 Michaela Diamant (VUmc, Amsterdam)  
 Willem van der Does (LU, Leiden)  
 Bart Ellenbroek (KUN, Nijmegen)  
 Richard Feelders (Erasmus MC, Rotterdam)  
 Eric Fliers (AMC, UvA, Amsterdam)  
 Mechiel Korte (WUR, Wageningen)  
 Freek van Muiswinkel (UMCU, Utrecht) *treasurer*  
 Albert Postma (UU, Utrecht)  
 Hanno Pijl (LUMC, Leiden) *president*  
 Wim Scheenen (KUN, Nijmegen)  
 Wim Riedel (UM, Maastricht)  
 Anton Scheurink (RUG, Groningen)  
 Miranda van Turenout (KUN, Nijmegen)  
 Mark Verheijen (VU, Amsterdam) *committee secretariat*  
 Robbert Verkes (UMCN, Nijmegen)  
 Ineke van der Zee (KUN, Nijmegen)

*Program committee Endocrinology*

Sytze van Dam (*chair*)  
 Michaela Diamant  
 Richard Feelders  
 Eric Fliers  
 Mechiel Korte  
 Hanno Pijl  
 Anton Scheurink

*Program committee Neuroscience*

Gerard Boer  
 Gerard Borst  
 Bart Ellenbroek (*chair*)  
 Freek van Muiswinkel  
 Wim Scheenen  
 Mark Verheijen  
 Ineke van der Zee

*Program committee Cognitive & behavioral neuroscience*

Willem van der Does  
 Albert Postma  
 Wim Riedel  
 Miranda van Turenout (*chair*)  
 Robbert Verkes

*Secretariat registration*

Sonja van Eif

*Secretariat abstracts*

Tini Eikelboom

**PARTICIPATING ORGANIZATIONS**

Netherlands Federation of Neuroscience Organizations  
 (Neurofederation)  
[www.neurofederatie.nl](http://www.neurofederatie.nl)  
 Netherlands Society for Endocrinology (NVE)  
[www.nve.nl](http://www.nve.nl)  
 Netherlands Society for Psychonomics (NVP)  
[nvp.nici.kun.nl](http://nvp.nici.kun.nl)  
 Dutch Society for Neuropsychology (NVN)  
[www.nvneuropsy.nl](http://www.nvneuropsy.nl)  
 Dutch-Belgian Society for Experimental and Clinical  
 Neuroscience (EKN)  
[www.ekn.org](http://www.ekn.org)

**SPONSORS**

*Organizations*

Dutch Brain Foundation (HsN)  
[www.hsn.nl](http://www.hsn.nl)  
 Dutch League against Epilepsy  
 Glucocorticoid hormone Programming in Early life and  
 its impact on Adult Health (EUPEAH)  
[www.eupeah.org](http://www.eupeah.org)  
 Graduate School Neurosciences Amsterdam (ONWA)  
[www.onwa.med.vu.nl](http://www.onwa.med.vu.nl)  
 Graduate School of Behavioral and Cognitive  
 Neurosciences (BCN)  
[www.bcn.rug.nl/bcn](http://www.bcn.rug.nl/bcn)  
 International Foundation Alzheimer Research (ISAO)  
[www.alzheimer.nl](http://www.alzheimer.nl)  
 Netherlands Institute for Brain Research  
[www.nih.knaw.nl](http://www.nih.knaw.nl)  
 Netherlands Organization for Health Research and  
 Development (ZonMw)  
[www.zonmw.nl](http://www.zonmw.nl)  
 NWO Foundation 'Aard- en Levenswetenschappen'  
 (NWO-ALW)  
[www.nwo.nl/alw](http://www.nwo.nl/alw)  
 NWO Foundation 'Maatschappij en  
 Gedragwetenschappen' (NWO-MaGW)  
[www.nwo.nl/magw](http://www.nwo.nl/magw)

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[www.novartisoncology.nl](http://www.novartisoncology.nl)  
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 Pfizer BV (Capelle a/d IJssel)  
[www.pfizer.nl](http://www.pfizer.nl)  
 Solvay Pharma B.V. (Weesp)  
[www.solvay.com](http://www.solvay.com)

**CONFERENCE SITE**

Golden Tulip Parkhotel 'Doorwerth', Kabeljauwallee 35, 6865 BL Doorwerth, tel. 0317 319010.

The following lecture rooms are available: Branding (plenary, parallel and poster sessions), Doorwerth, Patio and Gelderland (parallel sessions), and Renkum and Heelsum (satellite sessions). Sub 1 is the luggage room. Sub 2 is a room with a PC for internet access, and the room to connect your own laptop to the internet. Sub 3 is available as small meeting room for those who wish to organize a small exchange meeting during the ENP2005 (contact the registration desk).

**REGISTRATION DESK**

The registration desk is daily open till 13.00 h, and in the afternoon between 18.00-18.30 h (except Friday 3 June). The desk provides you with lunch en dinner tickets and a program booklet if you have paid the necessary registration fee before the deadline of May 15.

The registration desk is also open for on site registration and additional diner tickets.

The hotel only serves drinks at the bar via bar tickets.

These tickets are available at the hotel desk.

**INSTRUCTIONS FOR ACCOMMODATION**

If accommodation is ordered, and your room will be in Parkhotel Doorwerth, you can check-in at the hotel desk only after 14.00 h. Luggage should be stored in Sub 1, a room available for luggage storage at all times. Hotel accommodation includes breakfast that is served in the restaurant from 07.00 h onwards.

Check-out should be done before 13.00 h at the hotel desk. Any additional hotel service is at your own expense.

**INSTRUCTIONS FOR INVITED SPEAKERS FROM ABROAD**

Upon registration at the meeting desk, you will receive a travel reimbursement form in case you have been elected for payment of travel costs. Please fill out this form as requested and return it at the registration desk during the meeting or mail it to the treasurer within a month. If properly filled out and returned soon, you can count upon a swift bank transfer from the organization (within a month after submission).

Note that the travel costs eligible for reimbursement are based on air fare APEX tourist class, 2nd class train fares and local taxi costs, and that the organizers need a copy of all your tickets.

The address of the meeting treasurer: Dr. Freek L. van Muiswinkel, Dept. Neurology G03.228, University Medical Center Utrecht, P.O. Box 85500, 3508 GA Utrecht, e-mail f.l.vanmuiswinkel@neuro.azu.nl.

**INSTRUCTIONS FOR ORAL PRESENTATIONS**

Oral presentation time includes 10 min (long) or 5 min discussion time (short presentations).

Beamer equipment is available in all lecture rooms. The moderator(s) of your session is (are) in charge of the computer part of the projection. A room assistant is available during each session for additional help.

Please contact your session moderator, who now acts as a chairperson, well in advance of the start of the session to arrange swift change of files between the presentations. The organizers have suggested the moderators to collect all presentation files on a single laptop.

**INSTRUCTIONS FOR POSTER PRESENTATIONS**

Poster sessions are in the rear of lecture room Branding (Endo and Neuro 2 sessions) and at the corridor near the bar (Neuro 2 and Psycho sessions). Posters can be displayed on the day of the session and have to be removed before 08.00 h the next day. Poster boards are sized 100 x 120 cm. Posters can be mounted by drawing pins, which will be available at the meeting.

The Endocrinology session on Monday 2 June includes a lunch, all other sessions are combined with a coffee/tea break.

**POSTER AWARDS**

For the Endocrinology, Neuroscience 1 and 2 and Cognitive and behavioral neuroscience poster sessions, a poster will be awarded for presentation and quality. Poster selection committees appointed by the three scientific program committees will announce the winners in Poster award ceremonies that will be held respectively during the dinner of 31 May (Endocrinology), the dinner of 1 June (Neuroscience 1), following the Neurofederation Lecture on 2 June ~16.50 h (Neuroscience 2) and prior the NVN session on 'What it means to be human' on 3 June 16.00 h (Cognitive and behavioral neuroscience).

**T I M E / R O O M T A B L E**

**TUESDAY 31 MAY**

09.00	Registration (till 13.00 h)	Entrance
09.55	Opening	Branding
10.00	NVE teaching session	Branding
11.45	Session 2	Doorwerth
	Session 3	Patio
	Session 4	Branding
	Session 5	Gelderland
13.15	Posters Endocrinology (incl. lunch)	Branding
15.00	Session 6	Branding
16.00	Break	
16.30	Session 7	Doorwerth
	Session 8	Branding
	Session 9	Gelderland
	Session 10	Patio
18.00	Registration (till 18.45 h)	Entrance
18.00	NVE Annual Member Meeting	Doorwerth
19.00	Dinner	Restaurant
	Poster Award Endocrinology	
21.00	Organon Award Lecture	Branding

**WEDNESDAY 1 JUNE**

08.00	Registration (till 13.00 h)	Entrance
08.30	Session 12	Branding
09.00	*Satellite HUPO BPP 1	Heelsum
09.30	Session 13	Doorwerth
	Session 14	Branding
	Session 15	Patio
	Session 16	Gelderland
10.00	*Satellite Neuroinformatics 1	Renkum
10.30	*Satellite HUPO BPP 2	Heelsum
11.00	Break	
11.30	Marius Tausk Lecture	Branding
12.15	Lunch	Paviljon
13.30	Session 18	Doorwerth
	Session 19	Branding
	Session 20	Patio
	Session 21	Gelderland
	*Satellite HUP BPP 3	Heelsum
	*Satellite Neuroinformatics 2	Renkum
15.00	Posters Neuroscience 1 (incl. break)	Branding
15.20	*Satellite HUP BPP 4	Heelsum
17.00	Session 22	Branding
	Session 23	Gelderland
	Session 24	Patio
	Session 25	Doorwerth
18.00	Registration (till 18.45 h)	Entrance
19.00	Dinner	Restaurant
	Poster Award Neuroscience 1	
21.00	'Hersenstichting' Lecture	Branding

**THURSDAY 2 JUNE**

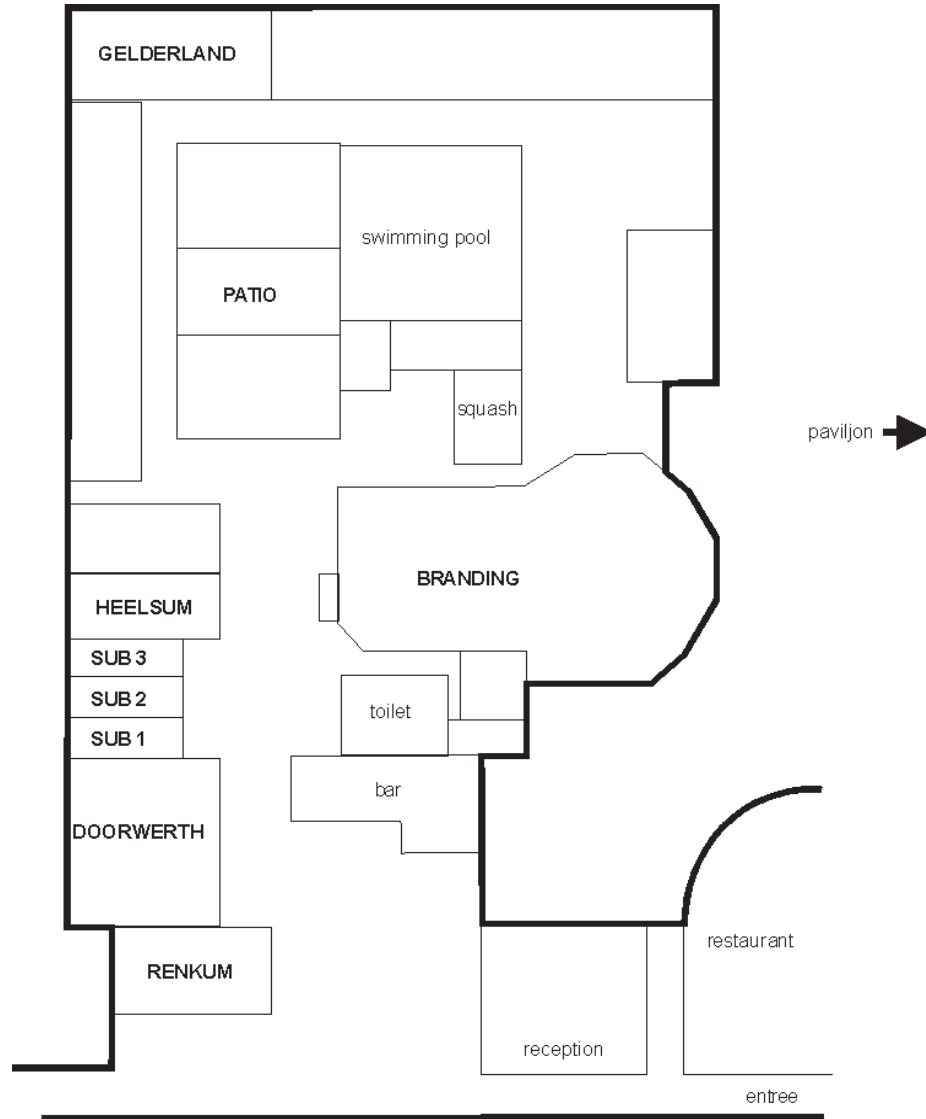
08.00	Registration (till 13.00 h)	Entrance
08.30	Session 27	Doorwerth
	Session 28	Patio
	Session 29	Gelderland
	Session 30	Branding
10.00	Posters Neuroscience 2 (incl. break)	Branding
12.00	EKN Keynote Lecture	Branding
12.45	Lunch	Paviljon
14.00	Session 32	Branding
	Session 33	Doorwerth
	Session 34	Patio
	Session 35	Gelderland
	*Satellite Neuropsychology 1	Heelsum
15.30	Break	
16.00	Neurofederation Lecture	Branding
	Poster Award Neuroscience 2	
	*Satellite Neuropsychology 2	Heelsum
17.00	Session 37	Doorwerth
	Session 38	Branding
	Session 39	Patio
	Session 40	Gelderland
18.00	Registration (till 18.45)	Entrance
19.00	Dinner	Restaurant
21.00	NVP Keynote Lecture	Branding

**FRIDAY 3 JUNE**

08.00	Registration (till 13.00 h)	Entrance
08.30	Session 42	Doorwerth
	Session 43	Branding
	Session 44	Gelderland
	Session 45	Patio
10.00	Break	
10.30	Session 46	Patio
	Session 47	Doorwerth
	Session 48	Branding
	Session 49	Gelderland
12.00	Lunch	Paviljon
13.00	Posters Cognition & Behavior	Branding
14.30	Session 50	Patio
	Session 51	Branding
	Session 52	Gelderland
	Session 53	Doorwerth
16.00	Break	
16.30	Poster Award Cogn. & Behavior NVN session	Branding
18.00	Closure	Branding

\* Note that satellite sessions have a separate and independant time schedule

P L A N L E C T U R E R E R O O M S



*LOCATION OF LECTURE ROOMS IN GOLDEN TULIP PARKHOTEL 'DOORWERTH'*

09.00 Registration (till 13.00)  
Mounting posters Endocrinology session

09.55 **OPENING** (*Branding*)  
**Hanno Pijl** (Leiden)

10.00 **Session 1** (*Branding*)  
**TEACHING SESSION NVE: THE METABOLIC SYNDROME**

*Chairperson: Hans Romijn (Leiden)*

**Achim Peters** (Lübeck, Germany)

The selfish brain

**Geert-Jan Biessels** (Utrecht)

Insulin resistance, type 2 diabetes and cognitive function

**Hanno Pijl** (Leiden)

Neuroendocrine features of obesity in humans

parallel sessions 2-5

*Session 2 (Doorwerth)*

**STRUCTURE-FUNCTION RELATIONS OF GLYCOPROTEIN HORMONE RECEPTORS**

*Moderators: Jan Bogerd (Utrecht) and*

*Axel Themmen (Rotterdam)*

11.45 **Sietse Mosselman** (Oss)

Gonadotropins and their receptors: an overview

12.00 **David Puett** (Athens, GA, USA)

LH receptor structure and mode(s) of activation

12.30 **Djura Piersma** (Rotterdam)

Effects of a functional LH receptor variant on breast cancer survival

12.45 **Julia Oosterom** (Oss)

Identification of low molecular weight ligands for gonadotropin hormone receptors

13.00 **Jan Bogerd** (Utrecht)

Ligand-selective determinants and common contact sites in LHR and FSHR

*Session 3 (Patio)*

**OSTEOPOROSIS**

*Moderators: Paul Lips and Jenneke Klein*

*Nulend (Amsterdam)*

11.45 **Lance Lanyon** (London, UK)

Mechanical stimulation of bone: interactions with hormones

12.15 **Astrid Bakker** (Leuven, Belgium)

Mechanotransduction by bone cells

12.30 **Christianne Reijnders** (Amsterdam)

Mechanical stimulation of rat bone: micro-array

12.45 **Aviral Vatsa** (London, UK)

Bio-imaging of intracellular nitric oxide in single cells after mechanical loading

13.00 **Esther Tanck** (Nijmegen)

Effects of mechanical stimulation on bone structure

*Session 4 (Branding)*

**GENETICS OF STRESS: ROLE OF CORTICOSTEROID RECEPTORS**

*Moderators: Roel de Rijk and Erno*

*Vreugdenhil (Leiden)*

11.45 **Stefan Wüst** (Trier, Germany)

Association between common polymorphism in the glucocorticoid receptor gene and HPA-axis responses to psychosocial stress

12.15 **Liesbeth van Rossum** (Rotterdam)

Function of glucocorticoid receptor polymorphism

12.30 **Roel de Rijk** (Leiden)

Glucocorticoid and mineralocorticoid receptors in the human stress response

12.45 **Margien den Hollander-Gijsman** (Leiden)

A dimensional system to characterise the psychopathology of mood, anxiety and somatoform disorders

*Session 5 (Gelderland)*

**PSYCHIATRY AND THE METABOLIC SYNDROME**

*Moderator: Johanna Assies (Amsterdam)*

11.45 **Malcolm Peet** (Sheffield, UK)

Diet and fatty acid metabolism in relation to schizophrenia and the metabolic syndrome

12.15 **Anja Lok** (Amsterdam)

Obesity, fatty acids, homocysteine in recurrent depression

12.30 **Ieke Visser** (Amsterdam)

The hypothalamic-pituitary-adrenal(HPA)-axis and fatty acids in recurrent depression

12.45 **Francois Pouwer** (Amsterdam)

Depression, diabetes and fatty acids

13.00 **Solrun Vidarsdottir** (Leiden)

Effects of antipsychotic drugs on glucose metabolism

13.15 **POSTER SESSION ENDOCRINOLOGY**

including lunch (*Branding*)

*Session 6 (Branding)*

**HOT TOPICS IN ENDOCRINOLOGY**

*Chairperson: Anton Scheurink (Groningen) and Richard Feelders (Rotterdam)*

- 15.00 **Gianluca Aimaretti** (Turin, Italy)  
Traumatic brain injury and hypopituitarism  
(sponsored by Pfizer, Capelle a/d IJssel)
- 15.30 **Randall Sakai** (Cincinnati, OH, USA)  
Social stress, hormonal responses and energy balance  
(sponsored by Elsevier, Amsterdam)
- 16.00 break
- parallel sessions 7-10

*Session 7 (Doorwerth)*

**DIABETES AND FAT METABOLISM, LIPOPROTEIN REMNANTS**

*Moderators: Marcel Twickler (Nijmegen) and Ton Maassen (Leiden)*

- 16.30 **Pia Lundman** (Stockholm, Sweden)  
Diabetes and vascular function
- 17.00 **Peter Voshol** (Leiden)  
The (patho)physiological role of apolipoproteins in lipid and glucose homeostasis
- 17.15 **Aldo Grefhorst** (Groningen)  
Insulin sensitivity in animal models of hepatic steatosis
- 17.30 **Alexandra Mulder** (Nijmegen)  
Sympathetic nerve system and insulin resistance: the role of microcirculation
- 17.45 **Felix Kreier** (Amsterdam)  
A hypothalamic network projecting to fat tissue; role of the biological clock

*Session 8 (Branding)*

**PATHOPHYSIOLOGICAL IMPLICATIONS OF POLYMORPHIC VARIATIONS IN ENDOCRINE GENES**

*Moderator: Theo Visser (Rotterdam)*

- 16.30 **André Uitterlinden** (Rotterdam)  
Basic concepts and methodology; polymorphism in the vitamin D receptor
- 17.00 **Erica van den Akker** (Rotterdam)  
Polymorphisms in the cortisol receptor
- 17.15 **Joyce van Meurs** (Rotterdam)  
Polymorphisms in the estrogen receptor
- 17.30 **Joop Janssen** (Rotterdam)  
Polymorphisms in the IGF-I gene
- 17.45 **Robin Peeters** (Rotterdam)  
Polymorphisms in thyroid hormone-related genes

*Session 9 (Gelderland)*

**STRESS ENDOCRINOLOGY AND METABOLISM**

*Moderator: Anton Scheurink (Groningen)*

- 16.30 **Sietse de Boer** (Groningen)  
Neuroendocrinology of social stress
- 17.00 **Marijke Laarakker** (Utrecht)  
Isolation versus social stress: effects on experimental behavior
- 17.15 **Annetrude de Mooij** (Utrecht)  
Behavioral analyses in genetic dissection of food exploration strategies
- 17.30 **Angelique Heinsbroek** (Groningen)  
Effect of prenatal stress on the development of the metabolic syndrome
- 17.45 **Yanina Revsin** (Leiden)  
HPA axis regulation in type 1 diabetic mice

*Session 10 (Patio)*

**BASAL AND CLINICAL ASPECTS OF SOMATOSTATIN WITHIN THE ENDOCRINE SYSTEM**

*Sponsored by Ipsen Farmaceutica BV, Hoofddorp*

*Moderators: Richard Feelders and Leo Hofland (Rotterdam)*

- 16.30 **Wouter de Herder** (Rotterdam)  
Is there a role for novel somatostatin analogues in the treatment of neuroendocrine tumors?
- 17.00 **Phillipe Jaquet** (Marseille, France)  
Medical therapy of pituitary adenomas: chimeric compounds
- 17.15 **Joost van der Hoek** (Rotterdam)  
Potentials of the new somatostatin analogue SOM 230 in the treatment of pituitary disorders
- 17.30 **Virgil Dalm** (Rotterdam)  
Somatostatin versus cortistatin in physiological and pathological conditions

- 18.00 **NVE annual member meeting** (Doorwerth)

- 19.00 dinner (Restaurant)  
**POSTER AWARD CEREMONY ENDOCRINOLOGY**

*Session 11 (Branding)*

**LECTURE ORGANON AWARD WINNER**

*Chairperson: Aart-Jan van der Lelij (Rotterdam)*

- 21.00 Winner to be announced at the meeting by Netherlands Society for Endocrinology (NVE)



- 1  
**Van der Laan S**  
Corepressor expression in rat brain
- 2  
**Brinks V**  
Molecular and behavioural characterisation of male BALB/c and C57BL/6J mice
- 3  
**Meijer OC**  
Identification of novel glucocorticoid target genes in different mouse tissue through genome wide screening for paired hormone response elements
- 4  
**Sarabdjitsingh RA**  
The dynamic control of GR and MR by the ultradian secretion of corticosteroids
- 5  
**Mayer JL**  
Corticosterone-induced reduction in hippocampal neurogenesis is reversed by short-term treatment with the novel antidepressant RU486 (mifepristone)
- 6  
**Dalm S**  
The glucocorticoid antagonist mifepristone modifies steroid signaling and coping styles in mice
- 7  
**Morens C**  
MCH stimulates food and water intake and participates to the enhanced consumption of palatable food
- 8  
**Schmidt M**  
Blockade of metabolic signals during maternal separation suppresses a hypothalamic-pituitary-adrenal axis activation
- 9  
**Van Leeuwen N**  
Single nucleotide polymorphisms (SNPs) in the MR gene are associated with stress responsiveness
- 10  
**Mommersteeg PMC**  
Burnout is not reflected in deviant cortisol profiles or feedback
- 11  
**Revsin Y**  
HPA axis regulation in Type 1 diabetes
- 12  
**Marsman A**  
Does prenatal stress influence the development of insulin resistance?
- 13  
**Wielinga PY**  
Involvement of vagal afferents and meal-related signals in hydroxycitric acid induced satiety
- 14  
**Remmers F**  
Energy intake and expenditure after early postnatal food restriction in rats
- 15  
**Patsouris D**  
PPAR $\alpha$  governs glycerol metabolism
- 16  
**Korshennikova EV**  
Hepatic insulin signalling and gene expression during time course of *in vivo* insulin stimulation
- 17  
**Van den Hoek AM**  
PYY<sub>3-36</sub> treatment ameliorates insulin resistance in C57BL6-mice on a high fat diet
- 18  
**Van den Hoek AM**  
Both leptin deficiency and obese phenotype contribute to insulin resistance in *ob/ob* mice
- 19  
**Heijboer AC**  
Intravenous administration of ghrelin differentially affects hepatic and muscle insulin sensitivity
- 20  
**Reiling HW**  
The involvement of the LARS2 gene in Type 2 diabetes mellitus
- 21  
**Kok P**  
Increased circadian prolactin release is blunted after body weight loss in obese premenopausal women
- 22  
**Kok P**  
Short term bromocriptine treatment improves diurnal glucose metabolism and enhances energy expenditure in obese premenopausal women
- 23  
**Kok P**  
Spontaneous diurnal TSH secretion is enhanced in proportion to circulating leptin and is blunted after body weight loss in obese premenopausal women
- 24  
**Conemans EB**  
The growth hormone/insulin-like growth factor-I axis and cognitive function in elderly men
- 25  
**Visser JA**  
Ovarian follicle dynamics during the estrous cycle in anti-Müllerian hormone-deficient mice
- 26  
**Van de Heijning BJM**  
Chronic leptin infusion advances but immunoneutralization of leptin postpones puberty onset in female rats

27

**Ubink R**

Supplementation of estradiol increases the efficacy on bone of a new non-steroidal orally active androgen in orchidectomized rats

28

**Rijntjes E**

Fetal/neonatal hypo- and hyperthyroidism affects Leydig and Sertoli cell development

29

**Van Trotsenburg ASP**

The effect of thyroxine treatment started in the neonatal period on development and growth of two years old Down syndrome children: a randomized clinical trial

- 08.00 Registration (till 13.00)  
Posters Neuroscience 1 session to be mounted
- Session 12 (Branding)*  
**ENDOCRINOLOGY KEYNOTE LECTURE**  
*Chairperson: Sytze van Dam (Amsterdam)*
- 08.30 **Louis Gooren** (Amsterdam)  
Hormones and the brain, studies in transsexuals
- Separate and independant satellite schedule*  
**HUPO BPP International Workshop on Mouse Models for Neurodegeneration**
- 09.00 *Part 1 (Heelsum)*  
parallel sessions 13-16
- Session 13 (Doorwerth)*  
**GENDER, HORMONES AND BRAIN FUNCTION**  
*Moderators: Gert ter Horst (Groningen) and Mechiel Korte (Lelystad / Utrecht)*
- 09.30 **Inga Neumann** (Regensburg, Germany)  
Brain neuropeptides: regulation of stress coping not only in the maternal brain
- 10.00 **Zuoxin Wang** (Tallahassee, FL, USA)  
Dopamine regulation of social attachment in a monogamous rodent
- 10.30 **Cornelieke van de Beek** (Amsterdam)  
Prenatal influences of sex hormones on gender-related behavior in infants
- 10.45 **Christel Westenbroek** (Groningen)  
Sex-specific effects of 'social support' in rats after chronic stress
- Session 14 (Branding)*  
**IS EATING ALWAYS FUN?**  
*Moderators: Louk Vanderschuren and Roger Adan (Utrecht)*
- 09.30 **Kenneth Carr** (New York, NY, USA)  
Augmentation of drug reward by chronic food restriction: behavioral evidence and underlying mechanisms
- 10.00 **Jacqueline Hillebrand** (Utrecht)  
Hypothalamic signaling in an animal model of anorexia nervosa
- 10.15 **Donné Schmidt** (Amsterdam)  
Overlapping and segregating corticolimbic circuits involved in sucrose seeking and heroin seeking
- 10.30 **Ramona Guerrieri** (Maastricht)  
The relationship between impulsivity and feeding in humans
- 10.45 **Celine Morens** (Groningen)  
Interactions between cholinergic systems and melanin concentrating hormone
- Session 15 (Patio)*  
**CALCIUM AND EXOCYTOSIS**  
*Moderators: Remco Westerink and Matthijs Verhage (Amsterdam)*
- 09.30 **Ron Habets** (Rotterdam)  
Residual calcium and plasticity of transmitter release
- 09.45 **Sander Groffen** (Amsterdam)  
DOC2B and the art of vesicle pool maintenance: a molecular gearbox triggered by calcium
- 10.00 **Remco Westerink** (Amsterdam)  
Reduced vesicular catecholamine release in calbindin-D28k null mutant mouse chromaffin cells
- 10.15 **Guillermo Alvarez de Toledo** (Sevilla, Spain)  
Exocytosis studied with high resolution patch clamp capacitance, amperometric and fluorescence measurements
- Session 16 (Gelderland)*  
**NEUROTROPHINS: FROM THE CENTRAL NERVOUS SYSTEM TO THE NEUROENDOCRINE CELL**  
*Moderators: Wim Scheenen and Bruce Jenks (Nijmegen)*
- 09.30 **Susana Cohen-Cory** (Irvine, CA, USA)  
Neurotrophin-induced plasticity in the developing CNS: from dendrites and axons to synapses
- 10.00 **Thomas Dijkmans** (Leiden)  
The effects of nerve growth factor (NGF) on double-cortin-like kinase, a novel CamK-like kinase, in a PC12 cell model
- 10.15 **Shridhara Chrakravarthy** (Amsterdam)  
Cell autonomous inhibition of TrkB signalling can induce dendritic pruning in the adult visual cortex
- 10.30 **Adhanet Kidane** (Nijmegen)  
Expression and function of p75 and TrkB receptors in the pituitary melanotrope cell
- 10.45 **Dorien de Groot** (Nijmegen)  
Generation and analysis of *Xenopus laevis* with cell-specific transgene expression of (pro)BDNF
- Separate and independant satellite schedule*  
**Neuroinformatics in the Netherlands**
- 10.00 *Part 1 (Renkum)*
- Separate and independant satellite schedule*  
**HUPO BPP International Workshop on Mouse Models for Neurodegeneration**
- 10.30 *Part 2 (Heelsum)*
- 11.00 break

*Session 17 (Branding)*

**MARIUSTAUSKLECTURE**

*Chairperson: Ron de Kloet (Leiden)*

11.30 **Bruce McEwen** (New York City, NY, USA)  
Stress, sex and the hippocampus

12.15 lunch (*Paviljon*)

parallel sessions 18-21

*Session 18 (Doorwerth)*

**NEURON-SCHWANN CELL INTERACTIONS IN HEALTH AND DISEASE**

*Moderators: Dies Meijer (Rotterdam) and Mark Verheijen (Amsterdam)*

13.30 **Lawrence Wrabetz** (Italy)  
Protein quality control in the pathogenesis of Charcot Marie Tooth 1B hereditary neuropathy

14.00 **Martine Jaegle** (Rotterdam)  
The Claw Paw gene and its role in peripheral nerve development

14.15 **Mark Verheijen** (Amsterdam)  
Schwann cell SREBP-1 and associated lipid metabolism are implicated in diabetic peripheral neuropathy

14.30 **Valeria Ramaglia** (Amsterdam)  
The role of complement in Wallerian degeneration

14.45 **Martijn Tannemaat** (Amsterdam)  
The effect of lentiviral vector-mediated delivery of neurotrophic factors on peripheral nerve regeneration

*Session 19 (Branding)*

**THE HPA AXIS IN INFLAMMATORY DISEASES**

*Moderator: Inge Huitinga (Amsterdam)*

13.30 **Christoph Heesen** (Hamburg, Germany)  
HPA-axis activity in multiple sclerosis, relation with severity and cognition

14.00 **Bert Beishuizen** (Amsterdam)  
HPA-axis in severe critical illness

14.30 **Lisa van Winsen** (Amsterdam)  
Glucocorticoid receptor in multiple sclerosis

14.45 **Zeynel Erkut** (Amsterdam)  
HPA-axis in multiple sclerosis; post mortem studies

*Session 20 (Patio)*

**GABA IN CIRCUITS**

*(organized under auspices of the 'SWO/Liga tegen Epilepsie')*

*Moderators: Tineke van Rijn (Nijmegen) and Govert Hoogland (Maastricht)*

13.30 **Arjen Brussaard** (Amsterdam)  
GABAergic synapses: from receptors to cognition

14.00 **Maarten Kamermans** (Amsterdam)  
GABA, a neuromodulator in the retina

14.30 **Gitte Bouwman** (Nijmegen)  
GABA and absence epilepsy: corticothalamic circuits

14.45 **Lia Liefwaard** (Leiden)  
Changes in GABA<sub>A</sub> receptor properties in the post-SE model for temporal lobe epilepsy

*Session 21 (Gelderland)*

**DIABETES AND THE BRAIN**

*Moderators: Suat Simsek (Amsterdam) and Geert-Jan Biessels (Utrecht)*

13.30 **Chris Ryan** (Pittsburgh, PA, USA)  
Cognitive (dys)function and diabetes

14.00 **Alette Wessels** (Amsterdam)  
Type 1 diabetes mellitus and cognitive dysfunction: microangiopathy of the brain

14.15 **Ineke Brands** (Utrecht)  
Brain MRI correlates of cognitive dysfunction in type 2 diabetes mellitus

14.30 **Peter de Jonge** (Groningen)  
Depression and diabetes mellitus: what is the relationship?

14.45 **Esther Pelgrim-Korf** (Amsterdam)  
Relationship between diabetes mellitus and hippocampal atrophy: the HAAS study

*Separate and independent satellite schedule*  
**HUPO BPP International Workshop on Mouse Models for Neurodegeneration**

13.30 *Part 3 (Heelsum)*

*Separate and independent satellite schedule*  
**Neuroinformatics in the Netherlands**

13.30 *Part 2 (Renkum)*

**POSTER SESSION NEUROSCIENCE 1**

*(Branding and Bar entrance area)*

*Separate and independent satellite schedule*  
**HUPO BPP International Workshop on Mouse Models for Neurodegeneration**

15.20 *Part 4 (Heelsum)*

parallel sessions 22-25

*Session 22 (Branding)*

**NEURO-GLIA SIGNALING IN THE CNS**

*Moderator: Eric Boddeke (Groningen)*

- 17.00 **Gorgio Carmignoto** (Padova, Italy)  
Astrocyte-mediated neuronal synchrony in the hippocampus
- 17.30 **Alfonso Araque** (Madrid, Spain)  
Synaptic information processing by astrocytes
- 18.00 **Eiko de Jong** (Groningen)  
Neuron-glia communication in neuronal stress
- 18.15 **Robert Hoek** (Amsterdam)  
CD200-mediated regulation of microglia activation

*Session 23 (Gelderland)*

**SHORT-CUTS AND TRAFFIC JAMS: PROTEIN TRANSPORT IN NEURODEGENERATION**

*Moderator: Wiep Scheper (Amsterdam)*

- 17.00 **Casper Hoogenraad** (Boston, MA, USA)  
GRIP1 specifies dendrite morphogenesis by regulating receptor trafficking
- 17.30 **Martijn Roelandse** (Amsterdam)  
The role of synaptic vesicle release in neurodegeneration and axon outgrowth
- 17.45 **Sidhartha Chafekar** (Amsterdam)  
A $\beta$  trafficking and toxicity
- 18.00 **Peter Peters** (Amsterdam)  
Intracellular trafficking of PrP

*Session 24 (Patio)*

**IMPULSE ACTIVITY IN THE MIDBRAIN DOPAMINE SYSTEM AND THE VULNERABILITY TO DRUGS OF ABUSE**

*Moderator: Geert Ramakers (Utrecht)*

- 17.00 **Michela Marinelli** (Chicago, IL, USA)  
Electrophysiological correlates of addiction liability
- 17.45 **Mischa de Rover** (Amsterdam)  
Long term effects of changes in dopaminergic transmission on cholinergic modulation in the nucleus accumbens
- 18.00 **Annelies Olijslager** (Amsterdam)  
Serotonin's potentiating interaction with dopamine neurons in SN and VTA areas of the rat
- 18.15 **Daniel Mathon** (Utrecht)  
Neurophysiological changes in the midbrain dopamine system of  $\mu$  opioid receptor knockout mice

*Session 25 (Doorwerth)*

**IMAGING BIOLOGICAL PROCESSES WITH MRI**

*Moderators: Erwin Blezer (Utrecht) and Elga de Vries (Amsterdam)*

- 17.00 **Mathias Hoehn** (Köln, Germany)  
In vivo MR imaging of cells in brain: methodological and physiological challenges
- 17.30 **Raoul Oude Engberink** (Utrecht)  
Ex vivo labeling of monocytes for in vivo cell tracking using MR imaging
- 17.45 **Willem Mulder** (Eindhoven)  
Lipid-based contrast agents for molecular and cellular MR imaging
- 18.00 **Jeroen Geurts** (Amsterdam)  
Grey matter involvement in multiple sclerosis: pathology and MRI
- 18.15 **Jet van der Zijden** (Utrecht)  
Mapping cortical projections after stroke using in vivo manganese enhanced MRI

19.00 dinner (*Restaurant*)

**POSTERAWARD CEREMONY NEUROSCIENCE 1**

21.00 *Session 26 (Branding)*

**HERSENSTICHTING LECTURE**

*Chairperson: Marian Joëls (Amsterdam)*

**James McGaugh** (Irvine, CA, USA)  
Emotional arousal, memory consolidation and the amygdala

1

**Tiejesma B**

Regulation of energy balance by long-term overexpression of rAAV delivered npy in the mediodorsal hypothalamus

2

**Verhagen LAW**

Involvement of serotonin and dopamine metabolism in rats exposed to activity-based anorexia

3

**La Fleur SE**

Hepatic vagotomy alters limbic and hypothalamic neuropeptide responses to insulin-dependent diabetes and voluntary lard ingestion

4

**Groeneweg FL**

Effects of an hepatic vagotomy on the melanocortin system and whole body energy metabolism in rats fed a high fat high sugar diet

5

**Geerse GJ**

The role of the melanocortin system in visceral pain

6

**De Lange RPJ**

Changes in NPY, CCK and substance P messenger RNA expression in stress sensitised rats

7

**De Krom M**

Genotypic-phenotypic dissection of eating disorders with a focus on neuropeptides

8

**Zhang H-Y**

Regulation of electric activity of *Xenopus laevis* melanotropes by brain-derived neurotrophic factor

9

**Hendriks WTJ**

Lentiviral vector-mediated gene transfer of BDNF, GDNF and NT-3 to the injured rat spinal cord

10

**Bosman LWJ**

TrkB-dependent climbing fiber elimination in the developing cerebellum

11

**Bruschettini M**

A single course of antenatal betamethasone, growth retardation, S100B protein, and cell proliferation within the brain and the lungs

12

**Boelen E**

The susceptibility of various brain cells for *Chlamydia pneumoniae* infection: an *in vitro* study

13

**Pudovkina OL**

Effect of MK801 in global transient ischemia in gerbils

14

**Cao C**

Cognitive impairments indicative of striatal dysfunction in transgenic Huntington's disease rats

15

**Cryns K**

Phenotypic characterization of the myo-inositol monophosphatase 1 (IMPA1) deficient mice

16

**Roman V**

Sleep restriction by forced activity decreases hippocampal cell proliferation

17

**Meerlo P**

Chronic sleep loss has long-lasting effects on 5-HT<sub>1a</sub> receptor sensitivity

18

**Fronczek R**

Basal metabolic rate and autonomic regulation at rest in human narcolepsy

19

**Van Vliet SAM**

Neuroprotective effects of Modafinil in a non-human primate Parkinson model

20

**Ogan A**

Alterations in the kinetic activity of aromatic-l-amino acid decarboxylase and preliminary 2-de investigation of the brains in the 6-OHDA induced Parkinson's disease model of rat

21

**Van Dam A-M**

Expression of interleukin-1 family genes in experimental Parkinson's disease: regional regulation of interleukin-1 action?

22

**Dolga AM**

Cytokines-mediated neuroprotective signaling pathways in the central nervous system

23

**Knijff EM**

The production of IL-1 $\beta$  and IL-6 by monocytes of bipolar patients: effects of lithium

24

**Vallès A**

Chemokine and chemokine receptor expression after traumatic brain injury

25

**Koning N**

The role of CD200-CD200 receptor interaction in the regulation of microglia and macrophages in multiple sclerosis

26

**Teunissen CE**

Specific oligodendrocyte damage in a three-dimensional brain spheroid culture system

27

**Dudok JJ**

Raphe nucleus organotypic slice culture to study the serotonergic connectivity *ex vivo*

28

**Van der Meulen AAE**

Migration of neural stem cells towards pathology in the adult mouse brain

29

**Lemmens EMP**

Fate of newborn dentate granule cells after neonatal seizures

30

**Van Gemert NG**

The effect of chronic stress on hippocampal calcium currents - reversal by RU38486?

31

**Middeldorp J**

A $\alpha$  expressed in the cytosol is efficiently degraded and does not inhibit the proteasome

32

**Phinney AL**

Elevated copper levels are associated with reduced  $\beta$ -amyloid concentrations *in vivo*

33

**Hooijmans CR**

Relationship between cholesterol, cerebrovascular degeneration and  $\beta$ -amyloid deposition

34

**Mulder M**

Differential effects of 24(S)-hydroxycholesterol on the expression of apolipoprotein E, the low density lipoprotein receptor, HMGCoA-reductase and ABCG4 in astrocytes and neurons

35

**Jansen PJ**

Apolipoprotein E chaperones plant sterols in transport from blood to brain

36

**Wu YH**

A promoter polymorphism in the monoamine oxidase a gene modulates the susceptibility to monoamine oxidase a dysfunction in Alzheimer's disease

37

**Wilhelmus MMM**

Differential vascular expression of amyloid-beta receptors and association with cerebral amyloid angiopathy in Alzheimer's disease brains

38

**Kap YS**

Novel endoplasmic reticulum stress response targets in Alzheimer's disease

39

**Scheper W**

Upregulation of Rab6A in Alzheimer's disease is connected to endoplasmic reticulum stress

40

**Van Weering JRT**

The role of Rb3a in chromaffin granule docking

41

**De Kock CPJ**

Sparse coding in rat primary somatosensory (barrel) cortex

42

**Rife M**

The role of FMRP in dendritic mRNA transport and glutamatergic signalling in the brain

43

**Van Vliet EA**

Inhibition of the multidrug transporter P-glycoprotein by XR9576 improves seizure control in phenytoin-treated chronic epileptic rats

44

**Rijkers K**

Vagus nerve stimulation in the amygdala kindled rat

45

**Van Vught PWJ**

Identification of modifier genes that can delay ALS onset in a mouse model using genetic mapping and gene expression profiling

46

**Vo TT**

The role of Semaphorin 3A in the disassembly of neuromuscular junctions in the G93A-hSOD1 mouse, a model for amyotrophic lateral sclerosis

47

**Teuling E**

Neuron-specific expression of mutant SOD1 protein is sufficient to cause motor neuron disease in mice

48

**Korosi A**

Response of the Edinger-Westphal urocortin 1 system to heterotypic chronic stress in the rat

49

**Corstens GJH**

Urocortin 1 stimulates *Xenopus* melanotrope cell functioning by activation of CRF receptor 1

50

**Calle M**

Effect of starvation on cocaine-amphetamine related transcript, urocortin 1, corticotropin-releasing factor and met-enkephalin immunoreactivities in the brain and pituitary of *Xenopus laevis*

51

**Gounko NV**

The effect of CRF and urocortin in GluR $\alpha$ 2 expression and its distribution in parallel fiber-Purkinje cell synapses

52

**De Wit S**

Decreased estrogen receptor  $\alpha$  expression in corticotrophin-releasing hormone neurons near active hypothalamic MS lesions

53

**Bao AM**

Evidence of a direct androgenic involvement in the activity of human corticotropin-releasing hormone neurons: an immunocytochemical and bandshift analysis study

54

**Alfarez DN**

The effects of short-term corticosterone incubation on dendritic morphology and spine density in hippocampal CA1 neurons

55

**Roet KCD**

The contribution of proteoglycans, Semaphorin3A and their possible interactions in neurite outgrowth

56

**De Wit J**

Fast axonal transport and targeting to growth cones and filopodia of the secreted Semaphorin Sema3A in cortical neurons

57

**Vogelaar CF**

Intra-axonal mRNA expression in the peripheral nervous system

58

**Wierda KDB**

PKC-dependent phosphorylation of Munc18-1 is essential for short-term plasticity

59

**Toonen RF**

Evanescence wave microscopy reveals that Munc18-1 organizes snare-dependent tethering of secretory vesicles

60

**De Wit H**

Syntaxin 1 independent role for Munc18-1 in secretory vesicle docking

61

**Van den Oever MC**

A proteomics approach to identify long-term molecular changes in the rat medial prefrontal cortex resulting from heroin and sucrose self-administration

62

**Van Tijn P**

Partial proteasome inhibition by aberrant ubiquitin impairs learning and memory in transgenic mice

63

**Schulenburg T**

Morbus Alzheimer - differential, quantitative proteome analysis and localisation of post-translational modifications in a transgenic mouse with endogenous proteasome inhibition

64

**Schenk GJ**

The function of the DCLK gene in hippocampal plasticity

65

**Stam FJ**

Finding transcription factors involved in neuroregeneration: a genomics approach

66

**Mac Gillavry HD**

Transcriptional networks in neuronal regeneration

67

**De Bree FM**

Gene expression profiling of the olfactory system

68

**Franssen EHP**

Gene expression profiling of the olfactory ensheathing glia cell

69

**Bossers K**

Gene expression profiling of Parkinson's disease

70

**Gilany K**

Analysis of mouse hippocampal proteome by multidimensional protein identification technology (MudPit)

71

**Gilany K**

C-4 reversed-phase high-performance liquid chromatography prefractionation prior to proteome analysis of N2A cell-line

72

**Gilany K**

Proteome analysis of neuroblastoma cell line SH-SY5Y by GeLC-MS/MS and 2-DE

73

**Schut D**

Expression of two distinct tomosyn genes in the mammalian brain

74

**Counotte DC**

Sexual reward causes transcriptional changes in the limbic system



08.00 Registration (until 13.00 h)  
Posters Neuroscience 2 session to be mounted

Parallel sessions 27-30

*Session 27 (Doorwerth)*

**SEROTONIN SYSTEMS IN PSYCHIATRY**

*(organized under the auspices of the Dutch-Belgian Society for Experimental and Clinical Neurosciences EKN)*

*Moderators: Thomas Cremers and Bart Ellenbroek (Nijmegen)*

08.30 **Mark Millan** (Servier, France)  
5-HT and the treatment of depression; a summary of available concepts/drugs and future perspectives for the novel exploitation of serotonergic mechanisms

09.00 **Fokke Bosker** (Groningen)  
Physiological role of median raphe 5-HT<sub>1A</sub> autoreceptors

09.15 **Herman Westenberg** (Utrecht)  
Overview of serotonin related clinical developments in treatment of depression and anxiety

09.30 **Meg van Bogaert** (Utrecht)  
The 5-HT<sub>1A</sub> receptor mouse and anxiety

09.45 **Edwin Cuppen** (Utrecht)  
Functional characterization of the serotonin transporter knockout rat

*Session 28 (Patio)*

**BETWEEN THE EARS: NEURAL MECHANISMS OF SOUND DECODING**

*Moderators: Gerard Borst (Rotterdam) and Huib Versnel (Utrecht)*

08.30 **David Moore** (Nottingham, UK)  
Auditory neuroscience: new frontiers

09.00 **Adrian Rodriguez-Contreras** (Rotterdam)  
A neuronal microcircuit in the barn owl auditory space map: implications for coding of binaural cues

09.15 **John van Opstal** (Nijmegen)  
Role of the auditory midbrain in sound localization

09.45 **Nienke van Atteveldt** (Maastricht)  
Cross-modal modulation of speech sound processing in the planum temporale

*Session 29 (Gelderland)*

**MOLECULAR ASPECTS OF RECEPTOR AND CHANNEL FUNCTION**

*Moderators: Henk Vijverberg (Utrecht) and Hans van Hooft (Amsterdam)*

08.30 **David Colquhoun** (London, UK)  
Binding and gating at the single molecule: studies with nicotinic and glycine receptors

09.15 **Guus Smit** (Amsterdam)  
Acetylcholine binding protein: a structural and functional model of the nicotinic receptor

09.30 **Hans van Hooft** (Amsterdam)  
Structure and function of serotonin 5-HT<sub>3</sub> receptors in the CNS

09.45 **Chantal Smulders** (Utrecht / Den Haag)  
Subunit structure and function of nicotinic ACh receptors

*Session 30 (Branding)*

**NEUROGENESIS AND GLIOGENESIS IN CORTICAL DEVELOPMENT: MOLECULAR AND CELLULAR MECHANISMS**

*Moderators: Paul Lucassen (Amsterdam) and Erno Vreugdenhil (Leiden)*

08.30 **Stephen Noctor** (San Francisco, CA, USA)  
Patterns of neuronal migration in the embryonic cortex

09.00 **Erno Vreugdenhil** (Leiden)  
Doublecortin-like, a novel microtubule associated protein specifically expressed in radial glia and neuronal precursors, is crucial for mitotic spindle stability

09.15 **Karin Boekhoorn** (Amsterdam)  
Expression of doublecortin and doublecortin-like in the embryonic nervous system

09.30 **Sharon Kolk** (Utrecht)  
'Ephective' signalling: Eph and ephrins during cortical development

09.45 **Marco van Ham** (Rotterdam)  
Microtubule dynamics and neuronal development

10.00 **POSTER SESSION NEUROSCIENCE 2**  
*(Branding and Bar entrance area)*

*Session 31 (Branding)*

**EKN KEYNOTE LECTURE**

*Chairperson: Bart Ellenbroek (Nijmegen)*

12.00 **Michel Ferrari** (Leiden)  
Migraine, from patients to transgenic mice models, ..... and back

12.45 lunch (*Paviljon*)

parallel sessions 32-35

*Session 32 (Branding)*

**HORMONES, PLASTICITY AND BEHAVIOR**

*Moderators: Paul Lucassen, Harm Krugers and Marian Joëls (Amsterdam)*

- 14.00 **Gal Richter Levin** (Haifa, Israel)  
Stress, cognition and plasticity
- 14.30 **Olof Wiegert** (Amsterdam)  
Corticosterone hampers and facilitates synaptic plasticity; the importance of timing
- 14.45 **Danielle Champagne** (Leiden / Amsterdam)  
Maternal care and plasticity
- 15.00 **Marjolein Gerrits** (Groningen)  
Cyclic estradiol treatment modulates the neurobiological responses to stress
- 15.15 **Vera Brinks** (Leiden)  
MR/GR interactions in cognition and emotion

*Session 33 (Doorwerth)*

**HOW TO SILENCE YOUR NERVES:  
APPLICATION OF SMALL INTERFERING  
RNA**

*Moderators: Simone Niclou (Amsterdam) and Erno Vreugdenhil (Leiden)*

- 14.00 **Roderick Beijersbergen** (Amsterdam)  
Large scale RNAi screens in mammalian cells as a tool to identify novel drug targets
- 14.30 **Carlos Fitzsimons** (Leiden)  
Silencing genes in the living brain: application of small interference RNA
- 15.00 **Erich Ehlert** (Amsterdam)  
Stimulating axonal regeneration through siRNA-mediated knock down of semaphorin receptors
- 15.15 **Ronald van Kesteren** (Amsterdam)  
Possibilities and impossibilities of dsRNA-mediated knock-down of gene expression in cultured molluscan neurons

*Session 34 (Patio)*

**VOLTAGE SENSITIVE DYES AS NEURONAL  
ACTIVITY INDICATORS**

*(sponsored by Graduate School Neuroscience Amsterdam ONWA)*

*Moderator: Wytse Wadman (Amsterdam)*

- 14.00 **Jian-Young Wu** (Washington, DC, USA)  
Propagating waves in neocortical slices: an optical imaging study
- 14.45 **Bogden Milojkovic** (Rotterdam)  
Voltage-sensitive dye imaging of glutamate-evoked dendritic potentials in layer V pyramidal neurons
- 15.00 **Tim Heistek** (Amsterdam)  
Voltage sensitive dye imaging of the mouse prefrontal cortex
- 15.15 **Natalie Cappaert** (Amsterdam)  
Stimulated and oscillatory activity in the hippocampal-entorhinal cortex slice

*Session 35 (Gelderland)*

**THE NEUROMUSCULAR SYNAPSE: BASIC  
AND CLINICAL ASPECTS**

*Moderators: Jan Verschuuren and Jaap Plomp (Leiden)*

- 14.00 **Clarke Slater** (Newcastle upon Tyne, UK)  
Current thoughts about the functional organization of the neuromuscular junction
- 14.30 **Bart Jacobs** (Rotterdam)  
Mechanisms of IVIg therapy in auto-immune neuromuscular disorders
- 14.45 **Mariska van der Plas** (Leiden)  
Novel role of dystrophin at the drosophila neuromuscular junction
- 15.00 **Mario Losen** (Maastricht)  
The role of rapsyn in myasthenia gravis
- 15.15 **Ann de Haes** (Groningen)  
Reversal of competitive neuromuscular block: a revolutionary approach

**Satellite Netherlands Society for  
Neurophysiology**

- 14.00 *Part 1 (Heelsum)*  
**Cognition, behavior and emotion in adults with brain dysfunctions**
- 15.30 break

*Session 36 (Branding)*

**NEUROFEDERATION LECTURE**

*Chairperson: Eric Boddeke (Groningen)*

- 16.00 **Helmut Kettenmann** (Berlin, Germany)  
Mechanisms of neuron-glia interaction

**POSTER AWARD CEREMONY**

**NEUROSCIENCE 2**

**Satellite Netherlands Society for Neurophysiology**

- 16.00 *Part 2 (Heelsum)*  
**Cognition, behavior and emotion in healthy children and children with brain dysfunctions**

parallel sessions 37-40

*Session 37 (Doorwerth)*

**MECHANISM OF SYNAPTIC PLASTICITY**

*Moderators: Nial Burnashev and Christian Hansel (Rotterdam)*

- 17.00 **Frances Edwards** (London, UK)  
LTP - a homeostatic mechanism to wipe the memory slate clean?
- 17.30 **Jonathan Jay Couey** (Amsterdam)  
Nicotine and the prefrontal cortex synaptic plasticity
- 17.45 **Marcel de Jeu** (Rotterdam)  
Motor learning in LTD/LTP-deficient mice
- 18.00 **Wytse Wadman** (Amsterdam)  
Scaling neuronal excitability in response to non-specific synaptic activity
- 18.15 **Nail Burnashev** (Amsterdam)  
LTP in mice with prolonged decay kinetics of NMDAR-mediated EPSCs

*Session 38 (Branding)*

**NEUROGENOMICS: FROM MOLECULAR ANATOMY TO BEHAVIORAL PHENOTYPE**

*(partially sponsored by EUPEAH)*

*Moderator: Nicole Datson (Leiden)*

- 17.00 **Mark Vawter** (Irvine, CA, USA)  
Postmortem gene expression studies in neuropsychiatric disorders
- 17.45 **Maarten Morsink** (Leiden)  
Generation of a molecular atlas of the hippocampus using laser microdissection and DNA microarrays
- 18.00 **Yongjun Qin** (Amsterdam)  
Gene expression changes in single dentate granule neurons after chronic unpredictable stress
- 18.15 **Jonas Hauser** (Zurich, Switzerland)  
Long-term neurobehavioral effects of prenatal dexamethasone in rats and marmosets

*Session 39 (Patio)*

**5-HT AND COGNITION**

*Moderator: Arjan Blokland (Maastricht)*

- 17.00 **Alfredo Meneses** (Mexico City, Mexico)  
Overview of 5-HT receptor subtypes in learning and memory
- 17.30 **Marleen Wingen** (Maastricht)  
Effects of serotonergic drugs on learning and memory in healthy volunteers
- 17.45 **Martijn Meeter** (Amsterdam)  
Modelling memory functions of 5-HT
- 18.15 **Geoffrey van de Plasse** (Amsterdam)  
Role of 5-HT in cognitive flexibility in rats

*Session 40 (Gelderland)*

**LIVING UNDER UNCERTAINTY: TOWARDS UNDERSTANDING THE FOUNDATIONS OF HUMAN AND ANIMAL LONG-TERM CHOICE BEHAVIOR**

*Moderator: Ruud van den Bos and Dennis Schutter (Utrecht)*

- 17.00 **Edward de Haan** (Utrecht)  
Overview neuropsychological processes of decision making in humans in real-life and laboratory models
- 17.30 **Dennis Schutter** (Utrecht)  
Psychopathology of decision making in humans
- 17.45 **Henriëtte Prast** (Amsterdam)  
Decision making in behavioral finance
- 18.00 **Ruud van den Bos** (Utrecht)  
Animal models of decision making
- 18.15 **Matthijs Feenstra** (Amsterdam)  
Neurochemistry of decision making in rats
- 19.00 dinner (*Restaurant*)

*Session 41 (Branding)*

**NVP KEYNOTE LECTURE**

*Chairperson: Jaap Murre (Amsterdam)*

- 21.00 **Ian Robertson** (Dublin, Ireland)  
*title pending*

1

**Stienen PJ**

Fentanyl-induced depression of vertex-recorded, rather than of primary somatosensory cortex-recorded, somatosensory-evoked potentials, predict efficacy of analgesia as measured by fear-conditioned behaviour in the rat

2

**Stienen PJ**

Development of a rat model using somatosensory-evoked potentials to predict efficacy of analgesia as measured by fear-conditioned behaviour

3

**Jans L**

The effects of acute tryptophan depletion on affective behaviour and cognition in male and female Wistar rats

4

**Van der Kam EL**

Cocaine addiction: which factors play a role?

5

**De Wilde MC**

Spatial memory impairment in beta-amyloid infused mice

6

**Caramaschi D**

Pre- and postsynaptic 5-HT<sub>1a</sub> receptor functionality in mice selected for high and low aggression

7

**Natarajan D**

Comparative analysis of the aggressive behavioral phenotypes in three artificially selected strains of mice

8

**Cornelisse LN**

Somatodendritic release of 5-HT in the dorsal raphe nucleus due to local NMDA receptor activity

9

**Cornelisse LN**

Chronic fluoxetine treatment reduces 5HT<sub>1a</sub> autoreceptors in an animal model for depression

10

**Jongsma ME**

Combining augmentation strategies in antidepressive treatment - is augmentation of the citalopram induced 5-HT response dependent on precursor availability?

11

**Rea K**

The influence of alpha-1 receptors on citalopram-induced increase of 5-HT levels in rat hippocampus

12

**Wallinga AE**

Long-lasting neurotoxic effect of dex-fenfluramine on the 5-HT system in the rat brain is modulated by ambient temperature

13

**De Jong TR**

Effects of chronic treatment with fluvoxamine and paroxetine during adolescence on 5-HT-related behavior in adult male rats

14

**Homberg JR**

Phenotyping of the serotonin transporter knockout rat

15

**Govers R**

The initial steps towards neuronal polarization

16

**Heimel JA**

Functional imaging of the mouse visual system

17

**Jacobs EH**

Real-time visualisation of circadian clock proteins in living suprachiasmatic nucleus slices

18

**Houtman SH**

Developmental expression and microtubule association of EML4, a microtubule stabilizing protein

19

**Van der Hart MGC**

*In vitro* and *in vivo* recovery of different types of microdialysis membranes for neuropeptides and "classical" neurotransmitters

20

**Van Hooijdonk LWA**

Lentiviral-based manipulation of corticosteroid receptor expression in the mouse brain: application of short interference RNA

21

**Kozicz T**

Period 2 expression in urocortin 1 neurons in the rat Edinger-Westphal nucleus

22

**Van Gassen KLI**

Molecular characterization of epilepsy by microarray analysis of gene expression in the human hippocampus

23

**Kaja S**

Neuromuscular synaptic characterization of a novel CACNA1A knock-in mouse with the FHM1 S218L mutation

24

**Van Elburg RAJ**

Transient microcircuit dynamics for the neocortex

25

**Van Aerde KI**

Gamma-band oscillations in rat prefrontal cortex

26

**Meredith RM**

Action potential-induced calcium dynamics in dendrites and dendritic spines of prefrontal cortex layer 2/3 pyramidal neurons

27

**Min R**

Inhibition of spike timing-dependent plasticity induction by nonfibrillar  $\beta$ -amyloid in layer 2/3 of the neocortex

28

**Krugers HJ**

In vivo regulatable expression of GFP tagged GluR1 subunits

29

Holmgren C

Spike-timing-dependent plasticity at excitatory synapses onto layer 2/3 pyramidal cells within the prefrontal cortex

30

**Hojjati MR**

H-Ras/ERK/synapsin I signalling modulates presynaptic plasticity and learning

31

**Van Woerden GM**

The role of the H-Ras/ERK/synapsin I signalling pathway in learning

32

**Lubbers LJ**

Effects of 8-OHDPAT, a selective 5HT<sub>1a</sub> agonist, on prepulse inhibition and telemetry in apomorphine-susceptible and apomorphine-unsusceptible rats

33

**Rutten K**

Rolipram reverses scopolamine-induced and time dependent forgetting in object recognition by different mechanisms of action

34

**Boekhoorn K**

Adult neurogenesis in relation to LTP and hippocampus dependent memory in tau transgenic mice

35

**Veneman AJ**

Neural stem cell differentiation pattern after TSA treatment

36

**De Bruijn J**

Transient co-expression of the transcription factors Olig1 and Olig2 in neural stem cells

37

**Mollon JV**

Effects of social conflicts on hippocampal neurogenesis in winning and losing rats

38

**Van Eekelen JAM**

Embryonic expression of Scl is required for brain development

39

**Van Donkelaar EL**

The effects of acute tryptophan depletion on BDNF protein levels in brain and serum of male and female rats

40

**Wu L**

Rat neural precursor cells improve viability of neurons in co-cultured postmortem human brain tissue slice

41

**Weenink RP**

Does adenovirus infect normal human brain tissue?

42

**Lutgens SI**

Quantitative analysis of living cells in post-mortem human brain-samples in relation to neurotrophic factors

43

**Dubelaar EJJ**

The human cholinergic, neurotrophic and metabolic response of degenerating neurons of Alzheimer's disease patients, to neurotrophic growth factors in an *in vitro* study

44

**Balesar RA**

Electrical activity in post-mortem adult human brain tissue cultures

45

**Jacobs EH**

Cortical Cdk5, Munc18a and Mint1/x11á protein levels are enhanced during the progression of Alzheimer's disease: evidence for a neuroprotective mechanism?

46

**Özen H**

Dissociation of motor and cognitive performance during bilateral deep brain stimulation of the subthalamic nucleus in a rat model of Parkinson disease

47

**Niks EH**

Strong association of myasthenia gravis with anti-musk antibodies and HLA-DR14-DQ5: arguments for a distinct disease entity and pathogenesis

48

**Titulaer MJ**

Associated autoimmune diseases in patients with myasthenia gravis or the Lambert-Eaton myasthenic syndrome and their families

49

**Van den Berge SA**

Gene expression profiling of spinal motor neurons in a mouse model of amyotrophic lateral sclerosis

08.00 Registration (until 13.00 h)  
Posters Cognitive and Behavioral Neuroscience session to be mounted

Parallel sessions 42-45

*Session 42 (Doorwerth)*

**ATTENTION AND WORKING MEMORY**

*Moderator: Chris Olivers (Amsterdam)*

- 08.30 **Edward Awh** (Eugene, OR, USA)  
On the relationship between attention and working memory
- 09.00 **Steven Scholte** (Amsterdam)  
Scene segmentation during inattentive blindness
- 09.15 **Bernhard Hommel** (Leiden)  
How the brain blinks: a binding account
- 09.30 **Sander Martens** (Groningen)  
To blink or not to blink: individual differences in the allocation of attention
- 09.45 **Chris Olivers** (Amsterdam)  
Attentional capture through memorized features

*Session 43 (Branding)*

**NEUROACTIVE STEROIDS IN EMOTION AND STRESS**

*(organized by the Section Biological Psychiatry of the Dutch Society for Psychiatry)*  
*Moderators: Robert Verkes (Nijmegen) and Jack van Honk (Utrecht)*

- 08.30 **Torbjörn Bäckström** (Umeå, Sweden)  
Basis of sex and stress hormone-induced CNS symptoms and their treatment
- 09.00 **Jack van Honk** (Utrecht)  
Dynamic brain systems in quest for emotional homeostasis
- 09.15 **Frank van Broekhoven** (Nijmegen)  
Neuroactive steroids in mood and stress regulation
- 09.30 **Erno Hermans** (Utrecht)  
Effects of testosterone on emotional processing
- 09.45 **Guido van Wingen** (Nijmegen)  
Effects of progesterone on emotional processing: an fMRI study

*Session 44 (Gelderland)*

**COGNITIVE FUNCTION IN MDMA AND CANNABIS USERS DURING INTOXICATION AND ABSTINENCE**

*Moderator: Jan Ramaekers (Maastricht)*

- 08.30 **Valerie Curran** (London, UK)  
Acute and residual neuropsychological effects of MDMA
- 09.00 **Gerry Jager** (Utrecht)  
Effects of chronic MDMA use on memory processing: an fMRI study
- 09.15 **Cecile Henquet** (Maastricht)  
Sensitivity to cannabis challenge in schizophrenic patients and recreational cannabis users
- 09.30 **Kim Kuypers** (Maastricht)  
Decision making and impulsivity during acute MDMA and alcohol intoxication
- 09.45 **Peter van Ruitenbeek** (Maastricht)  
Decision making tasks during acute cannabis intoxication

*Session 45 (Patio)*

**SPEECH PERCEPTION IN RELATION TO SPEECH PRODUCTION DISORDERS**

*Moderator: Lian Nijland (Nijmegen)*

- 08.30 **Frank Guenther** (Boston, MA, USA)  
Auditory, somatosensory, and motor interactions in speech acquisition and production
- 09.00 **Esther Janse** (Utrecht)  
Lexical competition effects in speech perception in aphasia
- 09.15 **Julia Klitsch** (Groningen)  
Aphasic spoken language perception and phonetic features
- 09.30 **Fred Hasselman** (Nijmegen)  
The auditory temporal processing deficit of dyslexia
- 09.45 **Lian Nijland** (Nijmegen)  
Auditory processing in children with speech/language output disorders
- 10.00 break

parallel sessions 46-49

*Session 46 (Patio)*

**OSCILLATORY BRAIN DYNAMICS DURING COGNITIVE PROCESSES: THEORY, AND APPLICATIONS RELATED TO LANGUAGE PROCESSING**

*Moderator: Marcel Bastiaansen (Nijmegen)*

- 10.30 **Olivier Bertrand** (Lyon, France)  
Local and large-scale oscillatory brain dynamics in perception and cognition
- 11.00 **Kees Stam** (Amsterdam)  
Spatial and temporal patterns of synchronous oscillations in EEG and MEG
- 11.15 **Marcel Bastiaansen** (Nijmegen)  
Do you see what I mean? Theta power increases are involved in the retrieval of lexical semantic representations
- 11.30 **Tineke Snijders** (Nijmegen)  
Oscillatory brain dynamics during sentence processing
- 11.45 **Jos van Berkum** (Amsterdam)  
Can EEG oscillations help us track referential processes in language comprehension?

*Session 47 (Doorwerth)*

**THE EFFECTS OF STRESS HORMONES ON MEMORY FUNCTIONING**

*Moderator: Bernet Elzinga (Leiden)*

- 10.30 **Oliver Wolf** (Düsseldorf, Germany)  
Effects of cortisol or stress on memory retrieval in humans
- 11.15 **Mattie Tops** (Groningen)  
Cortisol and social affective memory
- 11.30 **Anda van Stegeren** (Amsterdam)  
Noradrenaline mediates amygdala activation in men and women during encoding of emotional material
- 11.45 **Bernet Elzinga** (Leiden)  
Working memory in stress-related disorders, an fMRI study

*Session 48 (Branding)*

**NEW DEVELOPMENTS IN SCHIZOPHRENIA RESEARCH**

*Moderator: Jeffrey Glennon (Weesp)*

*(partially sponsored by Solvay Pharma BV, Weesp)*

- 10.30 **Trevor Robbins** (Cambridge, UK)  
Cognitive impairment in schizophrenia: what do we see and what do we model?
- 11.00 **Cathalijn Leenaars** (Nijmegen / Weesp)  
Altered thalamocortical transmission in animal models of psychosis
- 11.15 **Jamilja van der Meulen** (Amsterdam)  
Contribution of prefrontal cortical dopamine and serotonin systems to cognitive flexibility
- 11.30 **Koen Grootens** (Nijmegen)  
Cognitive dysfunction in patients with psychotic disorders

*Session 49 (Gelderland)*

**OBJECT CATEGORIES IN THE BRAIN**

*Moderator: Miranda van Turenout*

*(Nijmegen)*

- 10.30 **Alumit Ishai** (Zurich, Switzerland)  
Distributed representations of objects and faces in the human brain
- 11.00 **Marieke van der Linden** (Nijmegen)  
Plasticity in the cortical representation of object categories
- 11.15 **Romke Rouw** (Amsterdam)  
Congenital prosopagnosia
- 11.30 **Ingrid Nieuwenhuis** (Nijmegen)  
Consolidation of object-place associations in declarative memory
- 11.45 **Joyca Lacroix** (Maastricht)  
Predicting similarity ratings and recognition rates for natural stimuli with the NIM model

12.00 lunch (Paviljon)

**POSTER SESSION COGNITIVE AND BEHAVIORAL NEUROSCIENCE**

*(Branding and Bar entrance area)*

parallel sessions 50-53

*Session 50 (Patio)*

**COMBINING ANIMAL AND HUMAN GENETIC APPROACHES TO ATTENTION DISORDERS**

*Moderator: Eco de Geus (Amsterdam)*

- 14.30 **Eco de Geus** (Amsterdam)  
Introduction
- 14.45 **Maarten Loos** (Amsterdam)  
Attention and expression profiling in inbred mouse strains
- 15.00 **Tommy Pattij** (Amsterdam)  
Studying the pharmacology of impulsivity in rodents
- 15.15 **Antonius Mulder** (Amsterdam)  
Neuronal firing in the prefrontal cortex during learning and attention tasks in rodents
- 15.30 **Florencia Gosso** (Amsterdam)  
A family-based candidate gene approach to human attention
- 15.45 **Eske Derks** (Amsterdam)  
Genetic and environmental determinants of childhood attention problems

*Session 51 (Branding)*

**THE COGNITIVE NEUROSCIENCE OF RESPONSE INHIBITION**

*Moderator: Richard Ridderinkhof (Amsterdam)*

- 14.30 **Marcel Brass** (Leipzig, Germany)  
The inhibition of imitative response tendencies
- 15.00 **Evelijne Bekker** (Utrecht)  
Disentangling deficits in attention and inhibition
- 15.15 **Franc Donkers** (Tilburg)  
Inhibitory processes in an adapted go/nogo paradigm
- 15.30 **Jennifer Ramautar** (Amsterdam)  
The effects of probability in the stop-signal paradigm: an fMRI study
- 15.45 **Wery van den Wildenberg** (Marseille, France)  
What electrical and magnetic stimulation of the human brain tell us about the neural substrates of inhibitory control functions

*Session 52 (Gelderland)*

**MONOAMINES, COGNITION, AND SYMPTOMS**

*Moderator: Willem van der Does (Leiden)*

- 14.30 **Robert Rogers** (Oxford, UK)  
The neuromodulation of emotional processing in risky social and non-social choice
- 15.15 **Wendelien Merens** (Leiden)  
Recognition of emotions and attentional bias after low-dose and high-dose tryptophan depletion in depression
- 15.30 **Lisbeth Evers** (Maastricht)  
The effect of tryptophan depletion on brain activation related to cognitive flexibility
- 15.45 **Linda Booij** (Montreal, Canada / Leiden)  
Heart rate variability, serotonin function and impulsivity in remitted depressed patients with and without a history of suicidal ideation

*Session 53 (Doorwerth)*

**NUMBERS AND THE BRAIN**

*Moderator: Alette Lochy (Nijmegen)*

- 14.30 **Wim Fias** (Gent, Belgium)  
Representation of numbers in humans: a neural model
- 15.00 **Liane Kaufmann** (Innsbruck, Austria)  
Number-size congruity effects in children and adults: a fMRI study
- 15.15 **Anja Ischebeck** (Innsbruck, Austria)  
Complex arithmetic training: changes in cerebral networks observed with fMRI
- 15.30 **Bernie Caessens** (Gent, Belgium)  
A shared network for magnitude and order in the intra-parietal sulcus?
- 15.45 **Jan Willem Koten** (Maastricht)  
Genetic load in activations related to number processing: a twin study
- 16.00 break



16.30    **POSTERAWARD CEREMONY COGNITIVE  
AND BEHAVIORAL NEUROSCIENCE**

*Session 54 (Branding)*

**NVN SESSION ‘WHAT IT MEANS TO BE  
HUMAN’**

*(organized under auspices of the Dutch Society  
of Neuropsychology)*

*Moderators: Albert Postma and Roy Kessels  
(Utrecht)*

16.30    **Hanspeter Mallot** (Tubingen, Germany)

How to find your way in the world: the  
neurocognition of spatial navigation (30)

17.00    **Jaap Murre** (Amsterdam / Maastricht)

A lifetime of memories: acquisition, meaning, and  
loss (30)

17.30    **Niels Schiller** (Maastricht / Nijmegen)

To speak and to misspeak - why do we make so  
few errors during speaking? (30)

18.00    **CLOSURE**

1

**Van Heijnsbergen CCRJ**

The perception of emotion: electrophysiological evidence for rapid integration of facial and bodily expression

2

**Cuppen L**

Age-related effects on piecemeal processing of facial expressions in autism

3

**Righart R**

Context influences early perceptual analysis of faces. An electrophysiological study

4

**Tamietto M**

Automatic encoding of emotional body language in spatial neglect and visual extinction

5

**Nieuwland MS**

Testing the limits of the semantic illusion phenomenon: ERPs reveal temporary semantic change deafness in discourse comprehension

6

**Otten M**

The influence of message-based predictability and lexical association on the discourse-dependent N400 effect

7

**Willems RM**

When language meets action: the neural integration of gesture and speech

8

**Horemans I**

Do we monitor the verbal outfit [...uhm...] output of others?

9

**Ganushchak L**

Effects of auditory distractors on verbal self-monitoring

10

**Davidson DJ**

ERP and joint time-frequency responses to grammatical and semantic violations in Dutch-English bilinguals

11

**Christoffels IK**

The neural correlates of verbal feedback: an fMRI study employing overt speech

12

**Andics A**

fMRI evidence on phonological categories in the brain

13

**Wagensveld B**

Experience-dependent representations of phonological codes during speaking: an fMRI study

14

**Meijs CJC**

Learning strategies in healthy children aged 6-12 years on a pictorial verbal learning test and the influence of age and sex

15

**Polderman JC**

The heritability of working memory speed and working memory capacity in children

16

**Wassenberg R**

Development of time awareness in school-aged children and the influence of sex, verbal ability, and parental education

17

**Huizinga M**

Developmental change in switching from color to shape, and from stopping to going

18

**Smulders SFA**

The crossover between automatic facilitation and subjective expectancy and the effect of practice

19

**Van Ooyen A**

How attentional feedback guides learning of sensory representations

20

**Meeren HKM**

Dynamic activation in the visual network during early processing of biologically meaningful information: evidence from magnetoencephalography using realistic modeling

21

**Lindemann O**

Can action planning affect object perception?

22

**Janzen G**

Effects of time and practice on the neural representation of navigationally relevant objects

23

**Jongsma MLA**

Knowing more than we know: the dynamics of implicit learning revealed by single-trial ERP analyses

24

**Keus IM**

Psychophysiological evidence that the SNARC effect has its functional locus in a response selection stage

25

**Browne K**

The interaction between motor fatigue and cognitive task performance, an fMRI study

26

**Boersma G**

Force measurements during index finger abduction

27

**Lataster JJE**

Visual information shows task specific interactions with haptic performance in a delayed matching experiment

28

**Van de Laar MC**

The process of selective inhibitory control using the stop-signal task

29

**Post M**

Reduced cortical activity in bilateral contractions: an fMRI study

30

**Van der Veen W**

Cortical activity during unilateral and bilateral contractions in left-handed subjects

31

**Aarnoutse EJ**

The sternberg paradigm in primates: effects of set size, delay duration and automatization

32

**Croes E**

Reaction time responding in rats: validation of a speed accuracy tradeoff and information processing modeling

33

**Lansbergen MM**

ADHD and the Stroop interference effect: a meta-analysis

34

**Smit DJA**

Heritability of the full P3 in young adult and middle-aged subjects

35

**Slabu LM**

Imaging subcortical auditory activity in humans using fMRI

36

**Broersen LM**

Effects of dietary interventions in rat models of depression

37

**Van Wingen GA**

Acute effects of progesterone on emotion processing: an fMRI study

38

**Geerlings MI**

The joint effect of depressed mood and serum cortisol on memory functioning in a community-based sample of middle aged and older men

39

**Diergaarde L**

Propranolol impairs memory reconsolidation in an appetitive instrumental conditioning task

40

**Stiedl O**

Role of the dorsal hippocampus in emotional learning in mice - strain-specific differential utilization

41

**Lubbers ME**

MOR knockout mice in the morris water maze test: a memory or motivation deficit?

42

**MolN**

Startle potentiation in rapidly alternating conditions of high and low predictability of threat

43

**Knippenberg MJM**

Effects of anticipatory fear on the evoked potential from the rat amygdala

44

**Van den Hove DLA**

Prenatal restraint stress and behavior; the implications of a subsequent exposure to stress

45

**Tolmacheva EA**

Effects of acute stress on corticosterone and absence seizures in WAG/Rij rats

46

**Kleefstra A**

Reversal of phencyclidine stimulated basolateral amygdala dopamine and noradrenaline release by aripiprazole but not clozapine, ziprasidone and haloperidol involves dopamine D2 and serotonin 5-HT1A receptors

47

**Chan JSW**

Effects of 8-OH-DPAT and idazoxan on sexual behaviour in the endophenotypic, sluggish performing male Wistar rat

48

**Janssen MCW**

Differential role of nucleus accumbens core and shell in amphetamine-induced impulsivity in rats

49

**Gates AS**

Cholinergic receptor regulation of phencyclidine stimulated mediodorsal thalamic glutamate levels. influence of nicotinic receptors in the basolateral amygdala

50

**Böcker KBE**

Nicotine influences motivational but not psychomotor inhibition

51

**Schellekens AFA**

Apomorphine challenge in healthy volunteers, as measured by growth hormone response, changes on an ax-continuous performance task and acoustic startle response

52

**Roelofs K**

The effects of stress-induced cortisol on approach-avoidance action tendencies

53

**Van Luijtelaar G**

Is sleep disturbed by absence seizures?

54

**Wezenberg E**

Drug-induced sedation in healthy volunteers: do lorazepam, mirtazapine, olanzapine and haloperidol show different profiles on sedation measures?

55

**Wingen M**

Effects of depression and long-term antidepressant treatment on cognition and actual driving performance

56

**Schmitt JAJ**

A review of the role of serotonin in human cognition

57

**De Vries W**

A therapeutic role for methylphenidate in the treatment of alcohol addiction?

58

**Biemans B**

Do antipsychotics differentially affect social interaction behaviours in a rat model for the negative symptoms of schizophrenia?

59

**Bemelmans KJ**

Recall performance, plasma cortisol and plasma norepinephrine in Alzheimer's disease

60

**Ponsen MM**

Bimanual coordination dysfunction in early, untreated Parkinson's disease

61

**Van den Bergh FS**

Effects of social isolation on two types of impulsivity

62

**Bannink M**

Psychiatric disorders in IFN- $\alpha$  treated oncology patients

63

**Vossen HGM**

The influence of personality on cortical pain processing

64

**Bouwens SFM**

Ecological validity of neuropsychological tests: what do they say about functioning in daily living?

*Wednesday 1 June*

**Satellite HUPO BPP International Workshop  
on Mouse Models for Neurodegeneration  
(Heelsum)**

- 09.00 **Helmut E. Meyer** (Bochum, Germany)  
Welcome address & general update
- 09.10 **David Fischer** (Amsterdam)  
Proteomic changes in the cortex of a mouse  
model with a chronic impaired proteasome  
activity
- 09.40 **Eva-Maria Mandelkow** (Hamburg, Germany)  
Role of tau protein in Alzheimer  
neurodegeneration
- 10.10 break
- 10.30 **Per André**n (Uppsala, Sweden)  
Differential protein and neuropeptide  
expression in experimental Parkinson's disease
- 11.00 **Ka Wan Li** (Amsterdam)  
Application of quantitative proteomics in  
neurodegenerative diseases
- 11.30 **Martin Hrabé de Angelis** (Neuherberg,  
Germany)  
The European Mouse Mutant Archive (EMMA)
- 12.00 lunch
- 13.30 Discussion: **Select mouse models**
- 15.00 break
- 15.20 Discussion: **Select analysis strategy**

*Wednesday 1 June*

**Satellite Neuroinformatics in the Netherlands  
(Renkum)**

- 10.00 **Wytse J. Wadman** (Amsterdam)  
Opening
- Chair: Wytse Wadman
- 10.15 **Bart M. ter Haar Romeny** (Eindhoven)  
Biologically inspired multi-scale image analysis
- 11.00 **Ole Jensen** (Nijmegen)  
Measuring and modeling the human beta  
oscillations
- 11.45 **Rolf Kötter** (Düsseldorf, Germany)  
Current challenges in the reconstruction of brain  
connectivity
- 12.30 lunch
- Chair: Jaap van Pelt (Amsterdam)
- 13.30 **Jos Roerdink** (Groningen)  
Wavelet-based data analysis in functional MRI
- 14.15 **Klaus Linkenkaer-Hansen** (Amsterdam)  
Time series analysis: from hearts to brains
- 15.00 Closure

Thursday 2 June

**Satellite Netherlands Society for  
Neurophysiology (Heelsum)**

- 14.00 Part 1  
**Cognition, behavior and emotion in adults with  
brain dysfunctions**

**IHGB Ramakers** (Maastricht)

Presentation of prodromes of dementia in  
general practice

**C Cao** (Shanghai, China / Maastricht)

Cognitive impairments indicative of striatal  
dysfunction in transgenic Huntington disease  
rats

**J van den Stock** (Tilburg)

Impaired recognition of facial expressions,  
instrumental, and emotional body actions in  
Huntington disease

**MJCM Magnee** (Utrecht)

Facial EMG and affect processing in autism

- 16.00 Part 2  
**Cognition, behavior and emotion in healthy  
children and children with brain dysfunctions**

**MA Boeschoten** (Utrecht)

Face processing in children with pervasive  
developmental disorder (PDD): the roles of  
expertise and spatial frequency

**KNJA van Braeckel** (Groningen)

Pointing behaviour in very preterm born children

**M van Handel** (Utrecht)

Long-term effects of neonatal encephalopathy  
on motor abilities, cognition, behavior and brain  
anatomy

**M Sprong** (Utrecht)

Neurocognitive functioning in adolescents with  
PDD-NOS, subtype multiple complex  
developmental disorder

**TJC Polderman** (Amsterdam)

The heritability of working memory speed and  
working memory capacity in children