
THIRD DUTCH ENDO-NEURO-PSYCHO MEETING



NeuroFederatie



INMNI



MAGW

ALW

Golden Tulip Parkhotel 'Doorwerth', Doorwerth, Netherlands
1 - 4 J u n e 2 0 0 4

| | | | |
|---|----|---|-----|
| Welcome | 3 | Session 19 Peripheral nerve repair | 74 |
| Future meetings | 3 | Session 20 Parkinson's disease not by dopamine | 77 |
| Organization | 4 | Session 21 Cytoskeletal rearrangements synapse | 80 |
| Sponsors | 4 | Session 22 Genetic dissection of behavior | 82 |
| Information | 5 | Hersenstichting Lecture | 84 |
| Time table | 6 | Session 24 Neuronal trafficking | 85 |
| Plan lecture rooms | 8 | Session 25 Amyotrophic lateral sclerosis | 87 |
| Program Tuesday 1 June | | Session 26 Hearing and deafness | 90 |
| Marius Tausk Lecture | 9 | Session 27 Inflammatory responses | 93 |
| Sessions 2-4 | 9 | Neurofederation Lecture | 96 |
| Plenary session 5 | 9 | Session 29 Synaptic function and plasticity | 97 |
| Sessions 6-8 | 10 | Session 30 Adult neurogenesis and depression | 99 |
| Laqueur Lecture | 10 | Session 31 Amyloid- β and Alzheimer's disease | 102 |
| Poster schedule Endocrinology | 11 | Session 32 Neurotransmitters in behavior | 105 |
| Program Wednesday 2 June | | EKN Keynote Lecture | 108 |
| NVE teaching session | 12 | Session 34 Epileptogeneity of brain lesions | 109 |
| Sessions 11-14 | 12 | Session 35 Blood-brain barrier in neurology | 112 |
| Sessions 15-18 | 13 | Session 36 Memory and psychopharmacology | 115 |
| Sessions 19-22 | 14 | Session 37 Startle in neuropsychiatry | 118 |
| 'Hersenstichting' Lecture | 14 | Session 39 Neuronal circuitry and rTMS | 120 |
| Poster schedule Neuroscience 1 | 15 | Session 40 Neural correlates of performance | 123 |
| Program Thursday 3 June | | Session 41 Language processing | 126 |
| Sessions 24-27 | 18 | Session 42 Intervention in cognitive aging | 129 |
| Neurofederation Lecture | 19 | Session 43 Top-down visual attention control | 132 |
| Sessions 29-32 | 19 | Session 44 Monoamines, cognition and behavior | 135 |
| EKN Keynote Lecture | 19 | Session 45 Affective neuroscience | 138 |
| Sessions 34-37 | 20 | NVN Keynote Lecture | 140 |
| NVP Keynote Lecture | 20 | Session 47 Motor imagery | 141 |
| Poster schedule Neuroscience 2 | 21 | Session 48 Executive function deficits | 144 |
| Program Friday 4 June | | Session 49 Individual differences in cognition | 147 |
| Sessions 39-42 | 24 | Session 50 Serotonin and cognitive flexibility | 149 |
| Sessions 43-46 | 25 | Abstracts posters | |
| NVN Keynote Lecture | 25 | Posters Endocrinology | 155 |
| Sessions 47-50 | 26 | Posters Neuroscience 1 | 165 |
| Poster schedule Cognitive & Behavioral Neuroscience | 27 | Posters Neuroscience 2 | 195 |
| Program satellites | | Posters Cognitive & Behavioral Neuroscience | 235 |
| Neuropsychology (part I-III) Thursday 3 June | 29 | Abstracts satellite session | |
| Neuroinformatics Friday 4 June | 30 | Neuropsychology part I-III | 261 |
| Abstracts oral communications | | Neuroinformatics | 271 |
| Marius Tausk Lecture | 33 | Author index | 275 |
| Session 2 The ubiquitous insuline hormone | 34 | Call for proposals 2005 | 285 |
| Session 3 Steroid resistance | 37 | | |
| Session 4 Radiolabelled peptides | 39 | | |
| Session 5 Plenary lectures | 42 | | |
| Session 6 From MODY to hyperinsulinism | 43 | | |
| Session 7 Glucocorticoids and cognition | 46 | | |
| Session 8 Cardiovascular endocrinology | 49 | | |
| NVE Teaching Session | 52 | | |
| Session 11 ANS and metabolic syndrome | 54 | | |
| Session 12 Thyroid hormone and development | 57 | | |
| Session 13 Kinases and phosphatases | 60 | | |
| Session 14 Stress and psychopathology | 62 | | |
| Session 15 Pathological protein aggregation | 64 | | |
| Session 16 Intracellular signal transduction | 67 | | |
| Session 17 Laser microdissection and analysis | 70 | | |
| Session 18 Protein synthesis in the neurite | 72 | | |

DEAR PARTICIPANT

The organizers proudly welcome you at the 3rd Dutch Endo-Neuro-Psycho Meeting, the unique annual meeting for the Dutch endocrinologist and neuroscientist in the broadest sense. This Endo-Neuro-Psycho Meeting 2004 (ENP2004) is the 8th 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 ENP meeting 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 from Europe or the USA 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 ENP2004 is again held in Doorwerth in the conference hotel recently reorganized as 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 2004.

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 year's meeting. In addition, the 3rd Dutch Endo-Neuro-Psycho Meeting 2004 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,

Jeroen Schmitt (*chair Organizing committee*)
 Hanno Pijl (*chair Program committee Endocrinology*)
 Gerard Boer (*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/index_mother.htm. The direct link to the pages of the present 2003 meeting is <http://www.enpmeeting.nl>.

CONTACT ADDRESSES*About this meeting*

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About general information

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FUTURE MEETINGS AND CALL FOR PROPOSALS

The Dutch Endo-Neuro-Psycho Meeting will continue in 2005, and again in the first week of June. Preliminary dates for the next meeting are 7-10 June 2005. Suggestions for sessions of the 2005 meeting can already be submitted. Announce your suggestions as moderator via the special form available in this booklet (see page 285), or use the electronic version on <http://www.ENPmeeting.nl/enp/ENP2005>. All Dutch participants of Dutch Endo-Neuro-Psycho Meetings will receive an e-mail in September 2004 reminding them about the possibility to organize a session at the 4th Dutch Endo-Neuro-Psycho Meeting 2005 / 9th Dutch Endo-Neuro Meeting 2005. 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.

PARTICIPATING ORGANIZATIONS

Netherlands Federation of Neuroscience Organizations
(Neurofederatie) (www.neurofederatie.nl)
Netherlands Society for Endocrinology (NVE)
(www.nve.nl)
Netherlands Society for Psychonomics (NVP)
(nvp.nici.kun.nl)
Dutch Society for Neuropsychology (NVN)
(www.nvneuropsych.nl)
Dutch-Belgian Society for Experimental and Clinical
Neuroscience (EKN) (www.ekn.org)

ORGANIZING COMMITTEE

Gerard Boer (NIH, Amsterdam) *vice-president*
Sytze van Dam (OLVG, Amsterdam)
Michaela Diamant (VUmc, Amsterdam)
Ype Elgersma (ErasmusMC, Rotterdam)
Bart Ellenbroek (KUN, Nijmegen)
Pim French (ErasmusMC, Rotterdam) *committee
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Miranda van Turennot (KUN, Nijmegen)
Jenny Visser (ErasmusMC, Rotterdam)
Ineke van der Zee (KUN, Nijmegen)

Program committee Endocrinology

Sytze van Dam
Michaela Diamant
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Anton Scheurink
Jenny Visser

Program committee Neuroscience

Gerard Boer (*chair*)
Ype Elgersma
Bart Ellenbroek
Pim French
Freek van Muiswinkel
Wim Scheenen
Ineke van der Zee

*Program committee Cognitive & behavioral
neuroscience*

Huub Middelkoop
Albert Postma
Jeroen Schmitt (*chair*)
Miranda van Turennot

SPONSORS (in alphabetical order)

Organizations

ALS Centrum Nederland
www.als-centrum.nl
Dutch Brain Foundation (HsN)
www.hsn.nl
Dutch League against Epilepsy
Graduate School Neurosciences Amsterdam (ONWA)
www.onwa.med.vu.nl
Graduate School Animal Health (GSAH)
www.vet.uu.nl
Graduate School of Behavioral and Cognitive
Neurosciences (BCN)
www.bcn.rug.nl/bcn
Netherlands Institute for Brain Research
www.nih.knaw.nl
Netherlands Organization for Health Research and
Development (ZonMw)
www.zonmw.nl
NWO Foundation 'Aard- en Levenswetenschappen'
(NWO-ALW)
www.nwo.nl/alw
NWO Foundation 'Maatschappij en
Gedragwetenschappen' (NWO-MaGW)
www.nwo.nl/magw

Companies

Elsevier Science B.V. (Amsterdam)
www.elsevier.com
Novo Nordisk Farma B.V. (Alphen aan de Rijn)
www.novonordisk.nl
P.A.L.M. Microlaser Technologies AG (Bernried,
Germany)
www.palm-microlaser.com
Pfizer BV (Capelle a/d IJssel)
www.pfizer.nl

Secretariat registration

Brigitte Honing

Secretariat abstracts

Tini Eikelboom

Lay-out booklet

Gerard J. Boer, Jeroen Schmitt and Tini Eikelboom

CONFERENCE SITE

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

The following lecture rooms are available: Branding (plenary and poster sessions), Renkum, Doorwerth, Patio and Gelderland. 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 ENP2004 (contact the registration desk).

INSTRUCTIONS FOR ACCOMMODATION

After registration at the meeting desk, you can check-in at the hotel desk. 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.

Luggage can be stored at all times in Sub 1.

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. Room assistants are 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 one single laptop.

INSTRUCTIONS FOR POSTER PRESENTATIONS

Poster sessions are in the rear of lecture room Branding. 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 1 June (Endocrinology), the dinner of 2 June (Neuroscience 1), following the EKN Keynote Lecture on 3 June ~16.50 h (Neuroscience 2) and following the NVP Keynote Lecture on 4 June ~15.40 h (Cognitive and behavioral neuroscience).

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

TUESDAY 1 JUNE

| | | |
|-------|---|------------|
| 09.00 | Registration (till 13.00 h) | Entrance |
| 10.15 | Opening | Branding |
| 10.30 | Marius Tausk Lectures | Branding |
| 11.30 | Session 2 | Branding |
| | Session 3 | Doorwerth |
| | Session 4 | Gelderland |
| 13.00 | Posters Endocrinology (incl. lunch) | Branding |
| 15.00 | Plenary Lectures | Branding |
| 16.00 | Break | |
| 16.30 | Session 6 | Doorwerth |
| | Session 7 | Gelderland |
| | Session 8 | Branding |
| 18.00 | Registration desk (till 18.45 h) | Entrance |
| 18.00 | NVE Annual Member Meeting | Doorwerth |
| 19.00 | Dinner | Restaurant |
| | Poster Award Endocrinology | |
| | NVE Award Best preclinical research paper | |
| 21.15 | Organon Award Lecture | Branding |

WEDNESDAY 2 JUNE

| | | |
|-------|-------------------------------------|------------|
| 08.00 | Registration (till 13.00 h) | Entrance |
| 08.30 | Session 10 | Branding |
| 10.00 | Break | |
| 10.30 | Session 11 | Doorwerth |
| | Session 12 | Gelderland |
| | Session 13 | Patio |
| | Session 14 | Branding |
| 12.00 | Lunch | Paviljon |
| 13.30 | Session 15 | Doorwerth |
| | Session 16 | Patio |
| | Session 17 | Branding |
| | Session 18 | Gelderland |
| 15.00 | Poster Neuroscience 1 (incl. break) | Branding |
| 17.00 | Session 19 | Patio |
| | Session 20 | Gelderland |
| | Session 21 | Doorwerth |
| | Session 22 | Branding |
| 18.00 | Registration (till 18.45 h) | Entrance |
| 19.00 | Dinner | Restaurant |
| | Poster Award Neuroscience 1 | |
| 21.15 | 'Hersenstichting' Lecture | Branding |

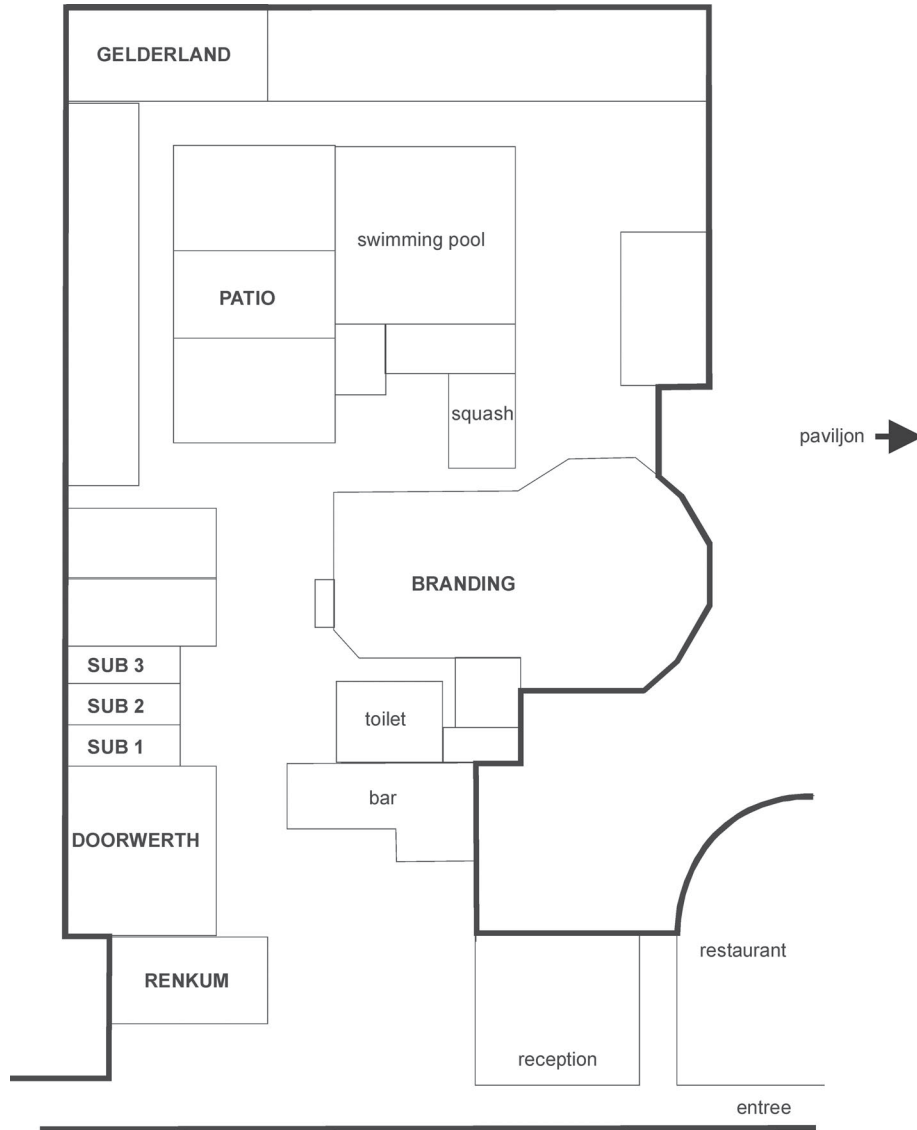
THURSDAY 3 JUNE

| | | |
|-------|-------------------------------------|------------|
| 08.00 | Registration (till 13.00 h) | Entrance |
| 08.30 | Session 24 | Branding |
| | Session 25 | Doorwerth |
| | Session 26 | Patio |
| | Session 27 | Gelderland |
| 09.30 | Satellite Neuropsychology I | Renkum |
| 10.00 | Poster Neuroscience 2 (incl. break) | Branding |
| 11.00 | Satellite Neuropsychology II | Renkum |
| 12.00 | Neurofederation Lecture | Branding |
| 12.45 | Lunch | Paviljon |
| 14.00 | Session 29 | Branding |
| | Session 30 | Doorwerth |
| | Session 31 | Gelderland |
| | Session 32 | Patio |
| | Satellite Neuropsychology III | Renkum |
| 15.30 | Break | |
| 16.00 | EKN Lecture | Branding |
| | Poster Award Neuroscience 2 | Branding |
| 17.00 | Session 34 | Doorwerth |
| | Session 35 | Branding |
| | Session 36 | Patio |
| | Session 37 | Gelderland |
| 18.00 | Registration (till 18.45) | Entrance |
| 19.00 | Dinner | Restaurant |
| 21.15 | NVP Keynote Lecture | Branding |

FRIDAY 4 JUNE

| | | |
|-------|--|------------|
| 08.00 | Registration (till 13.00 h) | Entrance |
| 08.30 | Session 39 | Branding |
| | Session 40 | Doorwerth |
| | Session 41 | Gelderland |
| | Session 42 | Patio |
| 09.30 | Satellite Neuroinformatics | Renkum |
| 10.00 | Posters Cognition & Behavior (incl. break) | Branding |
| 12.00 | Lunch | Restaurant |
| 13.00 | Session 43 | Branding |
| | Session 44 | Doorwerth |
| | Session 45 | Gelderland |
| 14.30 | Break | |
| 15.00 | NVN Keynote Lecture | Branding |
| | Poster Award Cogn. & Behavior | |
| 15.45 | Session 47 | Doorwerth |
| | Session 48 | Branding |
| | Session 49 | Gelderland |
| | Session 50 | Patio |
| 17.15 | Closure | Branding |

PROGRAM SCHEDULE



LOCATION OF LECTURE ROOMS IN GOLDEN TULIP PARKHOTEL 'DOORWERTH'

- 09.00 Registration (till 13.00)
Mounting posters Endocrinology session
- 10.15 **Opening (Branding)**
Hanno Pijl (Leiden)
- Session 1 (Branding)*
MARIUS TAUSK LECTURE
Chairperson: Ron de Kloet (Leiden)
- 10.30 **Steven Lamberts** (Rotterdam)
Genetic endocrinology of aging
- Parallel sessions 2-5
- Session 2 (Branding)*
THE UBIQUITOUS INSULIN HORMONE
Chairpersons: Michaela Diamant (Amsterdam) and Margriet Ouwens (Leiden)
- 11.30 **Hannele Yki-Järvinen** (Helsinki, Finland)
Insulin resistance: beyond glucose uptake
- 12.00 **Christa Boer** (Amsterdam)
High-fat diet induced cardiac dysfunction is associated with altered myocardial insulin signaling
- 12.15 **Elena Korshennikova** (Leiden)
Insulin resistance and adipose tissue
- 12.30 **Marco Mensink** (Maastricht)
Skeletal muscle insulin resistance
- 12.45 **Aldo Grefhorst** (Groningen)
The role of nuclear hormone receptors in hepatic insulin resistance
- Session 3 (Doorwerth)*
STEROID RESISTANCE
Chairperson: Erica van den Akker (Rotterdam)
- 11.30 **Guy Haegeman** (Gent, Belgium)
Molecular mechanisms of gene repression by the glucocorticoid receptor
- 12.15 **Richard Felders** (Rotterdam)
Expression of glucocorticoid receptor splice variants in peripheral blood mononuclear cells in hyper- and hypocortisolism
- 12.30 **Pauline Smit** (Rotterdam)
Differential effects of synthetic glucocorticoids on gene expression levels of IL-2 and glucocorticoid-induced leucine zipper (GILZ) in peripheral blood mononuclear cells
- 12.45 **Harry Vermeer** (Utrecht)
A comparison of in vitro bioassays to determine cellular glucocorticoid sensitivity
- Session 4 (Gelderland)*
- RADIOLABELLED PEPTIDES FOR IMAGING AND THERAPY OF NEUROENDOCRINE TUMORS**
Chairperson: Marion de Jong (Rotterdam)
- 11.30 **Eric Krenning** (Rotterdam)
Very encouraging results with radioactive peptides for cancer imaging and therapy
- 12.00 **Jaap Teunissen** (Rotterdam)
Quality of life in patients with gastro-entero-pancreatic tumors treated with [¹⁷⁷Lu-DOTA⁰,Tyr³]octreotate
- 12.15 **Astrid Capello** (Rotterdam)
Radionuclide therapy and apoptosis using a hybrid peptide
- 12.30 **Susanne Verwijnen** (Rotterdam)
Gene therapy using a somatostatin receptor for malignant brain tumors
- 12.45 **Marion de Jong** (Rotterdam)
Radionuclide therapy using radiolabelled peptide analogues: future perspectives
- 13.00 **POSTER SESSION ENDOCRINOLOGY** including Lunch (*Branding*)
- PLENARY SESSION 5 (Branding)**
Chairperson: Sytze van Dam (Amsterdam)
- 15.00 **Hans Reul** (Bristol, UK)
Glucocorticoid action in the brain: from modified histones to modified behaviour (*sponsored by Elsevier BV, Amsterdam*)
- 15.30 **Felipe Casanueva** (Santiago de Compostela, Spain)
Ghrelin: regulatory, hormonal and metabolic aspects (*sponsored by Pfizer BV, Capelle a/d IJssel*)
- 16.00 Break

Parallel sessions 6-8

Session 6 (Doorwerth)

FROM MODY TO HYPERINSULINISM

Chairperson: Carrie Ris-Stalpers (Amsterdam)

- 16.30 **Khalid Hussain** (Londen, UK)
Congenital hyperinsulinism
- 17.00 **Ton Maassen** (Leiden)
MODY and mitochondrial diabetes: diseases with a genetic defect leading to beta cell dysfunction
- 17.15 **Paul van Trotsenburg** (Amsterdam)
Congenital hyperinsulinism: a curable case in an infant
- 17.30 **Eelco de Koning** (Leiden)
Clinical aspects of MODY
- 17.45 **Kees Noordam** (Nijmegen)
Congenital hyperinsulinism: activating glucokinase mutations

Session 7 (Gelderland)

GLUCOCORTICOIDS, COGNITION AND BEHAVIOR

Chairpersons: Annet Kingma and Bauke Buwalda (Groningen)

- 16.30 **Mechiel Korte** (Wageningen)
The Darwinian concept of stress
- 17.00 **Rieneke van Drommelen** (Groningen/Veldhoven)
Dexamethasone induced behavioral changes in children treated for acute lymphoblastic leukemia
- 17.15 **Nathalie Jansen** (Groningen/Utrecht)
Cognitive effects of dexamethasone in children treated for acute lymphoblastic leukemia
- 17.30 **Marjolein Gerrits** (Groningen)
The effects of cyclic estradiol replacement in ovariectomized rats on the response to chronic stress
- 17.45 **Patrick Kamphuis** (Utrecht)
Long lasting effects of neonatal dexamethasone treatment on spatial learning and hippocampal plasticity, involvement of the NMDA receptor complex

Session 8 (Branding)

CARDIOVASCULAR ENDOCRINOLOGY

Chairperson: Marcel Twickler (Utrecht)

(sponsored by Novo Nordisk Farma B.V., Alphen aan de Rijn)

- 16.30 **Eric Bruckert** (Paris, France)
Hypothyroidism and new risk factors in cardiovascular disease: what is the link?
- 17.00 **Pieter Doevendans** (Utrecht)
Growth factors and cardiac remodelling
- 17.15 **Angela Maas** (Zwolle)
Estrogens and the heart: doubts and benefits
- 17.30 **Robin Dullaart** (Groningen)
Endocrinological diseases and related expression of the HDL phenotype
- 17.45 **Martin den Heijer** (Nijmegen)
Hyperhomocysteinemia as a risk factor for venous thrombosis
- 18.00 Registration (till 18.45)
- 18.00 Annual Member Meeting NVE (*Doorwerth*)

- 19.00 Dinner
including **Poster Award Ceremony Endocrinology**
and
NVE Award Ceremony Best preclinical research paper

Session 9 (Branding)

LAQUEUR LECTURE

Chairperson: Hans Romijn (Leiden)

- 21.00 **Henk Goos** (Utrecht)
What we learned from fish

1

Van der Laan S

Function of coregulators in the glucocorticoid receptor mediated regulation of the HPA axis activity: colocalisation studies

2

Enthoven L

Influence of repeated maternal deprivations on stress system development in CD1 mice

3

Dalm S

Endocrine and behavioural effects of acute and repeated oral administration of the antigluocorticoid RU486 in male C57BL/6J mice

4

Kamphuis W

Is Angiotensin 1-7 an agonist for the AT2 receptor?

5

Prins T

Postnatal growth of the intrauterine growth retarded rat

6

Revsin Y

Hippocampal abnormalities accompanying type 1 experimental diabetes: increased neuronal activation, astrocytic reactivity, oxidative stress and decreased neurogenesis

7

Heijboer AC

Centrally administered MTII in mice ameliorates peripheral insulin sensitivity independent of food intake and body weight

8

Wielinga PY

Hydroxycitrate (HCA) and intestinal glucose absorption

9

Morens C

Dietary macronutrient composition and central leptin pathways

10

Piersma D

Luteinizing Hormone signaling and LH receptor biosynthesis: polymorphisms and breast cancer

11

Kok P

Circadian ACTH release is enhanced while cortisol secretion is normal in obese premenopausal women: reversal by Acipimox

12

Kok P

Prolactin release is enhanced in proportion to excess visceral fat in obese women

13

Van Elburg AA

Psychoneuroendocrinological aspects of anorexia nervosa in adolescents during recovery

14

Assies J

Elevated salivary dehydroepiandrosterone-sulfate (DHEA-S) but normal cortisol levels in medicated depressed patients: preliminary findings

08.00 Registration (till 13.00)
Posters Neuroscience 1 session to be mounted

Session 10 (Branding)

NVE TEACHING SESSION FROM BENCH TO BEDSIDE: MOLECULAR BIOLOGY AND CLINICAL ASPECTS OF THE PITUITARY ADRENAL ENSEMBLE

Chairperson: Hans Romijn (Leiden)

08.30 **Ron de Kloet** (Leiden)
Fundamental aspects of hypothalamic-pituitary-adrenal regulation

09.00 **Sonia Lupien** (Lasalle, Canada)
The effects of glucocorticoids on cognitive function in human

09.30 **Ad Hermus** (Nijmegen)
Disorders of the pituitary-adrenal axis

10.00 Break

Parallel sessions 11-14

Session 11 (Doorwerth)

THE AUTONOMIC NERVOUS SYSTEM LINKS THE SYMPTOMS OF THE METABOLIC SYNDROME

Chairpersons: Felix Kreier and Ruud Buijs (Amsterdam)

10.30 **Anthony Cincotta** (Tiverton, MA, USA)
Monoaminergic circuits in the control of fuel metabolism

11.00 **Marco van den Top** (Coventry, UK)
Orexigen-sensitive INPY/AgRP pacemaker neurones in the hypothalamic arcuate nucleus

11.15 **Lucien Harthoorn** (Amsterdam)
Multi-transcriptional profiling of hypothalamic neurons: different functionalities in the control of energy homeostasis

11.30 **Anita van den Hoek** (Leiden)
PYY₃₋₃₆ increases insulin sensitivity of glucose disposal in mice on a high fat diet

11.45 **Ajda Yilmaz** (Amsterdam)
Autonomic control of the skeletal muscle by the central clock

Session 12 (Gelderland)

THYROID HORMONE AND BRAIN DEVELOPMENT

Chairperson: Theo Visser (Rotterdam)

10.30 **Douglas Forrest** (New York, NY, USA)
Thyroid hormone signaling in neurodevelopment: critical roles in auditory and visual sensory systems

11.00 **Edith Friesema** (Rotterdam)
Role of transporters in thyroid hormone trafficking in the developing brain

11.15 **Monique Kester** (Rotterdam)
Regulation of local thyroid hormone bioactivity in the developing brain by deiodinases

11.30 **Anneke Alkemade** (Amsterdam)
Hypothalamic regulation of the human hypothalamus-pituitary-thyroid axis

11.45 **Aleid van Wassenae** (Amsterdam)
The importance of thyroid hormone for brain development

Session 13 (Patio)

KINASES AND PHOSPHATASES

Moderator: Eddy van der Zee (Groningen)

10.30 **Eric Klann** (Houston, Texas, USA)
Signaling mechanisms underlying hippocampal long-term depression

11.15 **Marloes Kolkman** (Nijmegen)
The influence of protein tyrosine phosphatases on mouse behaviour

11.30 **Pim French** (Rotterdam)
Differential amplification of intron containing transcripts reveal LTP-associated upregulation of specific Pde10A phosphodiesterase splice variants

11.45 **Robbert Havekes** (Groningen)
Hippocampal calcineurin activity levels are altered during the formation and modification of memory

Session 14 (Branding)

STRESS AND PSYCHOPATHOLOGY

Chairperson: Liselotte van der Kam (Nijmegen)

10.30 **Nick Goeders** (Shreveport, LA, USA)
The impact of stress on addictive behavior

11.00 **Liselotte van der Kam** (Nijmegen)
The impact of stress on cocaine self-administration

11.15 **Melly Oitzl** (Leiden)
Stress and glucocorticoids: companions in health and disease

11.45 **Jaap Koolhaas** (Groningen)
Individuals, stress and reactivity: causes and consequences

12.00 Lunch (*Paviljon*)

Parallel sessions 15-18

Session 15 (Doorwerth)

**PATHOLOGICAL PROTEIN
AGGREGATION DURING AGING**

*Chairpersons: Jo Höppener (Utrecht) and
Fred van Leeuwen (Amsterdam)*

- 13.30 **Ron Kopito** (Stanford, USA)
Microtubule-dependent autophagy is required
for cellular clearance of aggregated Huntingtin
- 14.00 **Remko de Pril** (Amsterdam)
Aggregate formation and cell death in
polyglutamine diseases
- 14.15 **Maarten Engel** (Utrecht)
The role of islet amyloid polypeptide (IAPP/
amylin) - membrane interactions in type 2
diabetes mellitus
- 14.30 **David Fischer** (Amsterdam)
Mouse models for proteasome insufficiency:
tools in the study of neurodegenerative disease
- 14.45 **Barend Bouma** (Utrecht)
Activation of the fibrinolytic system by amyloid
cross- β structure

Session 16 (Patio)

**INTRACELLULAR SIGNAL
TRANSDUCTION IN NEUROENDOCRINE
SYSTEMS**

*Chairpersons: Wim Scheenen and Bruce Jenks
(Nijmegen)*

- 13.30 **Martin Muschol** (Pennsylvania, USA)
A tale of two hormones: stimulus-secretion
coupling in magnocellular hypothalamic
neurons
- 14.00 **Jur Koksma** (Amsterdam)
Oxytocin mediated GABA synapse plasticity in
the rat supraoptic nucleus
- 14.15 **Hongyan Zhang** (Nijmegen)
Regulation of high voltage-operated Ca^{2+}
channels by G_i -protein coupled receptors
- 14.30 **Maarten van den Hurk** (Nijmegen)
Signal transduction by the Ca^{2+} -sensing receptor
in *Xenopus* melanotropes
- 14.45 **Jan Bogerd** (Utrecht)
How to make an FSH receptor into an LH
receptor? ('Just blink twice')

Session 17 (Branding)

**LASER MICRODISSECTION AND
EXPRESSION ANALYSIS**

*Moderators Elly Hol (Amsterdam) and
Eric Boddeke (Groningen)*

*(sponsored by P.A.L.M. Microlaser
Technologies, Bernried, Germany)*

- 13.30 **Stephen Ginsberg** (New York, NY, USA)
Single cell analysis and RNA amplification in
neurodegenerative diseases
- 14.00 **Dimitra Kontostavlaki** (Amsterdam)
Real-time Q-PCR on tyrosine hydroxylase
immunocytochemically identified neurons of
the human supraoptic nucleus isolated from
cryostat sections using laser microdissection:
co-expression with GTP cyclohydrolase I
- 14.15 **Freddy de Bree** (Amsterdam)
Laser microdissection of the olfactory system
- 14.30 **Karin Schütze** (Bernried, Germany)
Non-contact laser catapulting and high-
throughput specimen capture opens new
horizons in functional genomics and proteomics

Session 18 (Gelderland)

PROTEIN SYNTHESIS IN THE NEURITE

Chairperson: Jan van Minnen (Amsterdam)

- 13.30 **Jeffery Twiss** (Wilmington, DE, USA)
Regulation of local protein synthesis in
regenerating axons
- 14.15 **Carolina Jost** (Leiden)
Towards visualizing mRNA transport
- 14.30 **Ronald van Kesteren** (Amsterdam)
Regulation of actin dynamics by local protein
synthesis in neuronal growth cones
- 14.45 **Jan van Minnen** (Amsterdam)
Schwann cells transfer ribosomes and mRNA to
axons
- 15.00 **POSTER SESSION NEUROSCIENCE 1**
(Branding)

Parallel sessions 19-22

Session 19 (Patio)

NEW AVENUES FOR PERIPHERAL NERVE REPAIR

Moderator: Gerard Boer (Amsterdam)

- 17.00 **Martijn Malessy** (Leiden)
Current clinical problems in peripheral nerve and spinal root repair
- 17.30 **Marcel Meek** (Groningen)
Biodegradable p(DLLA-, -CL) nerve guides for human nerve repair, should or shouldn't we use them?
- 17.45 **Carmen Vleggeert-Lankamp** (Leiden)
Nerve fibres regenerating through a trimethylenecarbonate/-caprolactone nerve guide are electrophysiologically comparable to an autograft
- 18.00 **William Hendriks** (Amsterdam)
In vivo transduction of the injured rat peripheral nerve by lentiviral vectors as a putative strategy to promote nerve regeneration
- 18.15 **Remy Wiertz** (Enschede)
Towards better neural prostheses: improvement of adhesion of host cells cultured on 'neurochips'

Session 20 (Gelderland)

PARKINSON'S DISEASE: NOT BY DOPAMINE ALONE

Chairpersons: Henk Berendse and Benjamin Drukarch (Amsterdam)

- 17.00 **Thomas Hummel** (Dresden, Germany)
What comes first in Parkinson's disease symptomatology? Olfactory dysfunction as an early clinical sign
- 17.30 **Bart Scholtissen** (Maastricht)
Depression as an early sign of Parkinson's disease: involvement of serotonergic mechanisms
- 17.45 **Kelly Del Tredici** (Frankfurt am Main, Germany)
Where does Parkinson's disease pathology begin in the brain?
- 18.00 **Piet Hoogland** (Amsterdam)
Hyposmia and the paradox of dopamine in Parkinson's disease
- 18.15 **Gerda Andringa** (Amsterdam)
A unifying mechanism underlying dopaminergic and non-dopaminergic degeneration in Parkinson's disease?

Session 21 (Doorwerth)

CYTOSKELETAL REARRANGEMENTS UNDERLYING CHANGES IN SYNAPTIC EFFICACY

Chairpersons: Pim French (Rotterdam)

- 17.00 **Andrew Matus** (Basel, Switzerland)
Regulation of dendritic spine plasticity by actin binding proteins
- 17.45 **Marja Miedema** (Rotterdam)
Visualization of microtubule growth in cultured neurons via the use of EB3
- 18.00 **Ger Ramakers** (Amsterdam)
Of mice and men: linking cytoskeletal dynamics and spines to cognition
- 18.15 **Simone Houtman** (Rotterdam)
Neuronal plasticity regulated by the cytoskeletal-associated proteins Eml1, Eml4 and synaptopodin

Session 22 (Branding)

THE GENETIC DISSECTION OF COMPLEX BEHAVIORAL TRAITS

Moderator: Martien Kas (Utrecht)

- 17.00 **Lindsay Burrage** (Cleveland, USA)
Genetic dissection of complex genetic traits with chromosome substitution strains of mice
- 17.45 **Leonie de Visser** (Utrecht)
Behavioural phenotyping in the mouse: the home cage as test area
- 18.00 **Femke Streijger** (Nijmegen)
Double mutant analysis in the mouse
- 18.15 **Mariska van der Plas** (Leiden)
A *Drosophila* model for Duchenne muscular dystrophy
- 18.00 Registration (till 18.45)
- 19.00 Dinner including **Poster Award Ceremony Neuroscience 1**

Session 23 (Branding)

HERSENSTICHTING LECTURE

Chairperson: Ineke van der Zee (Nijmegen)

- 21.00 **Dick Swaab** (Amsterdam)
Sexual differentiation of the human brain

- 1
Dekkers M
Molecular imaging of gustatory signalling in *C. elegans*
- 2
Hukema R
Antagonistic sensory cues generate gustatory plasticity in *Caenorhabditis elegans*
- 3
Zareno JH
A *Caenorhabditis elegans* model for ubiquitin-proteasome activity
- 4
Lans H
A G protein signaling network co-operates with Ca²⁺/MAPK signaling to regulate gene expression in the olfactory neurons of *C. elegans*
- 5
Burghoorn J
G-protein signaling in sensory neuron development
- 6
Olivier JDA
Phenotyping ENU-mutagenized rats
- 7
Homberg JR
The making of 'knock-out' rats by target-selected mutagenesis
- 8
Van Bogaert MJV
Mouse strain differences in sensitivity towards anxiolytic drugs, a telemetric study
- 9
Qin Y
Glucocorticoid receptor regulates gene expression of voltage gated calcium channels in rat hippocampal CA1 neurons
- 10
De Jong IEM
Genetic background and glucocorticoid hormones contribute to individual differences in sensitivity to cocaine
- 11
Van Tijn P
UBB+1 transgenic mice: a novel in vivo model for proteasome research?
- 12
Cryns K
Expression analysis of genes involved in neurotrophic and inositol signaling pathways in the Impa2 KO mouse
- 13
Chan JSW
Vogel conflict test in rats - a behavioural assay development
- 14
Calle M
Distribution and pituitary neurohormone nature of urocortin in *Xenopus laevis*
- 15
Assies J
Fatty acids and homocysteine levels in patients with recurrent depression: an explorative pilot study
- 16
Lok A
The 'weight' of recurrent depression: a comparison of MDD-R patients and the Dutch population
- 17
Bao AM
Colocalization of corticotropin-releasing hormone and estrogen receptor- α in the human paraventricular nucleus in depression
- 18
Taymans J-M
Robust coupling of corticotropin-releasing factor type 1 (CRF₁) and 2a (CRF_{2(a)}) receptors to G_s and G_q proteins
- 19
Korosi A
Distribution of the CRHR1 and CRHR2 mRNAs in the brain of transgenic mice overexpressing CRH
- 20
Gerrits M
The effects of cyclic estradiol replacement in ovariectomized rats on the response to chronic stress
- 21
Champagne DL
Effects of prenatal stress and maternal care on genetic patterning of the hippocampus in neonate rats
- 22
Datson NA
Expression profiling in laser microdissected hippocampal subregions reveals large differences in expression between CA3 and DG subregions
- 23
Schlager M
Synaptopodin, an activity-dependent, actin-associated protein
- 24
Kampert E
Development of neuronal network connectivity in cultured cerebral cortex neurons
- 25
Van Diepen MT
Role of the RING-finger protein BERP in neurite outgrowth of regenerating molluscan neurons and rat PC12 cells
- 26
De Groot DM
The neuroendocrine serine protease inhibitor neuroserpin and synaptic plasticity in the pituitary of *Xenopus laevis*
- 27
Wang LC
Morphological evidences of brain-derived neurotrophic factor (BDNF) as a neurohormone

- 28
Corstens GJH
 Dynamic analysis of AKAP dependent cAMP signaling in melanotrope cells of *Xenopus laevis*
- 29
Verheijen MHG
 Local regulation of lipid metabolism in peripheral nerves
- 30
Vogelaar CF
 Intra-axonal mRNA expression in the adult sciatic nerve *in vivo*
- 31
Janssen LTF
 Gene expression analysis in motor neurons in a mouse model for ALS using laser microdissection and quantitative PCR
- 32
Van der Zijden J
 Mapping cortical projections after stroke in rat brain with *in vivo* manganese-enhanced MRI
- 33
Vallès A
 Identification of potential drug targets for traumatic brain injury: an initial study
- 34
Thelen MHM
 Laboratory approach to the diagnosis of narcolepsy
- 35
Fronczek R
 Immunocytochemical staining of hypothalamic hypocretin neurons in Prader-Willi Patients
- 36
Kleefstra A
 Nicotinic receptor-induced hypothermia: a pharmacological evaluation
- 37
Stoffers D
 Early stage [¹²³I]β-CIT SPECT and long-term clinical follow-up in patients with an initial clinical diagnosis of Parkinson's disease
- 38
Verheij MMM
 SKF83959, a unique anti-Parkinson agent in animal models, stimulates dopamine D1 receptors that are coupled to phospholipase C, in denervated striatum and intact nucleus accumbens of freely moving rats
- 39
Ponsen MM
 Detection of preclinical Parkinson's disease: the olfactory approach
- 40
Van Dongen YC
 Axon collaterals of medium-sized spiny output neurons establish specific subregional and intercompartmental connections within the nucleus accumbens of rats
- 41
Koya E
 Drug seeking specific molecular responses in mesocorticolimbic brain areas
- 42
Scheper W
 Rab6 in Alzheimer's disease: a response to misfolded proteins?
- 43
Hoozemans JJ
 Cell cycle changes and the unfolded protein response in Alzheimer's disease: opposite effects?
- 44
Perlstein B
 Nuclear cap binding protein CBP20 accumulates in neurofibrillary tangles in temporal cortex of Alzheimer's disease (AD) patients
- 45
Van Galen EJM
 The role of Rho-GTPases in the neuropathology of mental retardation
- 46
Nair SM
 Nonsense-mediated mRNA decay (NMD), a cellular quality control mechanism, may be altered in Alzheimer's disease (AD)
- 47
Wu YH
 Circadian clock genes oscillate in the human pineal gland and are desynchronized in Alzheimer's disease
- 48
De Bree FM
 Gene expression profiling of the olfactory ensheathing glia cell
- 49
Roelofs RF
 A subpopulation of astrocytes in the neurogenic regions of the adult human brain express GFAP-δ
- 50
Counotte DS
 Lentiviral vector EAAT2 infected human astrocyte cultures show an increased glutamate uptake
- 51
Mac Gillavry HD
 Schwann cell-to-axon transfer of ribosomes
- 52
Derks S
 CNS-targeted, microglial cell-mediated viral transfer of interleukin-10 during experimental Multiple Sclerosis
- 53
Oude Engberink RD
 Ex vivo labeling of primary human monocytes with ultra small particles of iron oxide using different transfection agents (methodology)
- 54
Dubelaar EJG
 Increased activity of Nucleus Basalis of Meynert neurons in mild cognitive impairment

55

Aendekerk B

Bilateral subthalamic stimulation dissociates motor and cognitive performance

56

Van Gaalen MM

Dopaminergic involvement in cognitive impulsivity

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

Parallel sessions 24-27

Session 24 (Branding)

NEURONAL TRAFFICKING: THE LONG AND WINDING ROAD THAT LEADS TO THE SYNAPSE

Chairpersons: Huib Mansvelder (Amsterdam) and Gerard Borst (Rotterdam)

- 08.30 **Ben Oostra** (Rotterdam)
Fragile X syndrome and neuronal deficits
- 09.00 **Niels Galjart** (Rotterdam)
CLIPping microtubules to vesicle transport
- 09.15 **Ruud Toonen** (Amsterdam)
Analysis of secretory granule movement in wildtype and munc18-1 null mutant chromaffin cells with evanescent wave microscopy
- 09.30 **Eckart Gundelfinger** (Magdeburg, Germany)
Role of Piccolo and Bassoon in assembling and organizing the active zone of neurotransmitter release

Session 25 (Doorwerth)

AMYOTROPHIC LATERAL SCLEROSIS

Chairpersons: Dick Jaarsma (Rotterdam) and Freek van Muiswinkel (Utrecht) (sponsored by 'ALS Centrum Nederland')

- 08.30 **Georg Haase** (Marseille, France)
Mechanisms of neuronal degeneration in ALS
- 09.00 **Eva Teuling** (Rotterdam)
Lessons from a decade of SOD1-ALS mice: a neuropathological perspective
- 09.15 **Joost Verhaagen** (Amsterdam)
Induction of Sema3A expression in an ALS mouse model
- 09.30 **Ludo van den Bosch** (Leuven, Belgium)
Excitotoxicity and inflammation in ALS
- 09.45 **Liselijn Wisman** (Utrecht)
Towards gene therapy in amyotrophic lateral sclerosis

Session 26 (Patio)

HEARING AND DEAFNESS

Chairperson: Hikke van Doorninck (Rotterdam)

- 08.30 **Hikke van Doorninck** (Rotterdam)
Gata3 knockout mouse is a model for the human HDR deafness syndrome
- 09.00 **Theo Peters** (Nijmegen)
Hearing loss caused by transport disorders in the inner ear
- 09.15 **Sjaak Klis** (Utrecht)
Cisplatin-induced hearing loss: mechanisms, recovery and protection
- 09.30 **Sietse van Netten** (Groningen)
Transduction channels in cochlear hair cells
- 09.45 **Hannie Kremer** (Nijmegen)
A mutation in the gamma actin 1 (ACTG1) gene causes autosomal dominant hearing loss (DFNA20/26)

Session 27 (Gelderland)

INFLAMMATORY RESPONSES

Chairpersons: Cobi Heijnen and Frank van Bel (Utrecht)

- 08.30 **Stuart Allan** (Manchester, UK)
Inflammatory processes in brain injury
- 09.00 **Annemieke Kavelaars** (Utrecht)
Neonatal hypoxic-ischemic brain damage: a role for the GRK and β -arrestin machinery
- 09.15 **Erik Boddeke** (Groningen)
Involvement of chemokines in CNS degenerative diseases
- 09.30 **Annemarie van Dam** (Amsterdam)
Pro- and anti-inflammatory mediators in neuroinflammation: focus on IL-1b and IL-10
- 09.45 **Cacha Peeters** (Utrecht)
LPS administration and oxygen-glucose deprivation synergistically induce neuronal damage in hippocampal slices

- 09.30 *Satellite Neuropsychology (part 1) (Renkum)*
COGNITIVE, EMOTIONAL, AND BEHAVIORAL CHANGES IN ELDERLY
(organized by the Dutch Society for Neuropsychology) See page 29

- 10.00 **POSTER SESSION NEUROSCIENCE 2**
(Branding)

- 11.00 *Satellite Neuropsychology (part 2) (Renkum)*
RISK FACTORS, COURSE, AND INTERVENTION OF COGNITIVE, EMOTIONAL AND BEHAVIOURAL CHANGES IN PATIENTS WITH ACQUIRED BRAIN LESIONS
(organized by the Dutch Society for Neuropsychology) See page 29

- Session 28 (Branding)*
NEUROFEDERATION LECTURE
Chairperson: Arjen Brussaard (Amsterdam)
- 12.00 **Jeff Lichtman** (St. Louis, MO, USA)
 Monitoring naturally occurring synapse elimination in fluorescent neonatal mice
- 12.45 Lunch (Paviljon)
- Parallel sessions 29-32
- Session 29 (Branding)*
SYNAPTIC FUNCTION AND PLASTICITY
Chairpersons: Ype Elgersma and Christian Hansel (Rotterdam)
- 14.00 **Hey-Kyoung Lee** (College Park, MD, USA)
 Regulation of AMPA receptors in synaptic plasticity
- 14.30 **Alfredo Kirkwood** (Baltimore, MD, USA)
 Control of synaptic plasticity in visual cortex
- 15.00 **Michel Brecht** (Rotterdam)
 Deciphering cortical codes for movement by intracellular stimulation
- 15.15 **Christian Hansel** (Rotterdam)
 Cerebellar long-term potentiation: a synaptic candidate mechanism for forgetting
- Session 30 (Doorwerth)*
ADULT NEUROGENESIS AND DEPRESSION
Chairpersons: Paul Lucassen and Marian Joëls (Amsterdam)
- 14.00 **Paul Lucassen** (Amsterdam)
 Structural plasticity changes in major depression
- 14.15 **Boldizsar Czeh** (Göttingen, Germany)
 Stress-induced structural alterations in the hippocampus: reversal by antidepressants?
- 14.45 **Alexa Veenema** (Regensburg, Germany)
 Changes in adult proliferation in low and high aggressive mice in relation to inborn alterations in HPA axis activity
- 15.00 **Thomas Oosting** (Utrecht)
 Effects of maternal separation on apoptosis related gene expression and adult neurogenesis
- 15.15 **Thomas Steckler** (Beerse, Belgium)
 Developing antidepressant and antimanic treatment strategies involving modulation of neuroplasticity
- Session 31 (Gelderland)*
AMYLOID- β AND ALZHEIMER'S DISEASE
Chairpersons: Wiep Scheper and Elly Hol (Amsterdam)
- 14.00 **Hilal Lashuel** (Boston, MA, USA)
 Protein fibrillogenesis in Alzheimer's disease: separating the culprits from the innocent bystanders
- 14.30 **Sidhartha Chafekar** (Amsterdam)
 Cellular models for amyloid- β toxicity
- 14.45 **Rob Veerhuis** (Amsterdam)
 Extracellular amyloid- β -associated proteins in AD
- 15.00 **Micha Wilhelmus** (Nijmegen)
 Small heat shock proteins inhibit amyloid- β protein aggregation and cerebrovascular amyloid- β protein toxicity
- 15.15 **Annemieke Rozemuller** (Amsterdam)
 Tau, microglia and plaque-associated proteins in dyschoric angiopathy
- Session 32 (Patio)*
MONITORING NEUROTRANSMITTERS IN GOAL-DIRECTED BEHAVIOR
Chairperson: Matthijs Feenstra (Amsterdam)
- 14.00 **Paul Phillips** (Chapel Hill, NC, USA):
 Subsecond dopamine changes during reward-related behavior
- 14.30 **Arjen van Ooyen** (Amsterdam)
 Dopamine and models for reinforcement learning
- 14.45 **Jamilja van der Meulen** (Amsterdam)
 Prefrontal DA release and cognitive flexibility
- 15.00 **Dilek Karakuyu** (Bochum, Germany)
 Dopaminergic and serotonergic modulation of working memory
- 15.15 **Wietse Oldenziel** (Groningen)
 In vitro and in vivo validation of hydrogel-coated l-glutamate microsensors
- Satellite Neuropsychology (part 3) (Renkum)*
NEUROPSYCHIATRY IN ADULTS AND CHILDREN
(organized by the Dutch Society for Neuropsychology) See page 29
- 14.00
- 15.30 Break
- Session 33 (Branding)*
SOCIETY OF EXPERIMENTAL AND CLINICAL NEUROSCIENCE (EKN) KEYNOTE LECTURE
Chairperson: Bart Ellenbroek (Nijmegen)
- 16.00 **Terry Robinson** (Ann Arbor, MI, USA)
 Drugs, neuroplasticity and the transition to addiction

Poster Award Ceremony Neuroscience 2

Parallel sessions 34-37

Session 34 (Doorwerth)

EPILEPTOGENEITY OF BRAIN LESIONS

Chairpersons: Frans Leijten (Utrecht) and Rob Voskuyl (Leiden) (organized and sponsored by 'SWO Liga tegen Epilepsie')

- 17.00 **Diane Chugani** (Detroit, USA)
Neurochemical characteristics of epileptogenic lesions: PET experience
- 17.30 **Else Tolner** (Amsterdam)
Progression of epileptogenesis in chronic epileptic rats: studies on parahippocampal synaptic reorganization
- 17.45 **Floor Jansen** (Utrecht)
Consistency of epileptogenic foci in patients with tuberous sclerosis
- 18.00 **Saskia van der Hel** (Utrecht)
Reduced hippocampal glutamine synthetase in temporal lobe epilepsy patients is associated with neuronal loss
- 18.15 **Cyrille Ferrier** (Utrecht/Amsterdam)
Electrocorticography in ganglioglioma: correlations with histopathology

Session 35 (Branding)

THE BLOOD-BRAIN BARRIER IN NEUROLOGICAL DISEASES

Chairperson: Elga de Vries (Amsterdam)

- 17.00 **Raj Kalaria** (Newcastle, UK)
Cerebrovascular abnormalities in Alzheimer's disease
- 17.30 **Gerty Schreibelt** (Amsterdam)
Redox regulation of monocyte migration across the blood-brain barrier
- 17.45 **Liesbeth de Lange** (Leiden)
Therapeutic considerations in BBB transport changes during CNS diseases
- 18.00 **Bert de Boer** (Leiden)
Blood-brain barrier functionality, disease and drug targeting
- 18.15 **Paula Jansen** (Maastricht)
High fat diet influences brain cholesterol metabolism in wildtype and apolipoprotein E-knockout mice

Session 36 (Patio)

MODELLING OF MEMORY AND PSYCHOPHARMACOLOGY

Chairperson: Arjen Blokland (Maastricht)

- 17.00 **Kim Kuypers** (Maastricht)
The effects of \pm 3,4-methylenedioxy-methamphetamine (MDMA, 'ecstasy') on verbal and spatial memory
- 17.15 **Martijn Meeter** (Amsterdam)
Acetylcholine and learning mode: the slow shift account
- 17.30 **Elke Wezenberg** (Nijmegen)
Effects of Biperiden and Rivastigmine on memory and visuospatial processes
- 17.45 **Joyca Lacroix** (Maastricht)
Modelling recognition memory using the similarity structure of natural input
- 18.00 **Michael Hasselmo** (Boston, MD, USA)
Acetylcholine as a memory modulator

Session 37 (Gelderland)

STARTLE MODULATION AND NEUROPSYCHIATRIC DISORDERS

Chairpersons: Lucianne Groenink and Anneloes Dirks (Utrecht)

- 17.00 **Peter Lang** (Gainesville, FL, USA)
Startling stories: anxiety disorder and the motivational physiology of fear
- 17.30 **Reinoud de Jongh** (Utrecht)
Fear versus anxiety: sex, drugs and neural pathways
- 17.15 **Bart Ellenbroek** (Nijmegen)
Gene*environment interactions in the development of prepulse inhibition
- 17.45 **Anneloes Dirks** (Utrecht)
Prepulse inhibition and human neuropsychiatric disorders
- 18.00 Registration (till 18.45)
- 19.00 Dinner including **Poster Award Ceremony Neuroscience 2**

Session 38 (Branding)

NETHERLANDS SOCIETY FOR PSYCHONOMICS (NVP) KEYNOTE LECTURE

Chairperson: Jaap Murre (Amsterdam)

- 21.00 **Robert Stickgold** (Boston, MD, USA)
Cognitive neuroscience of waking, sleeping and dreaming

- 1
Roman V
Sleep restriction desensitizes the serotonin 1A receptor system in rats
- 2
De Jong TR
5-HT_{1A} receptors in SSRI-induced delayed ejaculation
- 3
Prickaerts J
Effects of mGlu1 antagonism on processes of acquisition and retention in the water maze task
- 4
Leenaars CHC
Renormalisation by antipsychotics of the amphetamine and phencyclidine induced changes in dialysate amino acid levels in the rat mediodorsal thalamus - relevance for schizophrenia
- 5
Leenaars CHC
Carlsson's hypothesis revisited: animal models of psychosis are associated with an imbalance between mediodorsal thalamic-medial prefrontal cortical feed-forward and feed-back
- 6
Van der Borght K
Input from the medial septum regulates adult hippocampal neurogenesis
- 7
Klumpers LE
Changes in hippocampal neurogenesis following treatment with the glucocorticoid receptor antagonist RU486
- 8
Krugers HJ
Altered cell turnover and synaptic plasticity in rat dentate gyrus after adrenalectomy
- 9
Wiegert O
Corticosterone hampers NMDA-receptor-dependent synaptic plasticity
- 10
Bosman LWJ
BDNF-induced scaling of climbing fiber inputs during development of the cerebellum
- 11
Sarabdjitsingh RA
Spatiotemporal distribution of a novel Doublecortin-like (DCL) protein during early mouse development: a novel neuroblast marker?
- 12
Levenga J
Differentiation of neural stem cells into oligodendrocytes
- 13
Balasubramanian V
Dopaminergic differentiation induction of neural stem cells
- 14
Cappaert NLM
Is there convergence of inputs from the entorhinal cortex and CA1 in the subiculum?
- 15
Kozicz T
Innervation of urocortinergic neurons in the Edinger-Westphal nucleus in the rat
- 16
Hoff EI
Brain mapping of selective acetylcholine receptor activation with pharmacological MRI
- 17
Couey JJ
Cholinergic modulation of layer V interneurons in the mouse prefrontal cortex
- 18
Van Aerde K
Gamma-band oscillations in prefrontal cortex
- 19
Andreescu CE
Keeping balanced in space
- 20
Heimel JA
Selectivity without functional architecture in visual cortex of a highly visual mammal
- 21
Böcker KBE
Spatiotemporal dipole models for brain electrical potentials evoked by different spatial frequencies
- 22
Roerdink JBTM
Extracting the haemodynamic response function in fMRI using Fourier-wavelet regularised deconvolution
- 23
Ramakers GJA
Investigation of structural and functional properties of ex-vivo human epileptic hippocampus
- 24
Bouwman BM
GABAergic mechanisms in absence epilepsy: a computational model-rat comparison
- 25
Heistek T
On the idea the kinetics of GABA_A receptor mediated synaptic currents control long range synchrony of 40 Hz oscillations in neocortex
- 26
Van Lier H
The influence of vigabatrin on the relationship between hippocampal EEG theta activity and locomotor behaviour in rats
- 27
Ketelaars SOM
Calcium extrusion protein expression in the hippocampal formation of chronic epileptic rats after kainate-induced status epilepticus

28

Sun GC

Anti-epileptic drugs differentially affect sodium channel subtypes IIA and IIIA stably expressed in HEK293 cells

29

Liefwaard CL

Alterations in functionality of the GABA_A-receptor in epilepsy

30

Bos IWM

Glutamine synthetase in epilepsy - analysis of brain and blood

31

Lemmens EMP

Gender differences in dentate granule cell proliferation after febrile seizures in immature rats

32

Gryszczuk KA

Modulation of hippocampal inhibitory transmission by cannabinoids

33

De Vries W

Animal models of alcohol and nicotine addiction

34

Schmidt ED

Identification of a unique corticostriatal pathway involved in cue-controlled heroin seeking

35

Nordquist RE

Increased patch reactivity in rat striatum during expression of amphetamine psychomotor sensitization is not accompanied by stereotypic behavior

36

De Vries TJ

Medial prefrontal cortex, but not nucleus accumbens dopamine nerve terminals become hypersensitive following cocaine self-administration

37

Van der Kam EL

Cocaine's rewarding value in apomorphine susceptible and unsusceptible rats

38

Van der Elst MCJ

Differences in cellular mechanisms underlying the differential response to amphetamine in apomorphine-susceptible and apomorphine-unsusceptible rats

39

Loos M

Gene expression correlates for individual differences in impulsive decision-making in Wistar rats

40

Van den Bergh FS

A behavioral and pharmacological assessment of the spontaneously hypertensive rat as a model for attention-deficit hyperactivity disorder

41

Janssen MCW

Measuring attention and impulsivity in three mouse strains

42

Jones BF

Volumetric analysis of the cingulate cortex in Alzheimer's disease

43

De Vrij FMS

Mutant ubiquitin as an endogenous reporter for proteasome failure: the threshold hypothesis

44

Boekhoorn K

Structural and functional changes in the hippocampus of tau transgenic mice

45

Eisel ULM

Antagonistic function of TNF receptors in neurodegeneration

46

Van der Kolk NM

Early hippocampal neuron loss in a novel transgenic/knock-in mouse model of AD

47

Rutten BPF

The aging brain: fewer neurons could be better

48

Rutten BPF

Loss of hippocampal synaptophysin-immunoreactive presynaptic boutons in transgenic mouse models of Alzheimer's disease

49

Rutten BPF

Long term caloric restriction induces hippocampal volume loss in mice

50

Abildayeva K

Apolipoprotein E production by astrocytes is regulated by 24(S)-hydroxycholesterol

51

Schenk GJ

The function of the DCLK gene in the stressed hippocampus

52

Wierda KDB

Unraveling the function of Munc-18 in presynaptic vesicle release.

53

Andreev D

Generation of β CaMKII knock-down mouse

54

Van Woerden GM

Neurofibromatosis type I: insertion of a stopcodon in exon 9a

55

Cornelisse LN

High speed two-photon imaging of calcium rise time kinetics and calcium handling in dendritic spines

56

Min R

Calcium dependent modulation of magnesium block in different NMDA-receptor subtypes

57

Vijverberg HPM

Concatenated subunits reveal stoichiometry and subunit arrangement of five distinct $\alpha 4\beta 2$ neuronal nicotinic acetylcholine receptors

58

Markerink-van Ittersum M

cGMP synthesis and mRNA expression of PDE2, 5 and 9 in cultured rat cholinergic forebrain neurons

59

Knijff EM

In vitro effects of lithium chloride on the production of pro-inflammatory cytokines by monocytes of bipolar patients with or without lithium-induced psoriasis

60

Kenny C

Role of paroxetine in brain cytokine changes after interferon- α treatment

61

Dijkstra IM

LPS-induced expression of the chemokine receptor CCR7 in microglia and EAE

62

Boelen E

The brain and its susceptibility for *Chlamydia pneumoniae* infection

63

Vroon A

Neuroinflammation in experimental Parkinson's disease

64

Van Horssen J

The role of the heme-heme oxygenase system in multiple sclerosis pathology

65

Teunissen C

Combined analysis of CSF markers for axonal damage in MS

66

Kreczmanski P

Age-related loss of neuropil within the lateral amygdaloid nucleus in schizophrenia

67

Schmitz C

Lamination abnormalities in the neocortex of patients with schizophrenia

68

De Jong EK

Distribution of CCL21 in damaged neurons

69

Kaja S

Familial hemiplegic migraine type-1 R192Q knock-in mice exhibit altered neuromuscular synaptic transmission

70

Bosman GJCGM

Mechanisms of retina degeneration: the role of rhodopsin synthesis in photoreceptor survival

71

Hoppe B

Involvement of selenium-containing proteins in the blood-brain barrier

72

Fallaux FJ

Regulatable viral vectors for neuroregeneration

73

Dolga AM

Exchange of NMDA receptor subunits NR2C by NR2B in mutant mice

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

Parallel sessions 39-42

Session 39 (Branding)

NEURONAL CIRCUITRY AND rTMS IN PSYCHIATRIC DISORDERS

Chairperson: Robbert Verkes (Nijmegen)

- 08.30 **Raymond Dolan** (London, UK)
Emotion, cognition and behavior
- 09.00 **Dick Veltman** (Amsterdam)
Neuronal circuitry in obsessive compulsive disorder
- 09.15 **Anke Snijders** (Nijmegen)
Neuronal circuitry and rTMS in Tourette syndrome
- 09.30 **Rick Helmich** (Nijmegen)
Neuronal circuitry and rTMS in depression
- 09.45 **Jack van Honk** (Utrecht)
Repetitive transcranial magnetic stimulation and emotion regulation: the left prefrontal cortex is not the only option

Session 40 (Doorwerth)

NEURAL CORRELATES OF PERFORMANCE MONITORING

Chairperson: Sander Nieuwenhuis (Amsterdam)

- 08.30 **Greg Hajcak** (Newark, DE, USA)
Affective and motivational influences on action monitoring
- 09.00 **Ellen de Bruijn** (Nijmegen)
Action monitoring in psychiatric disorders
- 09.15 **Richard Ridderinkhof** (Amsterdam)
Erring once and again: adaptive control in post-error slowing and other post-error performance adjustments
- 09.30 **Zoë Tiegels** (Amsterdam)
Caffeine strengthens action monitoring: evidence from the error-related negativity
- 09.45 **Rogier Mars** (Nijmegen)
Error processing in medial frontal cortex during learning of visuomotor associations

Session 41 (Gelderland)

LANGUAGE PROCESSING

Chairperson: Niels Schiller (Maastricht)

- 08.30 **Albert Costa** (Barcelona, Spain)
Lexical access in bilingual speech production: evidence from language switching in highly-proficient bilinguals and L2 learners
- 09.00 **Iemke Horemans** (Maastricht)
The selection of syntactic features in French speech production: anERP study
- 09.15 **Katharina Spalek** (Nijmegen)
Implicit gender priming in language production?
- 09.30 **Marte Otten** (Amsterdam)
Discourse-based lexical anticipation during language processing: prediction or priming?
- 09.45 **Mart Bles** (Maastricht)
The neural mechanisms of word selection: an fMRI study

Session 42 (Patio)

COGNITIVE AGING: AIMS AND METHODS OF INTERVENTION STRATEGIES

Chairperson: Martin van Boxtel (Maastricht)

- 08.30 **Robert Hill** (Salt Lake City, UT, USA)
Intervention studies for enhancing cognitive functioning in older adults: theoretical and methodological considerations
- 09.00 **Karin Slegers** (Maastricht)
Cognitive interventions for older adults: the impact on daily life
- 09.15 **Susan van Hooren** (Maastricht)
The effect of sensory interventions on cognition and life quality in old age
- 09.30 **Susanne Valentijn** (Maastricht)
The effect of cognitive training in old age
- 09.45 **Jane Durga** (Wageningen)
The use of “Medelian randomization” to understand the etiology of age-related cognitive decline

Satellite session (Renkum)

NEUROINFORMATICS

(organized by Workgroup Neuroinformatics) see page 30

10.00 **POSTER SESSION COGNITIVE AND BEHAVIORAL NEUROSCIENCE** (Branding)

12.00 Lunch (Restaurant)

Parallel sessions 43-46

Session 43 (Branding)

TOP-DOWN VISUAL ATTENTIONAL CONTROL

Chairperson: Marijn Lijffijt (Utrecht)

- 13.00 **Marty Woldorff** (Durham, NC, USA)
Mechanisms of selective attention
- 13.30 **Fren Smulders** (Maastricht)
Perceptual load modulates ERP manifestations of endogenous attentional shifts
- 13.45 **Ellen Jongen** (Maastricht)
Electrophysiological measurement of attention following neutral noninformative cues
- 14.00 **Rob van der Lubbe** (Utrecht)
Spatiotemporal overlap between saccade preparation and attentional orienting
- 14.15 **Heleen Slagter** (Amsterdam)
Spatio-temporal dynamics of top-down control: directing attention to location and/or color as revealed by ERPs and source modelling

Session 44 (Doorwerth)

MONOAMINES, COGNITION AND BEHAVIOR

Chairperson: Wim Riedel (Maastricht / Cambridge, UK)

- 13.00 **Marco Leyton** (Montreal, Canada)
Amphetamine, alcohol and cocaine: PET/¹¹C]raclopride and dopamine depletion studies in humans
- 13.30 **Chris Edgar** (Maastricht / Newcastle, UK)
Identification of the functional interactions between serotonin and dopamine on human attention and working memory functions
- 13.45 **Marije aan het Rot** (Montreal, Canada)
The effects of tryptophan on everyday social interactions of quarrelsome individuals
- 14.00 **Tessa Kilkens** (Maastricht)
Altering serotonin synthesis by the acute tryptophan depletion method: a model for irritable bowel syndrome?
- 14.15 **Linda Booij** (Leiden)
The effects of high and low dose tryptophan depletion on mood, cognition and cardiovascular function

Session 45 (Gelderland)

AFFECTIVE NEUROSCIENCE

Chairperson: Edward de Haan (Utrecht)

- 13.00 **James Blair** (Bethesda, MD, USA)
The development of the psychopath: an affective neuroscience approach
- 13.45 **Dennis Schutter** (Utrecht)
Advancing toward a neural architecture of motivational balance
- 14.00 **Andre Aleman** (Utrecht)
Schizophrenia: disorder of the emotional brain
- 14.15 **Gudrun Nys** (Utrecht)
Depressive symptoms in the early phase post-stroke: neuro-anatomical and neuropsychological correlates
- 14.30 Break

Session 46 (Branding)

DUTCH SOCIETY FOR NEUROPSYCHOLOGY (NVN) KEYNOTE LECTURE

Chairperson: Guy Vingerhoets (Gent, Belgium)

- 15.00 **Anke Bouma** (Groningen)
Do increased ear asymmetries in dichotic listening tasks reflect reduced brain connectivity in normal aging and Alzheimer's disease?

Poster Award Ceremony Cognitive and Behavioral Neuroscience

Parallel sessions 47-50

Session 47 (Doorwerth)

MOTOR IMAGERY: A CHALLENGE FOR COGNITIVE NEUROSCIENCE

Chairpersons: Theo Mulder and Inge Zijdewind (Groningen)

- 15.45 **Jean Decety** (Seattle, WA, USA)
The neurophysiological basis of motor imagery
- 16.15 **Martin Stenekes** (Groningen)
Neural consequences of immobilization and a possible role for motor imagery
- 16.30 **Sjouke Zijlstra** (Groningen)
The role of motor imagery in learning a totally novel movement
- 16.45 **Floris de Lange** (Nijmegen)
Proprioceptive influences on motor imagery
- 17.00 **Sjoerd de Vries** (Groningen)
The role of peripheral activation in motor imagery
- 17.15 **Meyke Roosink** (Groningen)
Corticospinal activation during observation, imagery and execution of a simple and complex hand-task: a TMS study

Session 48 (Branding)

EXECUTIVE FUNCTION DEFICITS

(under auspices of the Dutch Society for Neuropsychology)

Chairperson: Leo de Sonneville (Amsterdam)

- 15.45 **Tom Manly** (Cambridge, UK)
A developmental unilateral neglect?
- 16.15 **Joke Spikman** (Groningen)
Executive and social emotional functioning in patients with CHI
- 16.30 **Dorine Slaats-Willemse** (Nijmegen)
Familial clustering of executive functioning in affected sibling pair families with ADHD
- 16.45 **Willemien Meijer** (Maastricht)
Proxies of cognitive reserve and performance on the Stroop Color-Word Test: results of the six years follow-up of the Maastricht Aging Study
- 17.00 **Hilde Geurts** (Amsterdam)
The many faces of ADHD: executive functioning profiles in ADHD subtypes

Session 49 (Gelderland)

INDIVIDUAL DIFFERENCES IN COGNITION: GENES AND BRAINS

Chairperson: Jaap Murre (Amsterdam)

- 15.45 **Terry Goldberg** (Bethesda, MD, USA)
Genotypic effects on episodic memory: experience from BDNF, G72, and GRM3
- 16.30 **Romke Rouw** (Amsterdam)
Congenital prosopagnosia: selectively impaired recognition of faces running in the family?
- 16.45 **Danielle Posthuma** (Amsterdam)
Full genome scans for cognitive phenotypes in Dutch and Australian samples
- 17.00 **Hilleke Hulshoff Pol** (Utrecht)
Genetic and environmental influences on brain structure and the association with intelligence

Session 50 (Patio)

THE ROLE OF SEROTONIN AND THE ORBITOFRONTAL LOBE IN COGNITIVE FLEXIBILITY

Chairperson: Freddy van der Veen (Maastricht)

- 15.45 **Rebecca Elliott** (Manchester, UK)
Modulation of normal orbitofrontal function by serotonergic manipulation and by clinical depression: evidence from functional imaging
- 16.15 **Lisbeth Evers** (Maastricht)
The effects of acute tryptophan depletion on reversal learning and response inhibition related brain activity
- 16.30 **Geoffrey van der Plasse** (Amsterdam)
Cognitive flexibility, serotonin and the prefrontal cortex of the rat
- 16.45 **Peter Remijnse** (Amsterdam)
The neural substrate of reversal learning in obsessive-compulsive disorder; an event-related fMRI study
- 17.00 **Esther van Duuren** (Amsterdam)
Neural ensemble recordings in rat orbitofrontal cortex: coding of reward magnitude during olfactory discrimination learning
- 17.15 **Closure**
Jeroen Schmitt (Maastricht)

- 1
Smeets SI
Neuromagnetic correlates of object visibility
- 2
Rutten K
Spatial learning and memory: sex does matter
- 3
Van der Aa FCJ
The effect of cognitive strategy and working memory on haptic exploration of relief
- 4
Gazzola V
The anthropocentric brain: the human mirror system identifies the meaning of an action, and responds both to the sight of humans and robots performing complex actions
- 5
Bekker EM
Removing overlap distortion from stop-ERPs
- 6
Steens A
Cortical activation during voluntary and non-voluntary associated contractions
- 7
Kwakkel G
Probability of regaining dexterity in the flaccid upper limb: impact of severity of paresis and time since onset in acute stroke
- 8
Van Duinen H
The relation between force production, muscle activity and brain activation
- 9
Bastiaansen M
Oscillatory brain dynamics during language processing: theta band responses in a lexical decision task
- 10
Schiller NO
Self-monitoring of metrical stress during speech production estimated from event related potentials
- 11
Nieuwland MS
Discourse context can completely overrule lexical-semantic violations: evidence from the N400
- 12
Van Berkum JJA
So who's "he" anyway? Differential EEG effects of referential ambiguity and referential failure during spoken language comprehension.
- 13
Snijders TM
Brain responses to violations of syntax and structural preferences: a MEG study
- 14
Van den Brink D
Time course of use of semantic and syntactic context information during spoken-word processing
- 15
Wiersinga-Post JEC
Temporal window of audiovisual integration in speech perception
- 16
Meijs CJC
Verbal learning in children and the influence of age and sex
- 17
Kooijman V
Word segmentation from continuous speech: an ERP study with 10-month-old infants
- 18
Huizinga M
Forest or trees? Developmental change in local-global analysis, from childhood through young adulthood
- 19
Dibbets P
Developmental neuroimaging: the creation of the switch task for children (STC)
- 20
Fraussen M
Haptic perception of spatial relations in children and adults
- 21
Stins JF
Heritability of working memory in preschoolers
- 22
Pirila S
Neuropsychological profile of diplegia spastica: predictability of neonatal ultrasound
- 23
Smulders SFA
Developmental changes in sequential effects on speeded information processing: the crossover between automatic facilitation and subjective expectancy
- 24
Comijs HC
The course of cognitive decline in older persons: results from the Longitudinal Aging Study Amsterdam
- 25
Van der Veen FM
Effects of cognitive aging on recognition of implicitly and explicitly memorized words: an fMRI study
- 26
Gosso MF
Mapping genes for memory, attention and cognitive abilities
- 27
Breuer ME
Long-term effects of olfactory bulbectomy on open field hyperactivity in rats
- 28
Brinks V
Emotional and cognitive performance in response to mineralo- (MR) and glucocorticoid receptor (GR) activation in male C57BL/6J mice

- 29
Kortekaas R
 Overlap between ejaculation-induced deactivation and 5-HT1A expression in the amygdala
- 30
Van Deursen JA
 Effects of acute tryptophan depletion on brain activity in an episodic memory task: an fMRI study
- 31
Mar A
 Behavioral effects of stress and antidepressant treatment in neonatally-handled and maternally-separated adult rats
- 32
Raymann RJEM
 Verbal episodic memory is relatively spared in elderly insomniacs
- 33
Aan het Rot M
 Social behaviour and mood in everyday life: the effects of tryptophan in high trait-quarrelsome individuals
- 34
Quik EH
 The effect of methylphenidate on attention and stopping in children with ADHD
- 35
De Jonghe JFM
 Delirium-o-meter. A new nurses' rating scale for delirium severity
- 36
Van Rijn S
 Schizotypy and social skills: performance versus distress
- 37
Veldhuijzen DS
 The effect of cold pressor pain on attention capacity
- 38
Kessels RPC
 Spatial memory deficits in patients after unilateral selective amygdalohippocampectomy
- 39
Biemans B
 Differential effects of D-amphetamine on cognitive (initiation) and motor (execution) performance in the two-choice reaction time task
- 40
Van der Werf YD
 The thalamus facilitates stimulus-evoked beta oscillations in the primary motor cortex: a TMS-EEG study in Parkinson's disease patients with unilateral ventrolateral thalamotomy
- 41
Van 't Wout M
 Facial and verbal affect recognition in schizophrenia: specific deficits in facial affect recognition
- 42
Dijkerman HC
 Does motor imagery training improve hand function in chronic stroke patients? - a pilot study
- 43
Montagne B
 Reduced sensitivity in the recognition of anger and disgust in social phobia
- 44
Baas JMP
 Effects of anticipation of shock on brainstem auditory evoked potentials
- 45
Jongsma MLA
 Correct detection of tempo-change is reflected in the P3a and P3b component of event-related potentials: different mechanisms for detecting accelerations and decelerations
- 46
Meeuwissen EB
 When the beat goes wrong: the effects of visual feedback on the feedback ERN in rhythm perception
- 47
Smit DJA
 Heritability of background EEG across the power spectrum

- Thursday 3 June
- Satellite meeting (Renkum)*
NEUROPSYCHOLOGY
(organized by the Dutch Society for Neuropsychology)
- 09.30 *Satellite I*
COGNITIVE, EMOTIONAL, AND BEHAVIOURAL CHANGES IN ELDERLY
Chairpersons: R. Kessel and M. Gerritsen
A.M.A. Brands
 Cognitive functioning in elderly persons with type 1 diabetes mellitus
M.E.M. Mol
 Cognitive performance in middle-aged and older subjects with subjective memory complaints: results from the Maastricht Ageing Study
P.E.J. Spaan
 Early assessment of dementia: the contribution of different memory components
L. Gootjes
 Subcortical white matter pathology as a mediating factor for age-related decreased performance in dichotic listening
- 10.30 Break
- 11.00 *Satellite II*
RISK FACTORS, COURSE, AND INTERVENTION OF COGNITIVE, EMOTIONAL AND BEHAVIOURAL CHANGES IN PATIENTS WITH ACQUIRED BRAIN LESIONS
Chairpersons: C. van Heugten and S. Rasquin
I. Winkens
 Exploration of the consequences of mental slowness in the daily life of stroke patients
C.A.V. Geusgens
 Strategy training in left hemisphere stroke patients with apraxia
Ruthger Righart
 Configurational face perception related to N170 in prosopagnosia
E.M. Kingma
 Psychopathology and behavioral problems in Huntington's disease
J. Heutink
 Impaired recognition of facial emotional expressions in patients with right-hemisphere lesions - What can ERPs tell us?
- 12.30 Lunch
- 14.00 *Satellite III*
NEUROPSYCHIATRY IN ADULTS AND CHILDREN
Chairperson: G. Vingerhoets
Natalie D.J. Marchetta
 Cognitive functioning in adults with Attention-Deficit/Hyperactivity Disorder compared to adults without ADHD and healthy controls
E.A.E. Holthausen
 Dynamic cognitive changes and outcome in recent onset schizophrenia
G.H.M. Pijnenborg
 Impaired recognition of negative emotional prosody in schizophrenia
R. Wassenberg
 Development of abstract language comprehension in 6 to 12-year-old Dutch children
K.N.J.A. van Braeckel
 Pointing behaviour in very preterm born children

Friday 4 June

Satellite session (Renkum)

NEUROINFORMATICS

*(organized by the Dutch Workgroup on
Neuroinformatics)*

Chairperson: Stan Gielen (Nijmegen)

- 09.30 **J. van Pelt** (Amsterdam)
Introduction on neuroinformatics
- 09.45 **G. Somjen** (Durham, USA)
Simulation studies on the generation of
epileptic seizures and spreading depression in
neurons
- 10.30 Break
- 10.50 **C. Gielen** (Nijmegen)
Neuroinformatics of neuronal information
processing: from neural networks to neuro-
imaging
- 11.35 **C. Pennartz** (Amsterdam)
Neuroinformatics and cognition: coding and
off-line reactivation of representations by
neuronal ensembles.
- 12.20 Lunch