ANNUAL REPORT
2017 & 2018
Preface

Brain and cognition research in Leiden has been very successful in the past two years; prestigious grants and awards added up to between 10 and 15 million euros, and almost 50 doctoral candidates received their PhDs. Our annual public symposium focused on the theme ‘food and brain’ in 2017, and on the theme ‘music and the brain’ in 2018. Both events were very well attended, by around 800 people each. Several international experts presented their work at our Sylvius lectures series, and members of the LIBC presented their work and interacted at the yearly LIBC research symposium.

Great opportunities lie ahead for LIBC, as new acquisition and analysis techniques in the field of data science are rapidly making their entry in brain and cognition research. In Leiden, we are ready for these opportunities. The LIBC is looking forward to continue to play a leading role in brain and cognition research, by connecting Leiden researchers, by sharing knowledge and by providing research facilities and training.
Conflict and collaboration

Professor of Social and Organisational Psychology Carsten de Dreu has been awarded both an Advanced Grant by the European Research Council (the highest European science subsidy that can be awarded to a single person).

In June 2018, the Netherlands Organization for Scientific Research (NWO) announced that Carsten de Dreu has been awarded the Spinoza Prize, the highest scientific award in the Netherlands. He received 2.5 million euros in research funding, which he can spend on research at his own discretion.

We talked to him about his passion for group processes and his dreams for the future.

What is the focus of your research?
‘I’m looking at the tensions between our common interest and self-interest. There are many situations where people are dependent on one another. We can’t build a dike on our own, for example; everyone has to chip in to pay for it. The same applies to many other collective provisions. I look at the considerations that people make with these kinds of issues. When does distrust turn into trust? How can you make sure that people not only take advantage of collective efforts, but also make a contribution themselves? These are the questions that interest me.’
Conflicts between groups are part of life. ‘In the behavioural sciences we already know a lot about inter-group conflicts, particularly about the microprocesses that play a role between and within groups,’ De Dreu says. ‘I want to explore how pressure at a macro-level affects the micro-processes that are going on prior to a conflict between groups of people. Are they independent of one another, or is one caused by the other? And how does that work?’

What are the practical consequences of your work for collaboration between people?
‘I do a lot of my research in applied clinical settings. At the moment, my colleagues and I are looking at teamwork in operating theatres at the Leiden University Medical Center. How do doctors and assistants communicate? There may be room for improvement, which would also improve the care of patients, and ultimately their chances of survival. In the past we have investigated cooperation in multiple courts, where several judges decide together on a case. This research showed that the work overload endangered the exchange of information between judges and consequently also the judgements. Judges need to be able to process a lot of information in a short time, which increases the chance of making a wrong judgement.’

Continuance of a group under pressure
De Dreu’s research project combines knowledge about macro-pressure from climate research and political geography with what we already know about micro-processes from behavioural sciences. A critical link, according to De Dreu, is the stress-bearing capacity. This is the amount of stress that a group experiences when the group’s means of existence are under pressure and the group feels its future is under threat. If climate changes or macro-economic developments
create stress that exceeds the stress-bearing capacity, a whole range of micro-processes within and between groups is set off that are predicted to incite and escalate conflicts. With this ERC Advanced Grant, De Dreu will be able to test this new theory on the basis of archive research, time series analysis and experimental lab research.

You have been conducting research on this topic since 1990. Should we be optimistic or pessimistic about the human ability to collaborate?

‘Both. I am, for example, extremely pessimistic about people’s willingness to work together to fight climate change, the subject of my ERC Advanced Grant. We’re simply not able to conquer this problem. The only thing we can do is to anticipate what’s coming: the rise in sea level and changing climatological circumstances. But fortunately humans have an enormous capacity not only for destruction, but also for innovation. This research is intended to discover at what point we switch from destruction to innovation. Why do we sometimes end up in war and another time in shared innovations? I may use my Spinoza Prize to look at the positive side of the story.’

About ERC Advanced Grants
Every year the ERC provides Advanced Grants to prominent experienced scientists, to ‘allow them to investigate their most creative ideas and to generate findings that will have a major impact on science, society and the economy.’ This year, 269 researchers in Europe were awarded an ERC Advanced Grant, amounting to a total of 650 million euros. Thirteen of these researchers are from the Netherlands. The projects awarded a grant will be carried out at universities and research institutions in 20 countries within the European Research Area.

Want to know more?
NWO wetenschap, video in Dutch: https://www.youtube.com/watch?v=AjN5aG3lLnY

2018: Carsten de Dreu, for his research on conflicts, social tension and decision-making in groups.

Source: www.nieuwsbrief.leidenuniv.nl
The paradoxical adolescents of Eveline Crone

Spinoza winner Eveline Crone: ‘It is often mentioned that you can get a long way with competition, but LIBC shows that you can achieve even more with cooperation.’

Adolescents are difficult and social, reckless and brave, lazy and creative. All in all, puberty is a period of risk and opportunity. In short: Eveline Crone's research on the brain development of adolescents has made the one-dimensional picture of the adolescent something of the past. A common theme in her work is that the different areas of the adolescent brain do not develop in synchrony. And it is precisely this that makes adolescents the paradoxical and special beings that they are.

On 16 June 2017, the Netherlands Organization for Scientific Research (NWO) announced that the Leiden professor of Neurocognitive Developmental Psychology had been awarded the Spinoza Prize, which is the highest scientific award in the Netherlands. She received 2.5 million euros in research funding, which she can spend on research at her own discretion.

The LIBC congratulates Eveline, who has been involved with our centre from the very beginning. She came to Leiden in 2005 and set up the Brain & Development Lab to study the brain development of adolescents, specifically their cognition and behaviour, using functional MRI research. And that was very new at the time. Since then, she has not only identified numerous new facts and figures on the structure and functioning of the adolescent brain, but has also shown science and society how unique, important and productive the phase of puberty is within the life cycle. Crone's influence is not limited to the academic world, according to the Spinoza Committee. Eveline Crone has always shared her innovative insights with society. This, too, is an important part of LIBC's mission. She has written books about the adolescent brain, advises governments, legal experts and schools, and perhaps most importantly: she shares the knowledge she has acquired with the adolescents themselves, for example via the (Dutch) website Kijk in je Brein.

Asked about the meaning of Leiden and the LIBC for herself and her own work, Eveline Crone says:

'I came to Leiden because in 2005 it was clear that something innovative was on the verge of happening. I found it very inspiring to see how researchers from different backgrounds set the goal of working together to set up a new field, Brain & Cognition. One of my first conversations was with Mark van Buchem and I was very impressed at the time that he was willing to make time to meet me; after all I was only a postdoc. But he was so enthusiastic and positive, and I was directly inspired by his interest.'
'Interdisciplinarity is crucial for my work; for me it is equivalent to innovation, and that is something I always want to achieve in my work. LIBC has this mission of interdisciplinarity, and there is also a very positive vibe, where people share knowledge and help each other. It's often said that you can get a long way with competition, but LIBC shows that you can achieve even more with cooperation.'

'I hope that the typical LIBC bottom-up approach will continue in the future. I believe that the most important task of the board is to promote leading research with the help of excellent facilities, and to create opportunities for meetings and cooperation. The young people on the work floor - the bright minds - will do the rest.'

Read more why the Spinoza committee found the work of Eveline Crone so special. Also check out this video that NWO made about Eveline Crone, where she talks about her own puberty and her research. Fellow LIBC researcher Professor Michiel Westenberg calls her ‘a sheep with seven legs’ and ‘an unconventional thinker and doer’.

**About the Spinoza Prize:**
The Spinoza Prize is awarded every year to a maximum of four scientists who are among the leading scholars in their field. Each scholar receives a sum of 2.5 million euros that he or she may use for new research. It is the most prestigious personal science prize in the Netherlands.

**Want to know more?**

- Eveline Crone (Leiden University)
- Brain and Development Research Center
- Hotspot LIBC Junior
- Research Dossier ‘The Developing Brain and Behaviour’ (Leiden University)
- Spinoza Prize for ‘Puberty Professor’ Eveline Crone, Leiden University news article, 16 June 2017
- [Wie is Eveline Crone? Hypothesi](https://www.volkskrant.nl/wetenschap/-pubers-zijn-geen-jonge-volwassenen-we-moeten-daar-echt-anders-over-gaan-denken--ba27c1b49/)

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**LIBC**
Brainscope: link between genetics and imaging

There is a revolution going on in brain research. New molecular biology techniques teach us more and more about what happens in our billions of brain cells, and consequently how our brain functions. This produces huge amounts of multidimensional data that just make the average neuroscientist - basically or clinically - giddy. For all those neuroscientists with all their questions and hypotheses who do not know about algorithms and complex multidimensional data, Brainscope was launched at the end of January 2017, in a paper in the scientific journal Nucleic Acids Research that went viral.

Brainscope is a web portal that visualizes which genes are active in which brain areas. But it also reveals biological networks in the brain, because it shows clusters of genes that are expressed together.

Patterns in a jungle of data

‘What is Brainscope? Brainscope is a brain atlas of gene expressions, based on two brain atlases of the Allen Institute for Brain Science, which was founded in 2003 by the recently deceased philanthropist Paul Allen, one of the founders of Microsoft. They are visualized data sets of gene expression in the brain, obtained from brain samples from deceased donors. One of the atlases is about the adult brain, the other about the developing brain. Everyone can consult the atlases. ’But before you can consult them, you first have to understand them,’ says Lelieveldt. ’We have devised a technique which facilitates its use in a very intuitive way’.

‘Suddenly you see patterns in that jungle of data,’ says bioinformatician Boudewijn Lelieveldt. Well this is what it is. And he puts a world socket converter on the table. ’It is just a simple connection, but then between genetics and imaging. Anyone can use it; you need nothing more than a PC with a web browser.’

Brainscope is the product of Delft-Leiden collaboration in Medical Delta, led by Lelieveldt. He himself was educated in Delft and obtained his PhD in medical image processing in Leiden. He is now professor of medical imaging at both Leiden University / LUMC and Delft University of Technology, as Medical Delta professor. He runs a large image processing group at the LUMC.
'Suppose,’ he says, ‘you want to know more about the function of the APO-E gene, which plays a role in cholesterol metabolism. So you search for this gene in Brainscope, and you immediately see in which brain areas it is active. But you also see which genes are active together with APO-E. And if a gene has almost the same expression profile as a number of other genes, this can hardly be a coincidence. That way you come up with interesting hypotheses.’

**Duchenne and cognition**

To indicate how many new insights this gene expression data can produce, he refers to Professor Aartsma-Rus’s research into Duchenne’s disease, which she carried out together with a Delft-Leiden team (Ahmed Mahfouz, Nathalie Doorenweerd and Marcel Reinders). An article on this project appeared in *Scientific Reports* in October 2017. This serious muscle disease is caused by a single defective gene, which means that a protein is not produced that ensures the stability of muscle cells. But from clinical practice we know that many Duchenne patients also have behavioural and learning problems. The protein that is lacking is also expressed in the brain, so a key question is how the lack of protein in the brain can lead to these problems?

Lelieveldt: ‘In order to gain more insight into this, we have examined everything we could find in the Allen atlas. One of the things that became clear was that the expression profile of the Duchenne gene strongly resembles the profile of genes that play a role in autism and learning problems.’

But the researchers saw even more. Lelieveldt: ‘With Duchenne, depending on the location on the gene that is affected, different proteins are not produced in the brain. We discovered that two of these three proteins are normally created very early in development, when the brain is still under development. The other protein is only expressed later in life. If the first two proteins are missing, this has a far bigger impact on the anatomy of the brain than when only the last protein is missing. This indeed corresponds with previous research with imaging techniques in Duchenne patients and with cognitive profiles.’

‘The crux of this type of research is collaboration,’ says Lelieveldt, ‘between Delft and Leiden and also within the LUMC. We need people with a background in computer science but also MR physicists (Hermien Kan) and neurologists (Erik Niks) who specialize in the disease and know the patients. The interdisciplinary exchange of knowledge is an integral part of our work every day.’
BrainScope: a web portal based on the atlases of the Allen Institute for Brain Science. Researchers can use Brainscope to examine how activity of genes and brain regions are related. 20,000 genes are grouped in a cloud in one image, the tissue samples of different brain regions in another image. Statistical techniques cluster genes together if they are expressed in the same regions in the brain.

Wish to know more?

- Brainscope
- The article in Nuclear Acids Research in which Brainscope was introduced
- Boudewijn Lelieveldt
- Division of Image Processing LUMC
- Delft Bioinformatics Lab
- Allen Institute for Brain Science
- The article on Duchenne in Scientific Reports
- Medical Delta
LIBC publiekssymposium
24 November 9.00 uur Stadsgehoorzaal Leiden

eet (je) slim
voeding en ouder worden

de toekomst van voeding
demo tasting bugs world

LIBC Leiden Institute for Brain and Cognition
Leiden stad van ontdekkingen
Discover how food is related to the brain at the LIBC symposium

2017, November 24

“Have you eaten your lunch with attention?” psychologist Lotte van Dillen asks the audience of over 800 people in the Leidse Stadgehoorzaal taking part in the afternoon programme. Before the coffee break, chairman Laura Steenbergen had already explained how caffeine would hijack the adenosine receptors in the brain. 'Food and the brain.' That was the theme of the LIBC public symposium 2017, held on November 27 in a packed room.

Every year, the LIBC, together with the Municipality of Leiden, organizes a public symposium on a theme that appeals to a large group of people. This year the public symposium was organized by Lorenza Colzato and Laura Steenbergen. It is an important mission of the LIBC to share knowledge and to contribute to the public debate. Healthy and sustainable food is also more prominently on the agenda in the Municipality of Leiden, said alderman of Leiden Paul Dirkse.

There is an abundance of food news and tips in media and food blogs, but it is difficult to tell what is based on evidence and what are mere opinions. What do we already know and what not, and what are the current hot topics in science when it comes to food and the brain?

Different types of research
Nutrition research is difficult (you can’t eat in an MRI scanner), complex (it’s difficult to unravel a whole diet), and multidisciplinary in nature, as soon became clear during the symposium. Large randomized trials are needed, even larger meta-analyses, and also animal studies, lab research into molecular mechanisms or careful ‘first-time studies’ with an MRI scanner to test the potential of a new idea.

The first 1000 days
The first three years after conception are a crucial period in a person’s life. This is especially true for the development of the brain. The brain is ‘plastic’ and grows quickly, and a shortage of nutrients such as zinc, iodine or iron in the earliest years of life can have major consequences for your cognition. But much research is still needed on the effects of specific substances, explained clinical psychologist Verena Ly. An example of her research is that she discovered that new-born babies with iron deficiency could not distinguish the voice of their own mother from that of a stranger.
Nutrition and aging
Another interesting period that is the focus of a lot of research is ageing, as Marieke van der Waal and Eline Slagboom illustrated. It has long been thought that after the age of 60 little health gain can be achieved with lifestyle changes, explained molecular epidemiologist Slagboom. That is not true. In a recent intervention study among 60- to 70-year-olds, she found that the metabolism can normalise in three months by eating less and exercising more. “That’s something we didn’t know before!” Research with mice has shown that it is also possible to improve brain function in these animals by dietary changes.

Tasting with your brain
People taste not only with their tongue but also with their eyes, ears and above all with their brain, psychologist Lotte van Dillen explained. The fact that airplane food is less tasty is partly due to the constant background noise. And when we are multitasking we taste less intensely: we don’t even notice the difference if lemonade is made 50% sweeter, and we just drink more of it. One of her tips to increase taste: create rituals around food, for example a ritual around a piece of chocolate.

Our second brain
A hot topic in science is also the microbiome: the billions of bacteria and other micro-organisms that live in our intestines. Intestinal bacteria produce substances that communicate with the brain, also referred to as our ‘second brain’. They also have a major influence on the immune system. There are increasing indications that the microbiome also has sensitive periods and that the development of the intestinal flora is parallel to our neural development, said clinical and health psychologist Verena Ly. If so, we may also be able to intervene with nutritional interventions if things go wrong.

Click here for an impression of the public symposium 2017 (in Dutch)! Link: https://www.youtube.com/watch?v=JYLizkrFXCs&feature=youtu.be
**Become a better person through food?**
Can you become smarter or more social with food and dietary supplements? It is possible, explained cognitive psychologist Laura Steenbergen. She showed herself that tryptophan, a precursor of serotonin, can make test subjects more generous. This kind of research is still in its infancy, based on pilot studies with small groups of subjects, she warned. 'In the coming years, more studies will have to be carried out in this area, with larger samples.'

**Slaves from our reward center?**
Why can't we keep away from sugar? Neuro-imaging researcher Jeroen van der Grond used an MRI scanner to investigate what happens in our brains when we drink something sweet. He saw that both the hunger and the reward area in our brain come to rest. Yet, we do not have to be slaves to our brain, food pharmacologist Renger Witkamp argued. As soon as we see and smell food, our intestines produce signal substances that go to the brain. Can we perhaps imitate them so that people are more easily sated and eat less, or can we make healthy food more rewarding for the brain? It has, for example, been discovered by chance that cannabis increase the taste and enjoyment of food, and there are even indications that kitchen herbs have a similar effect.

**Moral**
Fortunately, there is also a lot that can be gained without biochemical interventions, was the take home message of the day. Moderate and healthy eating with lots of vegetables, combined with movement, works perfect for the average person and can reduce or even ward off type 2 diabetes. Experiential expert and science journalist Niki Korteweg talked about how she coped with her burnout with a smart diet. And 'smart eating' also means thinking about the future of our planet, argued Koert van Mensvoort, who provided the audience with a future exploration with cultured meat.

LIBC
30 November 2018
Stadsgheoorzaal Leiden
publieksdag muziek en het brein emotie en muziek
Daar zit muziek in!
www.libc-leiden.nl
A look at music in the brain at the LIBC public symposium

How does music affect a person’s brain? That was just one of the questions on the minds of the people who came to the LIBC public day to hear Rebecca Schaefer’s talk, as well as to hear from other top researchers about their investigations into music. The five woodwind players who make up Calefax may have stolen the show, but the Dutch Sign Language Choir stole audience members’ hearts.

Leiden neuropsychologist Schaefer organised a test performance in the Stadsgehoorzaal on 30 November, at which the audience could see brainwave frequencies displayed on a large screen. A stirring piece by Beethoven triggered a more significant result in the subject’s brainwaves than Satie’s tranquil music, which showed an almost entirely straight line. How often do you get a glimpse into how research is actually conducted?

A song stuck in your head
When Schaefer mentioned that having a song ‘stuck in your head’ is a common experience, all the raised hands in the hall confirmed that assertion. Schaefer also illustrated how brain activity differs between actually experiencing music and imagining music in your mind. To demonstrate this, she carried out tests on visitors in the hall by interrupting and adding rhythms. ‘Rebecca is all about music, she’s the driving force behind the day,’ says fellow organiser Claartje Levelt. Shaefer invited a line-up of musicology experts to join her for the event, which was opened by Councillor Marleen Damen.

Finding more music
These leading academics are passionate ambassadors for research into music, and each of them has a unique perspective. Henkjan Honing discussed his search for the origin of musicality in both people and animals. He was followed by the American Psyche Loui who discussed the link between music and emotions. Anja Volk believes that search engines can help people find new music based on repetitions and patterns they’re already familiar with, for example using their playlists. Sonja Kotz investigates the effect of music on exercise in people with Parkinson’s disease, and how music can even influence their cognitive ability. Music and speech is the domain of the American researcher Aniruddh Patel, who showed that the English language has more swing to it than French, thanks to a greater variety in pitch.
Hands in the air for the sign language choir
‘Well-structured talks,’ is how visitor Kees van Putten looks back on the day. The methodology and statistics psychologist is enthusiastic about the way the speakers engaged the audience. There was time for audience questions after each talk.
Sign language interpreters made the day accessible to everyone. ‘Music is for everyone; music is inclusive,’ said Schaefer, as the day ended with a performance by the Dutch Sign Language Choir. Instead of the usual applause, the audience gave the choir a standing ovation with everyone's hands in the air.
In the Spotlight 2017

Eveline Crone was awarded a Spinoza Prize, won two awards from NWO and was appointed to three scientific societies, including the European Research Council. Dutch monthly magazine OPZIJ also voted her the most influential female scientist in the Netherlands.

A new health programme will reward patients with - or at risk of developing - cardio-vascular diseases for keeping to a healthy lifestyle. A research group including psychologist Andrea Evers has been awarded 2.5 million euros by the Dutch Heart Foundation and the Ministry of Public Health, Welfare and Sport; Read more. Professor Andrea Evers also received the prestigious NWO VICI in 2017. Read more

The Royal Netherlands Academy of Arts and Sciences (KNAW) has chosen Prof. Dr. Lisa Cheng as a member. The prominent members of KNAW, are chosen on their academic and scientific achievements and the membership is for life.

The KHMW (Koninklijke Hollandsche Maatschappij der Wetenschappen) has decided to grant the 'Keetje Hodshon Prijs voor Taalwetenschappen' to Jurriaan Witteman for his 2014 dissertation titled ‘Towards a Cognitive Neuroscience of Prosody Perception and its Modulation by Alexithymia.’ Watch this (in Dutch)
Onno Meijer was awarded a grant of the Dutch Brain Foundation and the Ministry of Public Health, Welfare and Sport (ZonMW). Corticosteroids (medicines that suppress inflammation or swelling) often cause psychological side effects, such as sleep problems and depression. With this grant researchers from the Leiden University Medical Center and colleagues are going to investigate how they can prevent these side effects.

In his PhD defense entitled ‘Control of complex actions in humans and robots’, Roy de Kleijn discusses how to develop computational models of cognition for use in robotic systems as part of the EU-funded research project ‘RoboHow.Cog: Web-enabled and experience-based cognitive robots that learn complex everyday manipulation tasks’.

Publication in Nature Communications by Sabine Peters; The brains of adolescents react more responsively to receiving rewards. This can lead to risky behaviour, but, according to research of Sabine Peters, it also has a positive function: it makes learning easier.

Professor of Social and Organisational Psychology Carsten de Dreu has been awarded both a Spinoza Prize and an Advanced Grant by the European Research Council. These grants will allow De Dreu to carry out research on the causes of conflicts between groups at both macro- and micro-level. Historical and geographical research shows us that scarcity at macro-level—for example, as a result of climate change or economic decline—can lead to social unrest and war. ‘I want to explore how this pressure at macro-level works its way through to the micro-processes that are going on prior to a conflict between groups of people.

Thijs van Osch has been awarded a grant of 800,000 euro by the NWO TTW program together with Andrew Webb, Berit Verbist, Marius Staring, Jan Willem Beenakker and Peter Boernert. Together they are investigating new diffusion MRI techniques, which — together with new artificial intelligence techniques — can ensure robust tumor imaging and the objective tracking of treatment effects of proton therapy.

Laura Steenbergen has been awarded an NWO VENI grant of 250,000 euro. Research on animals and small groups of people provides scientific evidence for the idea that intestinal bacteria influence mental health. The researcher will investigate whether the connection between the brain and microbiota in the intestine can be used to promote mental health.

Andreea Geambasu defended her PhD thesis on December 11th, 2018. Geambaşu wanted to replicate an often-cited study by Marcus et al. from 1999. The experiments show that seven-month-old babies can learn simple patterns such as XYX, XXY or XYY in a short phase in series of syllables such as le-di-le, le-le-di or le-di-di. This research showed that babies are able to generalise a rule, that is, to adapt it to new information.
Elise Kortink has been awarded an NWO Research Talent Grant titled 'Changing minds in social anxiety: a developmental network approach to neurocognitive bias modification'. Our brain has a predictive mechanism for behavioral reactions to uncertain social situations, which is also involved in social learning processes. Kortink will investigate if deviations within this mechanism are related to the development of a social anxiety disorder. The research is focused on adolescence, a development period that is sensitive to social anxiety.

A NWO VENI grant was awarded to Marian Hickendorff 'How (smart) do children choose between calculation strategies?'. You can solve a math problem like 812 minus 784 in different ways. Computing education attaches great importance to children being able to apply different strategies and to choose between them smartly. This research project charts how children do this and how that is related to the maths that they receive.

Evin Aktar has been awarded an NWO VENI grant 'Breaking the transgenerational transmission of social anxiety'. Social anxiety occurs in families. Parents can transmit fear because their children experience their anxious reactions. This project examines, for the first time, whether transgenerational transmission of anxiety can be inhibited or reduced by letting children experience self-assured reactions from the other parent prior to an anxious reaction.
Grants and Awards 2017

NWO

Spinoza Prize

• Prof.dr. Eveline Crone
  € 2,500,000

VICI Grant

• Prof.dr. Andrea Evers
  The role of nocebo effects for insufficiently explained somatic symptoms, such as chronic pain, itch or fatigue.
  € 1,500,000

VENI Grant

• Dr. Barbara Braams
  Risk behaviour in young people
  € 250,000

• Dr. Jolien Rijlaarsdam
  General psychopathology: greater than the sum of its parts?
  € 250,000

• Dr. Lucia Bossoni
  The magnetic brain: Alzheimer's disease seen through iron
  € 250,000

Rubicon

• Dr. Evin Aktar
  Evin Aktar will conduct research at Penn State University's Cognitive Affect and Temperament Lab
  € 150,000

ZonMW

• Dutch Brain Foundation and the Ministry of Public Health, Welfare and Sport (ZonMW)
  Prof.dr. Onno Meijer
  € 300,000

• Dutch Heart Foundation and the Ministry of Public Health, Welfare and Sport (ZonMW)
  Prof.dr. Andrea Evers
  € 2,500,000
**Royal Netherlands Academy of Arts and Sciences (KNAW)**

- Dr. Hendrik Muller prize for Behavioural and Social Sciences
  - Prof.dr. Eveline Crone
  - € 250,000
- Ammodo Award
  - Prof.dr. Eveline Crone
  - € 300,000

**Other**

**Startup Grant from the Dutch national initiative “Nationale Wetenschapsagenda”**

- Prof.dr. Michiel Westenberg
  - Equal opportunities for a diverse youth
  - € 2,500,000

**Startup Grant from the Dutch national initiative “Nationale Wetenschapsagenda”**

- Prof.dr. Eveline Crone
  - 'NeuroLabNL' project
  - € 2,500,000

**NARSAD Young Investigator Grant of the Brain & Behaviour Research Foundation**

- Elseline Hoekzema
  - € 60,000

**Diener Award**

- Prof.dr. Carsten de Dreu

**The ‘KHMW’ Keetje Hodshon price**

- Dr. Jurriaan Witteman for his 2014 dissertation titled ‘Towards a Cognitive Neuroscience of Prosody Perception and its Modulation by Alexithymia’

**The dr. Hendrik Muller prize for Behavioural and Social Sciences by the KNAW**

- Prof.dr. Eveline Crone
  - € 25,000

**NRO Grant**

- Dr. Marian Hickendorff
  - € 50,000
Appointments

- Prof.dr. Bernhard Hommel has been appointed senator of the ‘Leopoldina’, the German National Academy of Scientists
- Prof.dr. Lisa Cheng has been appointed member of the Royal Netherlands Academy of Arts and Sciences (KNAW))
- Prof.dr. Eveline Crone has been appointed member of the Scientific Council of the European Research Council (ERC) and member of the Social-Scientific board (SWR) of the Royal Netherlands Academy of Arts and Sciences (KNAW))
- Prof.dr. Lorenza Colzato has been appointed Professor by Special Appointment at Ruhr University Bochum in Germany

LIBC related PhD defenses 2017

- January 2, Laura Compier-de Block, Child maltreatment
  Promotor: Prof.dr. M.J. Bakermans-Kranenburg, prof.dr. L.R.A. Alink and prof.dr. B.M. Elzinga
- January 10, Steven J.A. van der Werff, The stressed brain
  Promotor: Prof.dr. Bernet Elzinga and prof.dr. N.J.A. van der Wee
- January 12, Jorien van Hoorn, Hanging out with the right crowd
  Promotor: Prof.dr. E.A. Crone, prof.dr. E. van Dijk and prof.dr. C. Rieffe
- January 19, Welmer Molenmaker, The (un)willingness to reward cooperation and punish non-cooperation
  Promotor: Prof.dr. E. van Dijk
- January 19, Andrea Wildeboer, Nice traits or nasty states
  Promotor: Prof.dr. M.H. van IJzendoorn, prof.dr. M.J. Bakermans-Kranenburg and prof.dr. H.W. Tiemeier (Erasmus MC)
- March 2, Katinka Beker, Learning from texts: Extending and revising knowledge
  Promotor: Prof.dr. P.W. van den Broek
- March 14, Hanneke Smaling, Maternal reflective functioning: Influence on parenting practices and the early development of externalizing behaviour
  Promotor: Prof.dr. J.T. Swaab and prof.dr. S.H.M. van Goozen
- April 12, Anouk Netten, The link between hearing loss, language, and social functioning in childhood
  Promotor: Prof.dr.ir. J.H.M. Frijns and prof.dr. C. Rieffe
- April 20, Jantiene Schoorl, Self-regulation in boys with oppositional defiant disorder and conduct disorder
  Promotor: Prof.dr. H. Swaab and prof.dr. S.H.M. van Goozen
- June 1, Olga Kepinska, The Neurobiology of Individual Differences in Grammar Learning
  Promotor: Prof.dr. N.O. Schiller
- June 15, Sophie Schmid, Arterial spin labelling in space and time: new MRI sequences to probe cerebral hemodynamics
  Promotor: Prof.dr. A.G. Webb
- June 28, Nathalie Doorenweerd, The Duchenne Brain
  Promotor: Prof.dr. J.J.G.M. Verschuuren
• July 4, Jill Suurland, *Aggressive behavior in early childhood*
  Promotor: Prof.dr. H. Swaab and prof.dr. S.H.M. van Goozen (Cardiff University)
• July 5, Man Wang, *A Psycholinguistic Investigation of Speech Production in Mandarin Chinese*
  Promotor: Prof.dr. N.O. Schiller
• July 5, Daan van de Velde, *The processing of prosody by Dutch cochlear implant users*
  Promotor: Prof.dr. N.O. Schiller and prof.dr.ir. J.H.M. Frijns
• September 28, Cornelie Andela, *Understanding clinical outcome in patients with pituitary disease; a biopsychosocial approach*
  Promotor: Prof.dr. A.M. Pereira and prof.dr. A.A. Kaptein
• October 31, Rosa Meuwese, *Me, My Friends, and I*
  Promotor: Prof.dr. E.A. Crone
• October 31, Margarita Gulian, *The development of the speech production mechanism in young children: Evidence from the acquisition of onset clusters in Dutch*
  Promotor: Prof.dr. C.C. Levelt and prof.dr. N.O. Schiller
• November 7, Rudy van den Brink, *Catecholamine function, brain state dynamics, and human cognition*
  Promotor: Prof.dr. S.T. Nieuwenhuis
• November 14, Eline Meijer, *This is (not) who I am: Understanding identity in continued smoking and smoking cessation*
  Promotor: Prof.dr.A.W.M. Evers and prof.dr. C. van Laar (KU Leuven)
• November 16, Anne Krause-Utz, *The influence of dissociation on emotional distractibility in borderline personality disorder: a neuroimaging approach*
  Promotores: Prof.dr. B.M. Elzinga and prof.dr. P.H. Spinhoven
• November 23, Roy de Kleijn, *Control of complex actions in humans and robots*
  Promotor: Prof.dr. B. Hommel
Grants and Awards 2018

NWO

Spinoza Prize
- Prof.dr. Carsten de Dreu
  € 2,500,000

VIDI Grant
- Dr. Mariska Kret
  Alone and afraid: Emotional disorders in social anxiety en autism
  € 800,000

VENI Grant
- Dr. Evin Aktar
  Breaking the transgenerational transmission of social anxiety
  € 250,000
- Dr. Marian Hickendorff
  How (smart) do children choose between calculation strategies?
  € 250,000
- Dr. Jörg Gross
  Solve social dilemmas if not everyone counts on it
  € 250,000
- Dr. Sanneke van Rooden
  Unraveling the role of blood vessels in dementia
  € 250,000
  Mental well-being? Think about your intestines!
  € 250,000

TTW
- Dr.ir. Thijs van Osch, in co-operation with Dr. Andrew Webb, Dr. Berit Verbist, Dr. Marius Staring, Dr. Jan Willem Beenakker and Prof.dr. Peter Boernert
  Robust diffusion-weighted magnetic resonance imaging for non-invasive monitoring of proton beam treatment
  € 800,000
Research talent

- Elise Kortink
  *Changing minds in social anxiety: a developmental network approach to neurocognitive bias modification*

Open Research Area

- Dr. Lotte van Dillen in collaboration with Prof.dr. Wilhelm Hofman, Cologne University (D) and Dr. Henk van Steenbergen, Leiden University (NL)
  *Work Hard, Play Hard*
  € 553,000
- Prof.dr. Carolien Rieffe in collaboration with the Leiden-Delft-Erasmus (LDE) community
  *Breaking the cycle: an inclusive school environment outside the classroom for adolescents with ASD*

ERC

Advanced Grant

- Prof.dr. Carsten de Dreu
  *The causes of conflicts between groups at both macro- and micro-level*
  € 2,500,000

Marie Curie Grant

- Dr. Szymon Wichary
  €200,000

Starting Grant

- Dr. Mariska Kret
  *From Mimicry to Trust: A Tinberian Approach*
  € 1,500,000

Royal Netherlands Academy of Arts and Sciences (KNAW)

Sara van Dam Grant

- Dr. Anna van Duijvenvoorde
  Research project on social influence and risky behaviour in adolescents with ADHD (collaborators professor Huizenga (University of Amsterdam), professor Popma (VU University) and professor Pollak (Hebrew University))
  €100,000
- Dr. Sandy Overgaauw
  Research project on what happens in the brains of young people making mistakes that have positive or negative consequences for peers (collaborators Einat Levy-Gigi Bar Ilan University in Ramat Gan and Ellen de Bruijn University of Leiden)
  € 71,100
Other

Advanced Bionics Research grant
- Prof.dr.ir. Johan Frijns
  € 250,000

Templeton World Charity Foundation Grant
- Dr. Mariska Kret
  *Evolutionary Insights in Social Intelligence: How Can We Learn from the Bonobo?*
  € 250,000

LUF (Leiden University Fund), Leo Moret Fund
- Prof.dr. Lenneke Alink
  *Resilience after the death of a parent*
  € 180,000

China Scholarship Council
- Ning Zhiyuan under supervision of prof.dr. Carel ten Cate
  *Understanding the cognitive mechanisms underlying the perception of pitch, spectral features and rhythms in birds*

LUF (Leiden University Fund), Gratema research grant
- Dr. Jörg Gross
  *Tension between holding on to individual freedom and motivating collective action*
  € 25,000
- Dr. Verena Ly
  *Develop challenge and a sense of control and stress resistance*
  € 20,631
- Fatemeh (Simin) Tabassi Mofrad
  *Mapping Sex-by-genotype Interactions in Brain Functions*
  € 25,000

NRO Grant
- Dr. Marian Hickendorff
  € 13,500

Woman in Science grant L’Oréal & UNESCO
- Dr. Liesbeth van Vliet
  € 25,000
Medical Delta Grant for the Leiden-Delft-Rotterdam consortium

- Prof.dr. Andrea Evers, Prof.dr. Niels Chavannes, Dr. Valentijn Visch, Dr. H. Bussman, Mike Keesman & Dr. Roos van der Vaart

  
  Benefit for all: towards an inclusive eHealth self-management ecosystem for healthy living

  € 350.000

Jacobs Foundation Research Fellowship

- Dr. Dietsje Jolles

  Teaching the young-adolescent brain: One size does not fit all

  150,000 CHF

Annual award 2018 of the Dutch ENT-Society


- Winnie Gebhardt receives a Honorary Fellowship from the European Health Psychology Society - Institute of Psychology

Appointments & Awards

- Berna Güroğlu has been appointed professor of Neuroscience of Social Relations

- Ellen de Bruijn has been appointed professor of Neurocognitive Clinical Psychology

LIBC related PhD defenses 2018

- January 18, Anita Harrewijn, Shy parent, shy child? Promotor: Prof.dr. P.M. Westenberg

- January 18, Yvette Meuleman, Disease progression & quality of life in patients with chronic kidney disease Promotor: Prof.dr. C.M.J.G. Maes and prof.dr. F.W. Dekker

- January 23, Eduard Klapwijk, Neural mechanisms of social-emotional dysfunction in autism spectrum disorder and conduct disorder Promotor: Prof.dr. R.R.J.M. Vermeiren and prof.dr. A. Popma

- January 23, Moji Aghajani, The Juvenile Antisocial Brain Promotor: Prof.dr. R.R.J.M. Vermeiren and prof.dr. N.J.A. van der Wee

- February 7, Kaya Peerdeman, Harnessing placebo effects by targeting expectancies Promotor: Prof.dr. A.W.M. Evers and prof.dr. M.L. Peters

- February 21, Gemma Zantinge, Emotion regulation in young children with autism Promotor: Prof.dr. H. Swaab

- March 21, Anke Versluis, Reducing daily stress: breaking a habit Promotor: Prof.dr. P. Spinhoven and prof.dr. J.F. Brosschot

- April 4, Zohreh Shimizadeh, Prosody and processing of wh-in-situ questions in standard Persian Promotor: Prof.dr. N.O. Schiller
• April 12, Anouk Netten, *The link between hearing loss, language, and social functioning in childhood*
  Promotor: Prof.dr. Johan Frijns and prof.dr. Carolien Rieffe
• April 17, Esther Heckendorf, *What's in a child's face?*  
  Promotor: Prof.dr. M.J. Bakermans-Kranenburg and prof.dr. M.H. van IJzendoorn
• April 18, Lieke Wirken, *Psychosocial consequences of living kidney donation*  
  Promotor: Prof.dr. A.W.M. Evers, prof.dr. L.B. Hilbrands and prof.dr. A.J. Hoitsma
• May 30, Yang Yang, *The two sides of wh-indeterminates in Mandarin: A prosodic and processing account*  
  Promotor: Prof.dr. N.O. Schiller and prof.dr. L.L. Cheng
• May 31, Bobby Ruijgrok, *Tapping into semantic recovery*  
  Promotor: Prof.dr. N.O. Schiller and prof.dr. L.L. Cheng
• June 12, J. Verbree, *Systematic and cerebral hemodynamics in response to cardiovascular challenges*  
  Promotors: Prof.dr. M.A. van Buchem and prof.dr. J.J. van Lieshout
• June 20, Maaike Ferwerda, *Internet-based cognitive-behavior therapy for patients with rheumatoid arthritis*  
  Promotor: Prof.dr. A.W.M. Evers and prof.dr. P. van Riel
• September 6, Bernadet Klaassens, *Imaging functional brain connectivity: pharmacological modulation, aging and Alzheimer's disease*  
  Promotor: Prof.dr. S.A.R.B. Rombouts and prof.dr. J.M.A. van Gerven
• September 25, Melanie van der Ploeg, *The continuum of consciousness in cardiovascular stress research: An experimental expedition*  
  Promotor: Prof.dr. J.F. Brosschot
• September 26, Harmke Opmeer-Leloux, *Who Cares?!*  
  Promotor: Prof.dr. E.M. Scholte and prof.dr. J.T. Swaab
• October 10, Sara van Duijn, *MRI and histological studies on early markers of Alzheimer's disease*  
  Promotor: Prof.dr. M.A. van Buchem
• October 31, Evelien Dirks, *Psychosocial Functioning in Toddlers with Moderate Hearing Loss: The Importance of Caregivers*  
  Promotor: Prof.dr. C. Rieffe and prof.dr.ir. J.H.M. Frijns
• November 1, Min Liu, *Tone and intonation processing: From ambiguous acoustic signal to linguistic representation*  
  Promotor: Prof.dr. N.O. Schiller
• November 20, Rima-Maria Rahal, *Cognitive Processes in Social and Moral Decision Making*  
  Promotor: Prof.dr. C.K.W. de Dreu
• December 11, Andreea Geambasu, *Simple rule learning is not simple: Studies on infant and adult pattern perception and production*  
  Promotor: Prof.dr. C.C. Levelt and prof.dr. C. ten Cate
• December 11, Laura de Jong, *Ventral striatal atrophy in Alzheimer's disease: exploring a potential new imaging marker for early dementia*  
  Promotor: Prof.dr. M.A. van Buchem
Selection of Media Appearances 2017

Press (online & printed)

• Prof.dr. Andrea Evers – Trouw, 2017, March 11, Als de pijn onverklaarbaar is, wat is er dan tegen te doen?
• Dr. Gert Jan Lelieveld - NRC, 2017, May 2, Ook een echte man durft minder te gaan werken
• Prof.dr. Carel ten Cate – Volkskrant, 2017, August 25, Duif houdt componisten uit elkaar, geelkuikakakatoe heeft maatgevoel en spreeuw herkent toonladders
• Janna Marie Bas-Hoogendam, RTL nieuws, 2017, September 16, Extreme verlegenheid blijkt voor een deel erfelijk

Radio & television

• Dr. Roy de Kleijn – De kennis van nu NPO 2, April 6, Niets menselijks is een robot vreemd
• Dr. Welmer Molenmaker – NPO Radio 1, 2017, May 18, De Nieuwsgieren
• Prof.dr. Niels Schiller – NPO Radio 5, 2017, November 23, Radio Tijd voor MAX
• Dr. Sabine Peters – NPO Radio 1 – Nieuws en Co, 2017, December 20, Puber zijn en leren: misschien makkelijker dan je denkt

Leiden University news

• Elseline Hoekzema – 2017, January 5, Zwangerschapsonderzoek Elseline Hoekzema de wereld over
• Dr. Koen van der Ham – 2017, January 11, Ineke van der Ham over ’Navigeren kun je leren’
• Dr. Sabine Peters – 2017, May 11, How harmful is alcohol for the adolescent brain?
• Dr. Olga Kepinska – 2017, October 16, Right brain hemisphere also important for learning a new language

Blogs

• Lisa Schreuders – Leiden Psychology Blog, 2017, March 9, Is snoozing your alarm clock a bad habit?
• Dr. Marieke Tollenaar – Leiden Psychology Blog, 2017, May 1, Good stress – bad stress
• Luisa Prochazkova – LIBC Blog, 2017, June 27, Microdosing Psychedelics – the key to professional success?
• Bryant Jongkees – LIBC Blog, 2017, October 10, What color vision tells you about your brain and multitasking potential
Selection of Media Appearances 2018

Press (online & printed)
- Dr. Bart Verkuil – Volkskrant, 2018, March 23, Waarom we piekeren
- Prof.dr Carolien Rieffe - Trouw, 2018, Februari 28, Hoe breng ik mijn autistische zoon een leugentje om bestwil bij?

Radio & television
- Prof.dr Eveline Crone – WNL Op Zondag, 2018, November 25, About giving the good example to adolescents, rewarding of healthy behavior and more
- Prof.dr Andrea Evers – BNR Nieuwsradio, 2018, October 8, Gezond verstand
- Prof.dr Andrea Evers & Dr. Kaya Peerdeman – NPO Radio 1, 2018, February 15, Feit of Fictie: Positief denken om je lichaam te slim af te zijn [Fact or Fiction: Positive thinking to outsmart your body]
- Dr. Ineke Van der Ham – NPO Radio 1, 2018, September 3, Mannen overschatten zichzelf: ze kunnen niet beter navigeren dan vrouwen [Men overestimate themselves: they can not navigate better than women]
- Mara van der Meulen & Michelle Achterberg – NPO Topdoks Extra, 2018, October 7, Kun je emoties zien in je hersenen?!
- Prof.dr Bernhard Hommel – NPO Radio 1, 2018, September 26, Kleine beetjes drug helpen voor creativiteit
- Janna Marie Bas-Hoogendam - Sleutelstad FM, 2018, October 17, Filipijnse krokodillen en sociale angst

Leiden University news
- Bernadet Klaassens – 2018, September 3, Aanknopingspunt voor medicijnontwikkeling bij ziekte van Alzheimer
- Luisa Prochazkova – 2018, September 27, Psychedelische drugs hebben mogeljk invloed op creativiteit
- Janna Marie Bas-Hoogendam – 2018, October 5, Sociale angst in je brein: familie doet ertoe!
- Prof.dr. Eveline Crone – 2018, November 6, Bachstage in je brein met lespakket en website
- Dr. Rebecca Schaefer – 2018, December 3, Nederlands Gebarenkoor steelt harten op LIBC publieksdag

Blogs
- Joyce Snijdewint – 2018, September 25, Form a connection in 60 minutes or less: A practical guide
- Vera Mekern, Prof.dr. Bernhard Hommel & Dr. Zsuzsika Sjoerds – 2018, September 27, Computer models tell us how to be creative
- Dr. Lorenza Colzato – 2018, December 4, Responsible Cognitive Enhancement
- Roland Clarke – 2018, September 11, Bears and Predictions

Overig
Dr. Laura Steenbergen, Coen Verbraak, Jan Kuiper & Patrick van Hees – Theatre college ‘Op zoek naar geluk’
Facts and Figures 2017

Board

• prof.dr. Paul van den Broek (Education and child studies, FSS)
• prof.dr. Bernet Elzinga (Psychology, FSS)
• prof.dr. Bernhard Hommel (Psychology, FSS)
• prof.dr. Claartje Levelt (Linguistics, FGW & Psychology, FSS)
• prof.dr. Onno Meijer (Endocrinology, LUMC)
• prof.dr. Serge Rombouts (Radiology, LUMC & Psychology, FSS), chair
• prof.dr. Nic van der Wee (Psychiatry, LUMC)

Members

• Senior researchers: 102
• Post-docs: 36
• PhD students: 117

Support staff

LIBC Office:
• Soraya Arthur-Kovacs (0.4 fte)
• Mattanja Latuhihin-van der Wielen (0.4 fte)

Support Office:
• Dr. Anne Hafkemeijer, MRI research coordinator/consultant (0.6 fte)
• Christal van de Steeg-Henzen (until September 2017),
• Madeline Redelijkheid (from September till December 2017) Laboratory technician/manager LIBC scanner (0.6 fte)
• Gijs Vermeij, Laboratory technician (0.2 fte)
• Elio Sjak-Shie, technical support for Social Science researchers (0.2 fte)
• Maroesjka Kovacs, assistant (0.1 fte)
• Anne-Fleur Latuhihin, assistant (0.1 fte)

Equipment: LIBC members currently have access to the following equipment:

• 3T and 7T MRI scanners at the LUMC
• MRI dummy scanner at the LUMC
• Electrophysiological lab at the FH
• Neurofeedback lab at the FSS
• Psychophysiological lab at the FSS
• Infant labs (visual and auditory) at the FSS
• Systems for eye-movement measurements at the FH
• More than 20 labs for behavioral research at the FSS
• NIRS lab at the FSS
• tDCS lab at the FSS
• Phonetics lab at the FH

Training and education
• FMRI Data and Statistics
  50 MA students and 6 researchers registered for this course
  Coordinator: prof.dr. Serge Rombouts.
• LIBC Minor program on 'Brain and Cognition'
  52 BA students
  Coordinator: prof.dr. Bernhard Hommel
• Honours Class 'Brain and Cognition'.
  18 BA students
  Coordinators: prof.dr. Serge Rombouts & prof.dr. Mark van Buchem
• Minor program educational sciences 'Kindermishandeling en Verwaarlozing: een levensloopperspectief'
  (Dutch)
  50 BA students
  Coordinator: prof.dr. Bernet Elzinga

Yearly public symposium
• Public Symposium 'Eet (je) slim!' (Dutch)
  Organisers: prof.dr. Lorenza Colzato and dr. Laura Steenbergen
  this symposium was held in the 'city auditorium' of Leiden and was completely sold out.
  Watch a video report of this symposium

Sylvius lectures series: The LIBC organises Sylvius lectures, in which international experts address topics of broad, interdisciplinary interest.
• Christian Beckmann, Professor of Statistical Imaging Neuroscience, Donders Centre for Cognitive Neuroimaging
  Big data for precision medicine: charting resting-state functional connectivity & connectomes
• Jason Chein, Associate Professor in the Department of Psychology, Temple University Philadelphia
  Understanding the adolescent brain: vulnerability and opportunity
• Gaël Varoquaux, Associate researcher Unicog team INSERM, Research Faculty Parietal team INRIA, Member of the board of the PARIS-SACLAY Center for Data Science
  Population imaging with resting-state FMRI: towards a big-data approach to psychiatry and psychology
• Julian F. Thayer, Professor at the Department of Psychology, Emotions & Quantitative Psychophysiology, The Ohio State University
  *Cognitive control and emotional regulation: a neurovisceral integration perspective*

• Luana Colloca, Associate Professor at the Department of Anesthesiology, University of Maryland School of Nursing.
  *The nocebo effect: How expectations can make you sick*

• Kieran O’Donnell, Assistant Professor in Epigenetics and Epidemiology at McGill University (Montreal, Canada) and researcher in the Ludmer Centre for Neuroinformatics and Mental Health
  *Integrating measures of genomic risk in studies of child neurodevelopment: precision medicine in child psychiatry?*

• Karla Miller, Professor of Biomedical Engineering, University of Oxford
  *Bridging scales with neuroimaging: challenges and opportunities*
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- Marissa Wolswijk, Laboratory technician/manager LIBC scanner (0.6 fte)
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• Kindermishandeling en Verwaarlozing: een levenslopperspectief (Dutch)
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  Coordinator: prof.dr. Bernet Elzinga

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  This symposium was held in the ‘city auditorium’ of Leiden, 800 people registered for this symposium.

Sylvius lectures series: The LIBC organises Sylvius lectures, in which international experts address topics of broad, interdisciplinary interest.
• Aniruddh Patel, Tufts University & Psyche Loui Wesleyan University
  ‘Sylvius Masterclass Brain & Music’
• Valeria Gazzola, Nederlands Herseninstituut
• Rainer Goebel, Maastricht University
  Real-time fMRI Neurofeedback and Brain-Computer Interfaces: From Basic Research to Clinical Applications
• Marie Banich, Banich lab, University of Colorado Boulder
  Individual Differences in the Neural Substrates that Support Factors Underlying Executive Function
• Dr Henning Holle, University of Hull & Dr. Missanga van de Sand
  Psychoneurobiology of itch
• Prof.dr. Lene Vase Aarhus University
  Placebo effects and expectations across therapeutic interventions
• Sylvius symposium on ‘Neural bases of prosocial and antisocial behavior’
  • Dr. Stephane De Brito
    Neuroimaging research in conduct disorder: Preliminary findings from the FemNAT-CD European Consortium
  • Dr. Inti Brazil
    When neuroscience met psychopathy: a tale of frenemies
Selection of LIBC Related Publications 2017

For the full overview, see our website.

Social

Junior

Human Potential
**Stress & Emotion**


**Language**


**Pharma**


**Other**


Selection of LIBC Related Publications 2018

Social


Junior


Human Potential


Sress & Emotion


Language

Pharma


Other

Colophon

Editors
Soraya Arthur-Kovacs
Bernet Elzinga
Els Janson
Mattanja Latuhihin-van der Wielen
Hilje Papma
Serge Rombouts
Mardet van Gennip

Sources
www.nieuwsbrief.leidenuniv.nl
LUMC News Summary

Photos/Illustrations
https://pixabay.com/
Universiteit Leiden
Anne-Fleur Latuhihin

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