Cover

Title: Elisa

Design: Tineke van der Pouw Kraan
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Preface

With great enthusiasm and pride we here present the facts and figures of 2017 and 2018 of our alliance institute AI&II. In this report we summarize the milestones and new developments within the institute.

The combined centers employ more than 1000 researchers, including more than 500 PhD students. The joint output per year averages around 2000 papers and 90 PhD theses.

We are very proud that many of our researchers were able to obtain impressive grants and/or were awarded with significant prices. In the media we also received a lot of attention.

Yvette van Kooyk and Theo Geijtenbeek, directors of Amsterdam Institute for Infection and Immunity
1. Organization

1.1 Directors

Theo Geijtenbeek  
AMC

Yvette van Kooyk  
VUmc

1.2 Program leaders

Inflammatory Diseases

Bianca Blom  
AMC

Conny van der Laken  
VUmc

Reina Mebius  
VUmc

Sander Tas  
AMC
Infectious Diseases

Wilbert Bitter  
VUmc

Marceline Tutu van Furth  
VUmc

Joppe Hovius  
AMC

Rogier Sanders  
AMC

Cancer Immunology

Marjolein van Egmond  
VUmc

Eric Eldering  
AMC

Tanja de Gruijl  
VUmc

Rosalie Luiten  
AMC

1.3 Al&ll Bureau

Yvonne Duiker  
VUmc

Stella Koppel  
AMC

Tine Sibbing  
AMC
1.4 Committees

**PhD Student Committee**
- Rianne van Bentum
- (Pana)Giota Bouti
- Ammarina Chuwonpad
- Julia Eder
- Julian Freen-van Heeren
- Melissa van Gool
- Marieke Heineke
- Ivan Ramirez Moral
- Charlotte Rodriguez Neves

**Postdoc Committee**
- Thijs Crommentuijn
- Rosa de Groot
- Balthasar Heesters
- Martijn Riool
- Adithya Sridhar
- Mara Stemerding
- Anouk Zaal

**Annual Meeting Committee**
- Marjolein van Egmond
- Melissa van Gool
- Rosa Groot
- Reina Mebius
- Rogier Sander

**Network Activities Committee**
- Julia Eder
- Joppe Hovius
- Conny van der Laken
- Rosalie Luiten
- Martijn Riool
2. Meetings

- Directory meetings: once a month
- Program leader meetings: once every 2 months

2.1 2017

**Kick Off meeting**
- 8 March - De Rode Hoed Amsterdam

**AI&II seminars**
- 2 June - Inflammatory diseases @ Sanquin
- 19 September - Infectious diseases @ AMC
- 21 November - Cancer Immunology @ VUmc

**PhD retreat**
- 5-6 October @ Heemskerk for and by AI&II PhD students

2.2 2018

**Meet and Greet**
- 6 February - Volkshotel Amsterdam

**2nd Annual meeting**
- 19 June - De Rode Hoed Amsterdam

**AI&II seminars**
- 13 April - Sergey Nejentsev @ VUmc
- 29 May - Infectious diseases @ VUmc
- 18 September - Cancer immunology @ AMC
- 10 December - Inflammatory diseases @ VUmc

**PhD retrait**
- 26-27 October @ Heemskerk for and by AI&II PhD students

3. Newsletter

In 2017 and 2018 the 5 issues of the AI&II newsletter were published.

4. Website

On our website you can find information about the institute, coming events, news, grant information, vacancies etc.
5. AI&II Grants

5.1 2017

AI&II travel grants
- € 500 for an AI&II PhD student to visit a conference: 44

AI&II work visit grants
- € 5000 for an AI&II PhD student or postdoc to work at another lab/hospital abroad: 12

AI&II post doc grants
- € 80,000 for a post doc to start or continue their research within AI&II for 1 year with the aim to improve the chance on obtaining subsequent funding by working on their CV and data: 3

5.2 2018

AI&II travel grants
- € 500 for an AI&II PhD student to visit a conference: 35

AI&II work visit grants
- € 5000 for an AI&II PhD student or postdoc to work at another lab/hospital abroad: 6

AI&II post doc grants
- € 80,000 for a post doc to start or continue their research within AI&II for 1 year with the aim to improve the chance on obtaining subsequent funding by working on their CV and data: 4
6. Highlights

6.1 2017

An overview of some of the many highlights of 2017.

3D tumor growth model using fertilized chicken egg

Molecular Celbiology and Immunology developed a 3D tumor growth model using fertilized chicken egg. Modified this protocol to include immune cell population in tumor microenvironment in vivo. The model is the first 3D tumor model which can be used to study tumor growth-differentiation, angiogenesis, and immune cell differentiation in tumor microenvironment.

HPV

The research of the team has provided important scientific knowledge on HPV screening and triage; with particular focus on the use of host-cell biomarkers. HPV-based cervical cancer screening has been introduced in the Netherlands in 2017. The research efforts have furthermore resulted in valuable methylation biomarkers serving improved (early) cervical cancer detection.

Head and Neck Cancer completed an outcome study on the role of HPV in oropharyngeal cancer with over 1,200 patients.

First tattoo poli

Opening of the first tattoo poli in the Netherlands, supported by NVVA en RIWM of January 13, 2017.

O2 building

Full establishment of the resolution of inflammation research line in the O2 building, initial steps to set up a new lipidomics facility at the VUmc.

First Annual Symposium Core Facilities at O2

We hosted our first Annual Symposium for the Core Facilities at O2 on November 28, both Flow Cytometry and Microscopy. The event was a success with more than 100 attendants, 10 sponsors, internal and external speakers, etc. We also had our first Advanced Cytometry Course (14-16 November).

Dutch Society for Gender and Health

In June 2017, the Dutch Society for Gender and Health was founded by Dr. I. van der Horst-Bruinsma, together with, among others, Prof. I. Klinge, chairman of the Horizon 2020 Advisory Group on Gender and Dr P. Verdonk, with the aim of stimulating scientific research in this area.

Graft versus Host Disease (GvHD) Expertise Centre

We have been appointed ‘Graft versus Host Disease (GvHD) Expertise Centre’ by the NFU, according to the report because we combine high-grade clinical care of our patients with GvHD with a high-level, basic-translational research program on acute and chronic GvHD.

3e LYMMCARE patiënten symposium

3rd LYMMCARE patient symposium, held on 17 November, in collaboration with the patient association Hematon. LYMMCARE is also mentioned as a good example of integrated research - clinic - patient line in the report of the AMC research evaluation committee a few times.

CAR T cel patient

First CAR T cel patient in the Netherlands in AMC.

Hepatitis C-virus

Together with Clinical Virology (Janke Schinkel) / GGD Amsterdam (Maria Prins / Freke Zuure) / SOA aids NL a large innovative HCV elimination project started to eliminate HCV among men who have sex with men in Amsterdam. Project name MC Free (Amsterdam MSM HCV Free). Online / offline advice regarding HCV risk reduction / interactive risk score with test advice / HCV home test developed and decrease to validate.

Organoids for Picarnavirus research

The research of Katja Wolthers on organoids for picornavirus research has been promoted by Stichting Proefdiervrij by an interview in...
their member magazine (no 4, 2017) and on the website of St Proefdiervrij as a project for crowdfunding.

**RUBRIC**

Patients with rare inflammatory diseases may benefit from treatment with biologicals and other targeted therapies, but clinical trials are not feasible due to small numbers and heterogeneity of the diseases. That is why we have set up a national online register (RUBRIC) to monitor the effectiveness and safety of the treatment. This initiative lead to treatment with these expensive medicines that were previously not reimbursed and now eligible for reimbursement. More information can be found on https://www.rubricregister.nl/.

**Biological shredder that protects against HIV**

Every year HIV association organizes "the best day of the year on HIV". This year Theo Geijtenbeek and Carla Ribeiro were invited for an interview in talk show setting at the royal theater Carre about their discovery of the Biological shredder that protects against HIV. It was a unique opportunity to interact with an important part of our target group and introduce them to our research and the opportunities it offers for the development of new HIV therapies. An inspiring day filled with personal stories, a space for reflexion and togetherness.
6.2 2018

An overview of some of the many highlights of 2018.

**New insight into the evolution of tuberculosis bacteria**

Although tuberculosis is still one of the most radical and fatal infectious diseases, researchers from VU and VUmc have demonstrated that this bacterium is actually still limited in its virulence. The tuberculosis bacterium has a large number of different proteins on the surface that limit the damage to the host. Apparently the bacterium benefits from a mild virulence. This change only makes the fight against tuberculosis bacteria even more urgent. The findings are published in the scientific journal Nature Microbiology and are the result of an international collaboration between research groups from five countries on four continents, namely the Netherlands, South Africa, France, Mexico and Saudi Arabia led by professor Wilbert Bitter.

**3 Lancet papers on HIV drug resistance**

AiGHD/Amsterdam UMC researchers publish three Lancet papers on HIV drug resistance. A team of researchers have achieved a significant accomplishment: they published three separate papers in as many months in Lancet journals. The group, which includes researchers from the Amsterdam UMC, Amsterdam Institute for Global Health and Development (AiGHD) and the Joep Lange Institute (JLI), authored an original research article, a review paper and a viewpoint paper, all under the theme of HIV drug resistance. The first paper was published in September in Lancet HIV with first author AiGHD-JLI PhD student from Kenya, Seth Inzaule. The paper studied the clinical application of new next-generation sequencing technologies for determining HIV drug resistance. The second, a review paper led by AiGHD/Amsterdam UMC senior researcher Raph Hamers, appeared in October’s Lancet HIV. This paper provides an overview of contemporary data and trends in HIV drug resistance, highlighting challenges and opportunities for the global HIV response, especially in the poorer parts of the world. A third paper, again led by Kenyan PhD candidate Inzaule in collaboration with the World Health Organization, is currently in press in the Lancet Infectious Diseases. This manuscript is a critical viewpoint on the pros and cons of rolling out the new ‘wonder drug’ dolutegravir across low-income countries to curb HIV drug resistance.

**Collaboration for imaging techniques for chronic inflammatory diseases**

Amsterdam UMC is working with university medical centers in Europe and the pharmaceutical company GlaxoSmithKline (GSK) on the innovation and improvement of imaging techniques such as MRI and PET scans for chronic inflammatory diseases. This collaboration is facilitated by The European Infrastructure for Translational Medicine (EATRIS), an institute that brings together university medical centers and pharmacists in a European context to promote scientific research from laboratory to patient care. The aim of the current collaboration is to improve the imaging scans to map and prosecute the activity of chronic inflammatory diseases, such as rheumatism. The scans can thus contribute to the development of the most effective treatment for the individual patient. The first three projects have now been started. One of these projects is being carried out in Amsterdam UMC at the department of rheumatology at the VUmc location (eg Dr. Conny van der Laken, rheumatologist) and the department of clinical immunology & rheumatology at the location AMC (eg Dr. Sander Tas, internist-rheumatologist). This project focuses on PET scans that can be used to identify specific inflammatory cells (macrophages) in the case of rheumatism. The researchers follow these cells during treatment to assess whether the treatment works well with the patient.

**Merging Rheumatology VUmc - AMC**

On Friday, November 2, 2018, the Clinical Immunology and Rheumatology Department of AMC and Rheumatology Department of VUmc merged. Together they form the new department of Rheumatology and Clinical Immunology at Amsterdam UMC.

**Paper published in Nature**

E. Rodríguez, S.T.T. Schetters & Y. van Kooyk (VUmc) - The tumour glyco-code as a novel immune checkpoint for immunotherapy.
The video that accompanies the Nature paper won the Global Short Film Award, which was awarded at the international Cannes film festival on May 19. Cancer immunology research at VUmc shows with the film Glycotreat how cancer vaccines are designed to effectively use the immune system to attack cancer. These vaccines work best if at the same time the coat of sugar covering the tumor is broken, only then the immune system can destroy the tumor.
7 Awards

A number of researchers of AI&II received an award or were assigned an important function in (inter)national organizations.

An overview can be found in the appendix.

8 Media attention

The research of AI&II is frequently mentioned in the media, such as on television, radio, newspapers, magazines, internet, twitter and blogs.

An overview can be found in the appendix.

9 Funding

<table>
<thead>
<tr>
<th>Projects started in 2017</th>
<th>Projects started in 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location VUmc:</td>
<td>Location VUmc:</td>
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<tr>
<td>Total amount of funding:</td>
<td>Total amount of funding:</td>
</tr>
<tr>
<td>about 15.000.000</td>
<td>about 4.000.000</td>
</tr>
<tr>
<td>Location AMC:</td>
<td>Location AMC:</td>
</tr>
<tr>
<td>Total amount of funding:</td>
<td>Total amount of funding:</td>
</tr>
<tr>
<td>about 33.500.000</td>
<td>about 41.000.000</td>
</tr>
</tbody>
</table>

The different amount of funding between both locations is due to the different calculation methods at both locations. The aim is to standardize this for 2019.
## 10 Annual figures

**Figure 1: Research staff #**

![Graph showing research staff by year and institution](image)

### Table: Research Staff 2017/2018

<table>
<thead>
<tr>
<th></th>
<th>VUmc 2017</th>
<th>AMC 2017</th>
<th>Total 2017</th>
<th>VUmc 2018</th>
<th>AMC 2018</th>
<th>Total 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Scientific core staff</strong></td>
<td>214</td>
<td>150</td>
<td>364</td>
<td>196</td>
<td>109</td>
<td>305</td>
</tr>
<tr>
<td><strong>Other scientific staff</strong></td>
<td>79</td>
<td>124</td>
<td>203</td>
<td>65</td>
<td>119</td>
<td>184</td>
</tr>
<tr>
<td><strong>PhD students</strong></td>
<td>196</td>
<td>342</td>
<td>538</td>
<td>170</td>
<td>343</td>
<td>513</td>
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<tr>
<td><strong>Total researchers</strong></td>
<td>489</td>
<td>616</td>
<td>1105</td>
<td>431</td>
<td>571</td>
<td>1002</td>
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</table>
Figure 1a: Research staff # per program

CI: Cancer Immunology
IFED: Infectious Diseases
IFLD: Inflammatory Diseases

Note: a researcher can be registered with more than 1 program

<table>
<thead>
<tr>
<th></th>
<th>VUmc</th>
<th></th>
<th>AMC</th>
<th></th>
<th></th>
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</thead>
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<tr>
<td>Scientific core staff</td>
<td>109</td>
<td>96</td>
<td>80</td>
<td>70</td>
<td>53</td>
</tr>
<tr>
<td>Other scientific staff</td>
<td>41</td>
<td>33</td>
<td>17</td>
<td>14</td>
<td>12</td>
</tr>
<tr>
<td>PhD students</td>
<td>114</td>
<td>95</td>
<td>39</td>
<td>36</td>
<td>40</td>
</tr>
<tr>
<td>Total research staff</td>
<td>264</td>
<td>224</td>
<td>136</td>
<td>120</td>
<td>105</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>CI</th>
<th>IFED</th>
<th></th>
<th></th>
<th>CI</th>
<th>IFED</th>
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</thead>
<tbody>
<tr>
<td>Scientific core staff</td>
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<td>Other scientific staff</td>
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<tr>
<td>PhD students</td>
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<tr>
<td>Total research staff</td>
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</table>
Table 2: Main categories of research output

<table>
<thead>
<tr>
<th>Category</th>
<th>AMC 2017</th>
<th>AMC 2018</th>
<th>VUmc 2017</th>
<th>VUmc 2018</th>
<th>Total 2017</th>
<th>Total 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Refereed articles</td>
<td>142</td>
<td>128</td>
<td>638</td>
<td>639</td>
<td>749</td>
<td>756</td>
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<tr>
<td>Non-refereed articles</td>
<td>17</td>
<td>4</td>
<td>41</td>
<td>41</td>
<td>52</td>
<td>36</td>
</tr>
<tr>
<td>Scientific publications^1</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>-</td>
<td>1</td>
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<tr>
<td>Professional publications^2</td>
<td>2</td>
<td>6</td>
<td>21</td>
<td>23</td>
<td>30</td>
<td>25</td>
</tr>
<tr>
<td>Other research output^3</td>
<td>-</td>
<td>1</td>
<td>3</td>
<td>7</td>
<td>6</td>
<td>10</td>
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<tr>
<td>PhD theses</td>
<td>3</td>
<td>5</td>
<td>34</td>
<td>41</td>
<td>17</td>
<td>43</td>
</tr>
<tr>
<td>Total AMC &amp; VUmc</td>
<td>1921</td>
<td>2029</td>
<td>1286</td>
<td>1315</td>
<td>54</td>
<td>67</td>
</tr>
</tbody>
</table>

1. Books, chapters, reports
2. Publications about results of scientific research aimed at professionally interested people
3. Contributions in non-scientific journals and newspapers

Note: it is possible that output belongs to both AMC and VUmc. In that case, it is double counted since we are working with 2 separate systems.
11 Top publications

11.1 2017


11.2 2018


## 12 Appendix

### 12.1 Media attention

*(since there is no specific information available on media attention by AI&II from AMC, this is not mentioned in this report)*

#### 2017

<table>
<thead>
<tr>
<th>Topic</th>
<th>Medium</th>
<th>Name source</th>
<th>Date</th>
<th>URL</th>
<th>Researcher</th>
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<tr>
<td>Het vakgebied life sciences vraagt specifieke ICT-expertise: Samen bouwen aan een nieuwe onderzoekswereld</td>
<td>internet</td>
<td></td>
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<td>Gold medal life time achievement</td>
<td>Newspaper</td>
<td>Eindhovens dagblad</td>
<td>27-9-2017</td>
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<td>Castelijns JA</td>
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<td>Gold medal life time achievement</td>
<td>Magazine</td>
<td>Weekblad voor Ouder Amstel</td>
<td>27-9-2017</td>
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<td>Magazine</td>
<td>Spui Magazine</td>
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</tr>
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<td>Gold medal life time achievement</td>
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<td>Memorad</td>
<td>27-9-2017</td>
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<tr>
<td>local CpG in early-stage melanoma</td>
<td>news paper and lots of news sites -like nu.nl and Interview for Dutch public radio NPO1 &quot;Radio 1 journaal&quot;, 2 oktober 2017</td>
<td>Algemeen Dagblad</td>
<td>2-10-2017</td>
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<td>2-11-2017</td>
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<td>Re-intergratie</td>
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<td>M/V verschillen in geneesmiddelen</td>
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<td>27-11-2017</td>
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<td>Gender verschillen in behandeling reumatische ziekten</td>
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<td>2017</td>
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<td>Instant Magazine</td>
<td></td>
<td>website</td>
<td>van Kooyk Y</td>
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<td>Cancer Immunotherapy (by Lenneke Cornelissen)</td>
<td>popular scientific magazine</td>
<td>Science Vie</td>
<td>1-6-2017</td>
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<td>van Vliet S</td>
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<tr>
<td>Establishment of the ‘VUmc Women in Science’. Funding to promote women in science. Female PhD’s can apply for money to attend conferences</td>
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<td>Antibiotica niet bij elk wisselwasje'</td>
<td>Radio</td>
<td>BNR Nieuwsradio</td>
<td>27-7-2017</td>
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<td>Antibioticakuur afmaken is niet altijd nodig</td>
<td>Television</td>
<td>NOS Nieuwsuur</td>
<td>27-7-2017</td>
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2018

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<tr>
<td>Presentation KWF volunteers</td>
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<td>KWF</td>
<td>20-9-2018</td>
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<td>Venbaasjesvaccin tegen alvleesklierkanker</td>
<td>Interview</td>
<td>KWF</td>
<td>10-4-2018</td>
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<td>den Haan J</td>
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<tr>
<td>Recent findings in the field of HIV research and the impact of new HIV therapies</td>
<td>Interview</td>
<td>Symposium Power of Love: de leukste dag van het jaar om HIV te hebben - Koninklijk Theater Carré</td>
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<td>Geijtenbeek T en Ribero C</td>
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2017

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<td>Speeksel moet brandwond sneller genezen</td>
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<td>RTL nieuws</td>
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<td>Brandwonden genezen met eigen speeksel</td>
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<td>NPO radio 2</td>
<td>27-9-2018</td>
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<td>Onderzoek naar snellere genezing brandwond met speeksel</td>
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<td>Brandwonden mogelijk te genezenen met eigen speeksel</td>
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<td>Panorama: gezond</td>
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<td>Onderzoekers bekijken effect speeksel brandwonden</td>
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<td>NU.nl</td>
<td>27-9-2018</td>
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<td>Kan speeksel zorgen voor snellere genezing brandwonden?</td>
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<td>Metrotime</td>
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<td>Werkt kusje erop ook bij brandwonden</td>
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<td>Trouw</td>
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<td>Snellere genezing brandwond met speeksel</td>
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<td>Hart van Nederland</td>
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<td>Eigen speeksel op brandwond</td>
<td>Interview</td>
<td>Reformatorisch Dagblad</td>
<td>27-9-2018</td>
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<td>Gibbs S</td>
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<tr>
<td>Promotion work to general public</td>
<td>internet</td>
<td>scientistwanted.nl</td>
<td>website</td>
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<td>Heineke M</td>
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<tr>
<td>New research to patients with diabetic foot infections</td>
<td>Website</td>
<td>diabetesgeneeskunde.nl</td>
<td>22-6-2018</td>
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<td>Peters E</td>
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<td>Diabetic foot infection</td>
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<td>ADA update diabetic foot infection</td>
<td>Interview</td>
<td>diabetesgeneeskunde.nl</td>
<td>19-6-2018</td>
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<td>Peters E</td>
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<td>TBC de wereld uit</td>
<td>Magazine</td>
<td>AMC magazine</td>
<td>9-12-2018</td>
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<td>Tutu van Furth M</td>
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<tr>
<td>Feiten en fabels over kanker</td>
<td>Journal</td>
<td>Libelle</td>
<td>8-8-2018</td>
<td></td>
<td>van Egmond M</td>
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<tr>
<td>Ons afweersysteem: Hoeder, mediator en verrader Immunologie</td>
<td>Journal</td>
<td>Biowetenschappen en maatschappij</td>
<td>3-9-2018</td>
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<td>van Egmond M</td>
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<tr>
<td>The tumour glyco-code as a novel immune checkpoint for immunotherapy</td>
<td>Journal</td>
<td>Nature</td>
<td>12-3-2018</td>
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<td>van Kooyk Y</td>
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</tbody>
</table>
12.2 Awards, nominations & prizes (since there is no specific information available on awards by AI&II researchers from AMC, this is not mentioned in this report)

### 2017

<table>
<thead>
<tr>
<th>Name award/honor</th>
<th>Awarded by</th>
<th>Date</th>
<th>Place Ceremony</th>
<th>Researcher</th>
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<tbody>
<tr>
<td>Chulabhorn Award</td>
<td>Chulabhorn Institute</td>
<td>18-12-2017</td>
<td>Bangkok</td>
<td>Brakenhoff R</td>
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<tr>
<td>Poster price</td>
<td>Gordon Research Seminar - Microbial Adhesion and Signal Transduction</td>
<td>23-7-2017</td>
<td>Salve Regina University in Newport RI United States</td>
<td>Burggraaf MJ</td>
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<tr>
<td>Gold medal Life time achievement</td>
<td>European Society of head and neck radiology</td>
<td>29-9-2017</td>
<td>Lisbon</td>
<td>Castelijns JA</td>
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<tr>
<td>PhD award to my PhD student D. van Dinther</td>
<td>Dutch Tumor Immunology meeting</td>
<td>1-6-2017</td>
<td>Breukelen</td>
<td>de Haan J</td>
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<tr>
<td>Guest Professor, Hebei General Hospital, Shijiazhuang, China</td>
<td>Hebei General Hospital, Shijiazhuang, China</td>
<td>1-4-2017</td>
<td>Hebei General Hospital, Shijiazhuang, China</td>
<td>Dekker J</td>
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<tr>
<td>Best poster presentation</td>
<td>Amsterdam Neuroscience Annual Meeting</td>
<td>13-10-2017</td>
<td>Amsterdam Arena</td>
<td>Jim KK</td>
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<tr>
<td>Outstanding poster award</td>
<td>12th ENII EFIS EJI summer school</td>
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<td>Italy</td>
<td>Nadafi R</td>
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<td>EHA CRTH winner and participant</td>
<td>EHA</td>
<td>1-11-2017</td>
<td>via EHA - brussel, Rome and EHA congres in Sweden</td>
<td>Nijhof I</td>
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<td>1st Poster Prize VUmc Science Exchange Day 2017</td>
<td>Vaste Commissie Wetenschap Vumc</td>
<td>29-9-2017</td>
<td>Vumc, Amsterdam</td>
<td>Peeters CFW</td>
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<td>Scientific Director for Advanced Studies in Lung Cancer</td>
<td>University of Zurich and the European School of Oncology</td>
<td>1-12-2017</td>
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<td>Senan S</td>
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<td>Chair, Advanced Radiation Therapy Committee</td>
<td>International Association for the Study of Lung Cancer</td>
<td>1-12-2017</td>
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<td>Honorary fellow American College of Radiology</td>
<td>American College of Radiology</td>
<td>21-5-2017</td>
<td>Washington DC</td>
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<td>Jacob I Fabrikant award</td>
<td>International Stereotactic Radiosurgery Society</td>
<td>1-6-2017</td>
<td>Montreux, Switzerland</td>
<td>Slotman B</td>
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<td>Selected co-president EUROGIN VIVA-400 knappe koppen</td>
<td>EUROGIN</td>
<td>8-12-2017</td>
<td>Amsterdam</td>
<td>Snijders PJF</td>
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<td>Besloten Paleissymposium</td>
<td>Koninklijk huis</td>
<td>29-11-2017</td>
<td>Paleis op de Dam</td>
<td>van der Horst-Bruinsma IE</td>
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<td>Pfizer research award for best project proposal of imaging of therapeutic effects of anti-TNF on bone formation in psoriatic arthritis</td>
<td>Pfizer</td>
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<td>PhD award</td>
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<td>van Dinther D</td>
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<td>Beijerinck Premie 2017</td>
<td>KNAW</td>
<td>8-6-2017</td>
<td>Basel, no Ceremony</td>
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<td>Membership</td>
<td>KNAW</td>
<td>24-4-2017</td>
<td>Basel, no Ceremony</td>
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<tr>
<td>Fellow for professional excellence and outstanding service to the profession and the society</td>
<td>European Society of Clinical Microbiology and Infectious Diseases</td>
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<td>Vandenbroucke-Grauls C</td>
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<td>Ridder in de Orde van de Nederlandse Leeuw</td>
<td>Zijne Majesteit de Koning</td>
<td>6-10-2017</td>
<td>Amsterdam</td>
<td>Vandenbroucke-Grauls C</td>
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### 2018

<table>
<thead>
<tr>
<th>Name award/honor</th>
<th>Awarded by</th>
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<th>Place Ceremony</th>
<th>Researcher</th>
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<tr>
<td>Roger Pecoraro Award</td>
<td>American Diabetes Association</td>
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<td>Joep Lange &amp; Jacqueline van Tongeren Junior Investigator Award</td>
<td>UVA/VU</td>
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<td>Ribeiro C</td>
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<td>Membership Amsterdam Young Academy</td>
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<td>KWF onderzoeker van de week</td>
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<td>den Haan J</td>
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<tr>
<td>KWF onderzoeker van de week</td>
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<tr>
<td>Are anti-EGFR monoclonal antibodies the magic bullets that remove circulating tumor cells in patients with non-small cell lung cancer (NSCLC)? € 175,000</td>
<td>KWF</td>
<td>2018</td>
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<td>van Egmond M</td>
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<tr>
<td>Neutrophils as potential targets to prevent tissue damage in chronic inflammation and autoim-munity- € 270,000</td>
<td>Health Holland Prize</td>
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<tr>
<td>Novel Immunotherapies to treat cancer - € 300,000</td>
<td>Foundation Prize</td>
<td>2018</td>
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<td>VUmc profielprijs 2018</td>
<td>VUmc</td>
<td>7-1-2018</td>
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<td>Bulting I - Team SLE and Pregnancy</td>
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<td>NWO TOP grant - Characterisation of the immunomodulatory effect of stromal cells in health and disease</td>
<td>NWO</td>
<td>31-1-2018</td>
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<td>Mebius R en van Baarsen L</td>
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<td>International Prize - Film: Glycotreat: Cancer Immunology Research</td>
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<td>van Kooyk Y</td>
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### 12.3 Patents / licenses

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<tr>
<td>Statines</td>
<td>Jansen G</td>
<td>EP17187127.0</td>
<td>21-8-2017</td>
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<td>CTI BioPharma - VUmc Option Agreement regarding the patents covering the synergistic therapeutic effect between Statins and Aminopeptidases (including Tosedostat)</td>
<td>Jansen G</td>
<td>2017-0198</td>
<td>14-8-2017</td>
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<td>Improved HIV envelope glycoprotein immunogens</td>
<td>Sanders R</td>
<td>EU17183100.1</td>
<td>still under examination</td>
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<td>HPV cervix cancer assay with normalised miRNA</td>
<td>Steenbergen R, Meijer C</td>
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<td>Mortality biomarker Sepsis</td>
<td>van der Poll T</td>
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<td>Swarm Intelligence-enhanced diagnosis and therapy selection for cancer using tumor-educated platelets (Swarm)</td>
<td>Wurdinger T</td>
<td>NL2018391</td>
<td>17-2-2017</td>
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</table>
**12.4 Personal grants**

**2017**

**Location AMC**

**VENI**

- **Hoe MMP-1 longfibrose verergerd**  
  *Dr. J. (Jan Willem) Duitman (m), AMC - Genesekunde*  
  Longfibrose is een ernstige en dodelijke longaandoening waar weinig behandelopties voor zijn. Een recente doorbraak suggereert dat het eiwit genaamd MMP-1 mede deze ziekte veroorzaakt. Hier zal ik onderzoeken hoe MMP-1 deze kwalijke rol speelt en bepalen of het remmen van dit eiwit een mogelijke nieuwe behandelstrategie zou kunnen zijn.

- **Hoe werken vaccinaties?**  
  *Dr. B.A. (Balthasar) Heesters (m), AMC - Experimentele Immunologie*  
  Door tijdens meerdere rondes het beste antilichaam te selecteren kan het immuunsysteem steeds specifiekere antilichamen krijgen. Hierdoor werken sommige vaccins zo goed. Door het exacte mechanisme achter deze selectie te ontnemen hoopt de onderzoeker te begrijpen waarom sommige vaccins beter werken dan anderen en met deze kennis vaccinaties te verbeteren.

- **Lokale ondersteuning voor longresidente T-geheugencel functie: Het belang van de locatie**  
  *Dr. P. (Pleun) Hombrink (m), Sanquin - Adaptive Immunity Laboratory*  
  Longen worden tegen pathogenen beschermd door verschillende CD8+ T cel populaties met unieke functionele en uiterlijke kenmerken. De moleculaire mechanismen die hun locatie, functie en overleving reguleren zijn onbekend. Ik wil genomische analyses op individueel cel niveau combineren met immunohistochemie om interacties tussen T cellen en diverse micromilieus te begrijpen.

- **Immuuncellen onder vuur**  
  *Dr. R. (Regina) Stark (v), Sanquin Research - Hematopoiesis*  
  Het immuunsysteem is erg belangrijk om ons gezond te houden. Echter, het immuunsysteem kan tijdens responsen tegen ziekteverwekkers ook schade veroorzaken aan het eigen lichaam. Ik wil onderzoeken hoe deze schade de lokale bescherming door immuuncellen beïnvloedt.

**VIDI**

- **Fibroblasten als dirigent in ontstekingsreuma**  
  *Dr. E (Lisa) G.M. van Baarsen (v), AMC/UvA - Klinische Immunologie & Reumatologie*  
  Muizenstudies laten zien dat stromale cellen belangrijk zijn voor de ontwikkeling van tolerantie voor lichaamseigen weefsels. Baarsen bestudeert de functie van deze cellen in relatie tot het ontstaan van ontstekingsreuma. Dit zal leiden tot meer inzicht in de ontwikkeling van auto-immuunziekten en mogelijk innovatieve behandelingstrategieën bieden voor preventieve therapie.

- **Opsporen van voedselallergenen bij Alergische slokdarmontsteking**  
  *Dr. A. (Arjan) J. Bredenoord (m), AMC - Maag-, Darm- en Leverziekten*  
  Eosinofiele oesofagitis (allergische slokdarmontsteking) is een allergische ziekte die ertoe leidt dat de slokdarm steeds nauwer wordt en eten niet meer kan passeren. Kleine stukjes weefsel uit de slokdarm van patiënten zullen worden gebruikt om uit te zoeken welk voedsel de ziekte veroorzaakt, zodat patiënten weten welk eten ze moeten vermijden.

- **Biologische versnipperaar pakt hiv aan**  
  *Dr. C. (Carla) M.S. Ribeiro (v), AMC - Experimentele Immunologie*  
  Speciale afweercellen die als eerste in aanraking komen met hiv bevatten een biologische versnipperaar die hiv afbreekt. Onderzoekers bestuderen dit specifieke hiv afbraak proces wat aanknopingspunten zal geven om hiv infectie te voorkomen of bestrijden.

**VICI**

- **Nanobiologische training van het aangeboren immuunsysteem op ziekten te bestrijden**  
  *Prof. dr. W.J.M. (Willem) Mulder (m), AMC - Medische Biochemie*  
  Immunotherapie stelt het immuunsysteem in staat om haar natuurlijke rol te vervullen, om ziekte te bestrijden. Dit voorstel richt zich op het ontwikkelen van nanobiologics die het recent ontdekte geheugen van het aspecifieke, aangeboren immuunsysteem (‘trained immunity’), programmeren om organaafstoting te voorkomen, of kanker te bestrijden.
• B cellen trainen om breed neutraliserende HIV antilistoffen te ontwikkelen
  Prof. dr. R.W. (Rogier) Sanders (m) AMC-UVA - medische microbiologie
  De meeste vaccins tegen virussen wekken beschermende antistoffen op. Dit lukt echter nog niet met de huidige vaccins tegen HIV. Sommige HIV geïnfecteerde mensen maken wel zulke beschermende antistoffen en deze patiënten gaan als voorbeeld dienen om een HIV vaccin te ontwikkelen.

Location VUmc
VENI
• Maag-slokarmkanker immuun voor therapie
  Dr. S. (Sarah), Derks (v), VUMC, Medische Oncologie
  De behandeling van maag-slokarmkanker vraagt om een nieuwe aanpak. Nieuwe immunotherapie lijkt veelbelovend, maar behoeft verbetering. De aanvraagster richt zich op het ontmaskeren van mechanismes die maag-slokarmkankers gebruiken om te ontsnappen aan het immuunsysteem, en deze te gebruiken voor de ontwikkeling van immunotherapie-versterkende middelen en zo de overleving te verbeteren.

2018
Location AMC
VIDI
• Op zoek naar de Achilles hiel van Hepatitis C virus
  Dr. C.J. (Janke) Schinkel (v), Amsterdam UMC, Locatie AMC
  Per jaar sterven er zo'n 500.00 mensen aan leverziekte veroorzaakt door hepatitis C virus. Om deze sterfte te verminderen is een vaccin nodig dat verdere verspreiding voorkomt. Door beter te begrijpen waarom sommige mensen, ondanks frequente blootstelling, nooit chronisch geïnfecteerd raken, kan een belangrijke stap gezet worden in vaccine ontwikkeling.
• Gesuikerde vetten vallen eiwitten lastig
  Dr. R.M. (Robbert) Spaapen (m), Amsterdam UMC, Locatie AMC
  Gaat hij uitzoeken of tumor cellen deze gesuikerde vetten gebruiken om onopgemerkt te blijven door eiwit communicatie te verstoren.

VIDI
• Natuurlijk wapen tegen chronische ontstekingen
  Dr. G. (Gijs) Kooij (m), Amsterdam UMC, locatie VUmc
  Chronische ontstekingen ontstaan doordat het natuurlijke proces dat ontstekingen in toom houdt (resolutie) niet optimaal functioneert. De onderzoeker wil uitvinden hoe dit komt om zo op een ‘lichaamseigen’ manier chronische ontstekingsziekten zoals multiple sclerosis aan te pakken.

12.5 Professor appointments
2017
Location AMC
• Joppe Hovius (AMC): hoogleraar Inwendige geneeskunde, lhv vector-overdraagbare infectieziekten
• Ronald van Vollenhoven (AMC): hoogleraar Reumatologie
- Joost Wiersinga (AMC): hoogleraar Inwendige geneeskunde, inb. translationele infectieziekten
- Michiel van Agtmael (VUmc): hoogleraar Farmacotherapieonderwijs

Location VUmc

- M. van Vugt: Internal Medicine, in particular community centered control of tropical infections
- N. de Vries: Reumatologie, i.h.b. de immuno-pathogenese van reumatoïde artritis and andere auto-immuunziekten
- Irene van der Horst (VUmc): Reumatologie, i.h.b. genderaspekten bij de musculoskeletale ontstekingsziekten
- Sergey Nezjentsev (VUmc): Translationele immunologie

12.6 Thesis

2017

Location AMC

- Alberts CJ: HPV in minority populations: Epidemiology and vaccination acceptability
- Anas AA: Cell-specific innate immunity in lung infection and inflammation
- Angiolilli C: Molecular mechanisms of histone deacetylases in rheumatoid arthritis fibroblast-like synoviocytes
- Arabkhazaeli A: Pediatric asthma and allergy; an epidemiological approach
- Avula T: Role of SH3 and BAR domains in fission yeast
- Bartelsman M: Point-of-care management of sexual transmitted infections
- Blokhuis C: Keeping an eye on the brain of perinatally HIV-infected children
- Boerma RS: Prevention, suppression, and resistance: Antiretroviral treatment for children with HIV in Sub-Saharan Africa
- Borgert MJ: Improving patient safety for the critically ill: The challenges of implementation
- Bos JC: Diagnosis and treatment of common infectious diseases in severely ill sub-Saharan African patients: Studies from a hospital floor
- Bruning AHL: Catching the common cold
- Canbaz D: The role of flame retardants in allergic responses to house dust mite
- Cohn-Hokke PE: Hereditary dementia, a clinical genetic perspective
- Cortjens B: Neutrophils in respiratory syncytial virus disease: Untangling the NET
- de Groot JC: Adult-onset eosinophilic asthma
- Derks M: Radical surgery for early stage cervical cancer
- de Rooij MFM: Targeting the BCR signalosome in B cell malignancies
- de Taeye SW: Stabilization of HIV-1 envelope glycoprotein trimers to induce neutralizing antibodies
- Dettling DS: The Post-Intensive Care Syndrome (PICS)
- Dhawan S: Neural regulation of innate and adaptive immunity in the gut
- Dietz SM: Connecting the dots: Monitoring strategies and long-term consequences of Kawasaki disease
- Doorenspleet ME: Standing out of the crowd: Adaptive immune cells in the pathogenesis and prediction of rheumatoid arthritis and IgG4-related disease
- Eberl S: Sedation outside the operation room
- Engelhard EAN: Outpatient HIV care in the Netherlands
- Erkens C: Evaluating the effectiveness of interventions for the prevention of tuberculosis in a low-incidence setting
- Gabriel TL: Lysosomal stress: a new player in perturbed lipid metabolism
- Gkourtsa A: Understanding the role of BAR and SH3 domain-containing proteins in fungi
- Golębski K: Regulation and cross-talk between environmental triggers of local immune responses in airway epithelial cells
- Hazendonk HCAM: Pharmacokinetically-guided dosing of clotting factor concentrates in bleeding disorders: towards individualization of treatment
- Herrera Moro Chao D: Glycosphingolipids and the central regulation of metabolism: Sugar analogues as research tools
• Huis In ’t Veld RAG: Riboregulation in Neisseria meningitidis
• Issa Y: Chronic pancreatitis: Novel concepts in diagnostics and treatment
• Jahfari S: Tick-borne Diseases: Opening Pandora’s Box
• Jansen AHP: Degrade or degenerate: Glial protein degradation in Huntington’s disease
• Janssen S: Improving management of HIV-infected patients in Africa
• Jong WMC: Inflammation and acute myocardial ischemia-reperfusion injury using a closed-chest mouse model
• Joore IK: Proactive HIV testing strategies in primary care
• Kadouch DJ: Through the looking glass: Confocal microscopy imaging of basal cell carcinoma
• Kooij FO: Improving peri-operative care using an anaesthesia information management system
• Kooij KW: Comorbidity and ageing in HIV infection
• Koopman FAC: Balancing the autonomic nervous system, towards new therapeutic options for rheumatoid arthritis?
• Langebeek N: Treatment adherence, health related quality of life and aging in HIV-1 infected patients
• Lankelma JM: The role of the intestinal microbiota in pneumonia and sepsis
• Leopold JH: Continuous glucose and exhaled breath analysis in the Intensive Care Unit
• Limperg PF: Growing up with hemophilia: health related quality of life and psychosocial functioning
• Maijer KI: Rheumatoid arthritis: From the at risk phases all the way up to the development of the disease
• Mari L: Barrett’s esophagus and esophageal adenocarcinoma: from molecular pathogenesis to novel therapeutic targets
• Marsman G: Factor VII-activating protease: Unraveling the release and regulation of dead cell nuclear damps
• Molenaar RJ: Towards personalised medicine for cancer: From initial therapy to follow-up
• Nagelkerke SQ: A field guide to human Fc-gamma receptors: Genetics, cellular expression and interaction with immunoglobulins
• Nederlof R: Mitochondrial hexokinase and ischemic sensitivity and metabolism of the heart
• Nguyen VT: Antimicrobial drug resistance at the human-animal interface in Vietnam
• Noordenbos T: The role of innate immune cells in tissue inflammation in spondyloarthritis
• Oei AL: Tumor cells can’t stand the heat: Boosting the effectiveness of hyperthermia in cervical carcinoma
• Olde Engberink RHG: Clinical impact of nonosmotic sodium storage
• Olthof PB: Enhancement of liver regeneration and liver surgery
• Oudeman J: Diffusion tensor imaging: A diagnostic tool for neuromuscular conditions
• Ouwerkerk W: A systems biology study to tailored treatment in chronic heart failure
• Peters A-L: Blood transfusion: Transfusion-related acute lung injury: back to basics
• Reshetova P: Use of prior knowledge in biological systems modelling
• Riool M: Novel antibacterial strategies to combat biomaterial-associated infection
• Ruizendaal Éé: Malaria in pregnancy: In search of tools for improved prevention
• Sahami S: New concepts in ulcerative colitis
• San Giorgi MRM: Recurrent Respiratory Papillomatosis - clinical course and psychosocial aspects
• Schimmel M: Sickle cell disease: Pathogenesis and biomarkers
• Schouten J: Head and heart in treated HIV infection
• Serpa Neto A: Lung-protective ventilation in intensive care unit and operation room: Tidal volume size, level of positive end-expiratory pressure and driving pressure
• Sins JWR: Therapeutic targets in sickle cell disease
• Smelov V: Urogenital and anal chlamydia trachomatis and human papillomavirus infections: epidemiological, diagnostic and public health aspects
• Smit KF: Organ protection by the noble gas helium
• Ssengooba W: Consequences of Mycobacterium tuberculosis genetic diversity in the context of HIV co-infection for laboratory diagnosis of tuberculosis in Africa
• Stelma F: Immune responses in hepatitis B and C virus infection
• Stiekema A: HE4: Clinical applications in gynaecological cancer
• Su T: Cognitive impairment and MRI-findings in patients with HIV on antiretroviral treatment
• Utsch Mendes Gouveia L: Mouse models of allergic inflammation: from allergic sensitization to immunotherapy
• van Attekum MHA: Formation of a tumor-supportive microenvironment in chronic lymphocytic leukemia: Addressing the reciprocal interactions in the CLL—T cell–macrophage triad
• van den Berg SM: A hot interaction between immune cells and adipose tissue
• van den Bogaart E: Visceral leishmaniasis - malaria co-infections: Epidemiological, immunological and parasitological aspects
• van der Bel Ré: Kidney oxygenation under pressure
• van der Leij C: Advanced MRI in inflammatory arthritis
• van der Leij F: Optimizing treatment of low risk breast cancer patients
• van der Ree MH: MicroRNA's in chronic hepatitis B and C virus infection
• Vieira Braga FA: Transcriptional control of cytotoxic lymphocytes
• Visser BJ: Fats & Fakes: Towards improved control of malaria
• Vriend LEM: A double-edged sword: Homologous recombination in genome maintenance and cancer treatment
• Wagemakers A: Tick-host-Borrelia interaction: Implications for host immunity and vaccination strategies
• Wang J: Evaluating medical tests and biomarkers: In primary studies and systematic reviews
• Westerhof GA: Adult-onset asthma: Predictors of clinical course and severity
• Wiewel MA: Host response and outcome of sepsis in the critically ill
• Willemse SB: Clinical studies on hepatitis B, C, and E virus infection
• Wind CM: Neisseria gonorrhoeae: testing, typing and treatment in an era of antimicrobial resistance
• Winkels H: The role of the co-stimulatory CD27-CD70 dyad in atherosclerosis
• Witteveen E: Intensive care unit-acquired weakness: Pathophysiology and diagnosis
• Zhao J: Gene-expression profiling to reveal pathogenic mechanisms in disease

Location VUMC

• Adema A: Dietary and Pharmacological Modification of FGF23 and Klotho in Patients with Chronic Kidney Disease
• Aleyd, E: FcaRI as therapeutic target to reduce IgA-induced neutrophil activation
• Bar-Ephraim, JE: Innate Lymphoid Cells in Human Peripheral Blood and Secondary Lymphoid Organs
• Baron R: Maternal Health and Prenatal Health Education in Midwife-led Primary Care
• Bomers M: A whiff of C-diff.: using scent detection to diagnose Clostridium difficile infection
• Boot M: Stress to progress. learning from antibiotic stress responses to accelerate tuberculosis drug discovery
• Braster, R: Manipulating macrophages: increasing the effectiveness in anti-cancer therapy
• Collignon, PJ: Antimicrobial Resistance: Using “One Health” to better control this life threatening and escalating international problem
• Corbin M: Mechanisms in the cellular defense against oxidative stress
• de Boer, YS: Immunogenetic and clinical aspects of autoimmune hepatitis
• de Bruin R: Nanobody based approaches for the therapeutic targeting of conserved T cell subsets in cancer
• de Crom, SCM: Enterovirus and human Parechovirus infections in children: clinical symptoms, diagnosis and prognosis
• de Jong, E: Markers and indices of infection in critically ill patients
• de Meij T: Microbiota and Flatography in Pediatric Gastrointestinal Disease
• Elander M: Type 1 diabetes in youth:. A psychosocial challenge
• Fujikschot W: Systemic Inflammation, Atherosclerosis and Coronary Thrombosis. Of Mice and Men
• Gorter R: Appendicitis in children: new insights into an old problem
• Havercamp G: Depressive symptoms in an ethnically Diverse cohort of chronic dialysis patients:. The role of patient characteristics, cultural and inflammatory factors
• Jelsma J: Lifestyle Counselling Intervention to prevent Gestational Diabetes Mellitus. The development and evaluation of a motivational interviewing lifestyle intervention among overweight and obese pregnant women across nine European countries
• Konijn, NPC: Long- and short-term outcomes of combination therapy & body composition in rheumatoid arthritis
• Kooi I: Applied bioinformatics: Genomics of human and murine retinoblastoma
• Kupreishvili K: Inflammation: a denoting factor in coronary artery disease and venous bypass graft failure.
• Lam J: Breast cancer: therapy and biomarker analysis
• Lanjouw, E: Chlamydia trachomatis: Clinical, bacterial, and host aspects of a silent love bug
• Liu Y: When East meets West. Comparative studies between neuromyelitis optica and multiple sclerosis through
• Luttmer, R: Genital HPV infections in women and men: Improving management strategies
• Meijer, B: Biomarkers and Thiopurines in IBD: when two worlds collide
• Molenaar N: Assessing adrenal dysfunction in the critically ill
• Njuguna F: Adherence with childhood cancer treatment in Kenya
• Reuland, EA: REBEL-ing against Resistance: REsistance to BEta-Lactam antibiotics due to beta-lactamases
• Roemer, MGM: Targetable genetic signatures of immune evasion in lymphoma
• Rondags S: HypoAware. A psychoeducational group intervention for people with type 1 and insulin-treated type 2 diabetes and problematic hypoglycaemia
• Samuels, S: The role of the immune system in cervical cancer
• Sewing, ACP: Disease models and translational research in Diffuse Intrinsic Pontine Glioma
• van Beurden, YH: The intestinal microbiota disrupted & restored: On Clostridium difficile infection and fecal donation

2018

Location AMC

• Aarts SABM: CD40 in MS: Multiple sclerosis and the metabolic syndrome.
• Abbink P: Development and immune correlates of Zika virus vaccines.
• Baranova E: Precision medicine: steps towards improving treatment with vitamin K antagonists and ACE-inhibitors.
• Bartels RH: Children with severe acute malnutrition: New diagnostic and treatment strategies.
• Borgonjen RJ: The perfect guideline, a utopia? Quality of dermatological guidelines: Current status and future improvements.
• Claushuis TAM: The role of platelets in sepsis.
• Costerus JM: Lumbar puncture in bacterial meningitis.
• Cremers AL: TB truths: Patients’ experience with tuberculosis and healthcare in sub-Saharan Africa.
• de Vrieze NHN: Lymphogranuloma venereum among men who have sex with men.
• de Winter JJH: Recognizing axial spondyloarthritis.
• Demirkaya N: In search of retinal biomarkers for HIV related neurodegeneration: The AGEhIV and NOVICE studies.
• d’Hooghe JNS: Bronchial Thermoplasty in severe asthma.
• Donkervoort SC: A journey to improve treatment outcome of laparoscopic cholecystectomy.
• Duijvis NW: IBD therapy redesigned: From established therapeutic regimens to prospective epigenetic approaches.
• Ergin B: The renal microcirculation as a target for the treatment of acute kidney injury in models of critical illness.
• Genc CG: Recurrence and survival of pancreatic neuroendocrine tumors.
• Gerbens LAA: A bird’s-eye view on eczema: Harmonising outcomes and datasets for atopic eczema.
• Hännlein JS: Human lymph node stromal cells and their role in rheumatoid arthritis.
• Hananta YPY: Gonorrhoea in Indonesia and the Netherlands: Diagnostics and antimicrobial resistance.
• Harris VC: The role of the intestinal microbiome in rotavirus vaccine immunogenicity: exploration from correlation to causation.
• Hekking P-PW: Severe Asthma: From burden to biology.
• Hertoghs N: Molecular mechanisms controlling dendritic cell functions in HIV-1 and Ebolavirus infection.
• Ho, CKY: The phylodynamics of hepatitis C virus in a clinical and public health context.
• Hoffmans R: Epidemiology and management of rhinosinusitis.
• Horbach SER: Management of vascular malformations: Diagnosis, treatment strategies & outcome measurement.
• Jansen MPB: The role of platelets in acute kidney injury.
• Kabaghe AN: Improving access to malaria prevention and treatment, and surveillance in rural Malawi.
• Kapata N: Tuberculosis in Zambia: Defining the status quo and assessing ways to improve prevention, diagnosis and service delivery.
• Karelehto E: On parechovirus prevalence and pathogenesis.
• Keizer MP: Complement activation defects in pediatric oncology patients: Hidden factors contributing to the increased risk of infection.
• Koenis DS: Nuclear receptors and their co-factors in hematological and inflammation-driven disorders.
• Loijmans RJB: Exacerbations of asthma: Definition, prediction and prevention.
• Lommer JE: Coloring the spots: Diagnosis, measurement instruments and treatment in vitiligo.
• Loomans JI: Folding to function: Rising insights in nonsevere hemophilia A and DDAVP treatment.
• Maagdenberg H: Precision anticoagulation with vitamin K antagonists in children.
• Maracle CX: NF-κB signaling in endothelial cells: Identification of NIK as a therapeutic target.
• Marra E: Anal HPV infection & disease: common and preventable, but hard to treat.
• Nagasawa M: Development of human plasmacytoid dendritic cells and innate lymphoid cells.
• Owusu EDA: Malaria, HIV and sickle cell disease in Ghana: Towards tailor-made interventions.
• Persoon S: Physical exercise in patients treated with hematopoietic stem cell transplantation.
• Peters Sengers H: Challenging frontiers in renal transplantation.
• Polderman JAW: Perioperative hyperglycaemia and its treatment in patients with diabetes mellitus.
• Pouw RB: Setting the scale: The balance between complement factor H and its related proteins in health and disease.
• Roekevisch E: Systemic Treatment in Atopic Dermatitis', Doctor of Philosophy, University of Amsterdam.
• Roth JM: Moving towards improved malaria control: The position of molecular diagnostics and evaluating the efficacy of a novel treatment option.
• Scheenstra MR: Studies on Gata1 and PU.1 in dendritic cells: Mice are not human.
• Schilderink R: Epigenetic mechanisms regulating the inflammatory response.
• Siegenbeek van Heukelom ML: Anal squamous intraepithelial lesions in HIV+ MSM.
• Smeets MWJ: Erythrocytes and von Willebrand Factor in Venous Thrombosis.
• Stokhuijzen E: Hemostasis: Factors that matter.
• Tammaro A: Immune-mediated mechanisms of (mal)adaptive renal tissue repair.
• Torrents de la Peña A: Structure-based stabilization of HIV-1 trimer vaccines.
• Tripura R: The asymptomatic parasite reservoir and targeted mass drug administration in the context of accelerated malaria elimination in western Cambodia.
• van den Boom W: Casual sex, risk and context: HIV risk-reduction strategies among men who have sex with men.
• van Dijk AH: Evidence based medicine in complicated and uncomplicated gallstone disease.
• van Dijk S: Treatment of acute diverticulitis and appraisal of evidence.
• van Grinsven J: Optimizing the step-up approach for infected necrotizing pancreatitis.
• van Hattem JM: Unwanted souvenirs: Travel-related acquisition of antibiotic-resistant Enterobacteriaceae and enteric pathogens.
• van Santen DK: Epidemiological studies on viral infections and co-infections: Human immunodeficiency virus, hepatitis C virus and human papillomavirus.
• van Spornings E: The osseous external auditory canal: Surgery, shape, and sound.
• van Tuijn CFJ: Sickle cell disease: Evaluation and management of disease burden.
• van Veen KEB: Bacterial meningitis in immunocompromised patients.
• Versteeg B: Chlamydia trachomatis: Insights on genetics, molecular epidemiology, diagnostics and treatment, and host-pathogen interactions.
• Waasdorp M: Protease-activated receptors in diabetic nephropathy and renal fibrosis.
• Zhang X: The zebrafish embryo as a new model for biomaterial-associated infection and novel treatment strategies.

Location VUMc

• Alam N: Improving the acute care for critically ill patients: Consider the chain as a whole.
• Brinkman DJ: Rational Prescribing in Europe: Are future doctors well prepared?
• Chandrupatla DMSH: Novel experimental Therapeutics and PET Imaging of Activated Macrophages in Rheumatoid Arthritis.
• Chandrupatla DMSH: Novel Experimental Therapeutic and PET Imaging of Activated Macrophages in Rheumatoid Arthritis.
• Doornweerd S: Obesity and Food Reward Regulation by the Brain: Genetic and Environmental Factors.
• Farhat K: Biocompatibility and Pharmacological targeting possibilities for improving Peritoneal Dialysis.
• Heslinga SC: Cardiovascular disease in rheumatic diseases: A focus on cardiac function in Ankylosing Spondylitis.
• Hooi DJ: HPV and cervical cancer on Curaçao: towards implementation of an integrated prevention programme.
• Monsuur HN: Understanding endothelial cell behavior for regenerative medicine strategies.
• Ramayanti O: Epstein-Barr virus diagnostic and therapeutic opportunities in nasopharyngeal carcinoma.
• Schalkwijk AAH: Childhood Obesity: Who cares?
• Schrijver EJM: HARPOON: Haloperidol prophylaxis for delirium prevention.
• Schutte T: Learning in a Student-Run Clinic: A new concept to improve medical education in pharmacotherapy.
• Smit B: The cardiovascular effects of hyperoxia.
• Tonneijck L: Incretin-based drugs and the kidney in type 2 diabetes: Moving from safety to protection.
• van Asten SAV: Diagnosing and monitoring diabetic foot osteomyelitis.
• van Beers CAJ: Continuous Glucose Monitoring: IN CONTROL of Type 1 Diabetes.
• van der Born D: Fluorine-18 Labelled Building Blocks for PET Tracer Synthesis: Overview and Recent Advances in 18F-Trifluoromethylation.
• van Leeuwen LM: Tuberculous meningitis at the host-pathogen interface.
• Willeboordse F: Optimising clinical medication reviews in primary care.
• Woerdeman JP: Obesity, microvascular function and red wine polyphenols.
• Woudstra L: Inflammation in cardiac disease: towards improving diagnosis and new therapies.