



**Amsterdam UMC**  
Universitair Medische Centra

**Amsterdam  
Infection &  
Immunity  
Institute**

**Facts & Figures  
2017/2018**

## **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.

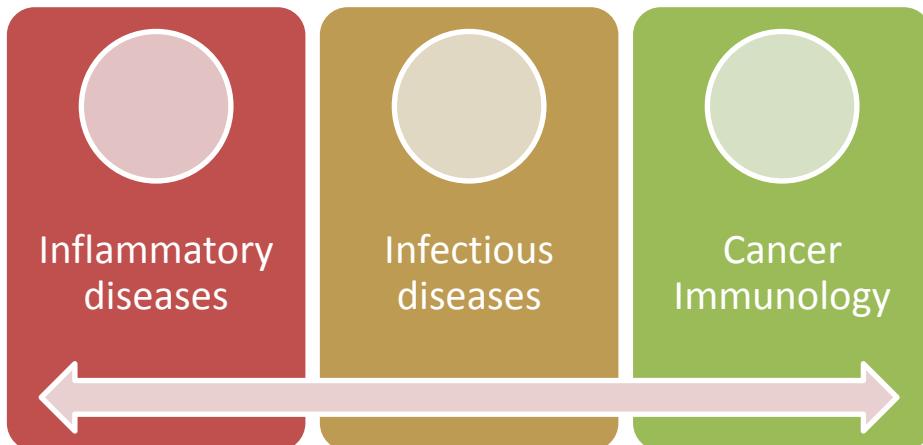
The combined centers employ more than 1000 researchers, including more than 500 PhD students. The joint output per

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 Gruyl  
VUmc



Rosalie Luiten  
AMC

## 1.3 AI&II 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

#### 2<sup>nd</sup> 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 retreat

- 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.

### 02 building

Full establishment of the resolution of inflammation research line in the 02 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

### 3<sup>e</sup> 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. It is alarming that new tuberculosis bacterial strains are now spreading worldwide which, due to a single mutation, no longer produce all these proteins and have therefore become hyper virulent. 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

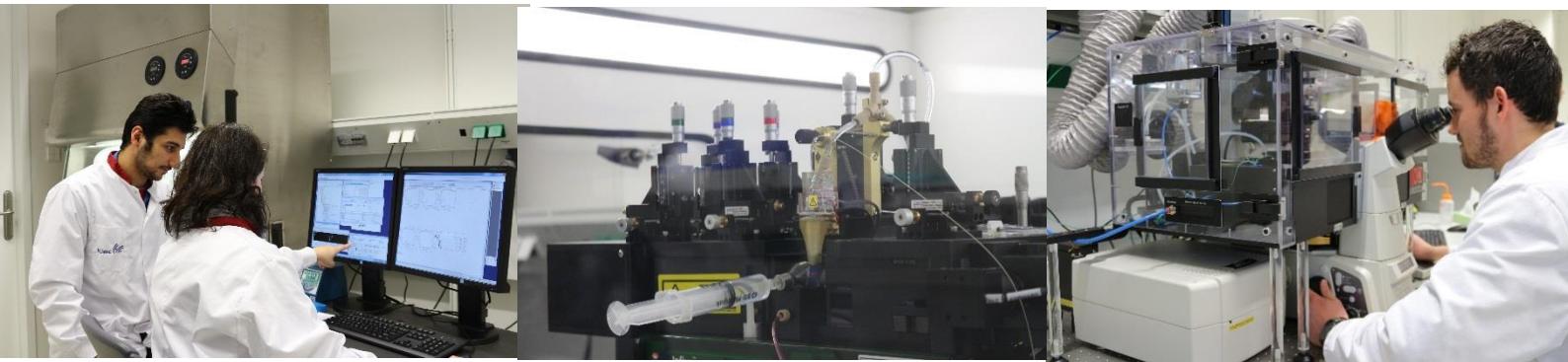
On Friday, November 2, 2018, the Clinical Immunology and Rheumatology Department of AMC and Rheumatology Department of VUmc merged. Together they form the new department of Rheumatology and Clinical Immunology at Amsterdam UMC.

### 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

### Projects started in 2017

Location VUmc:

Total amount of funding: about 15.000.000

Location AMC:

Total amount of funding: about 33.500.000

### Projects started in 2018

Location VUmc:

Total amount of funding: about 4.000.000

Location AMC:

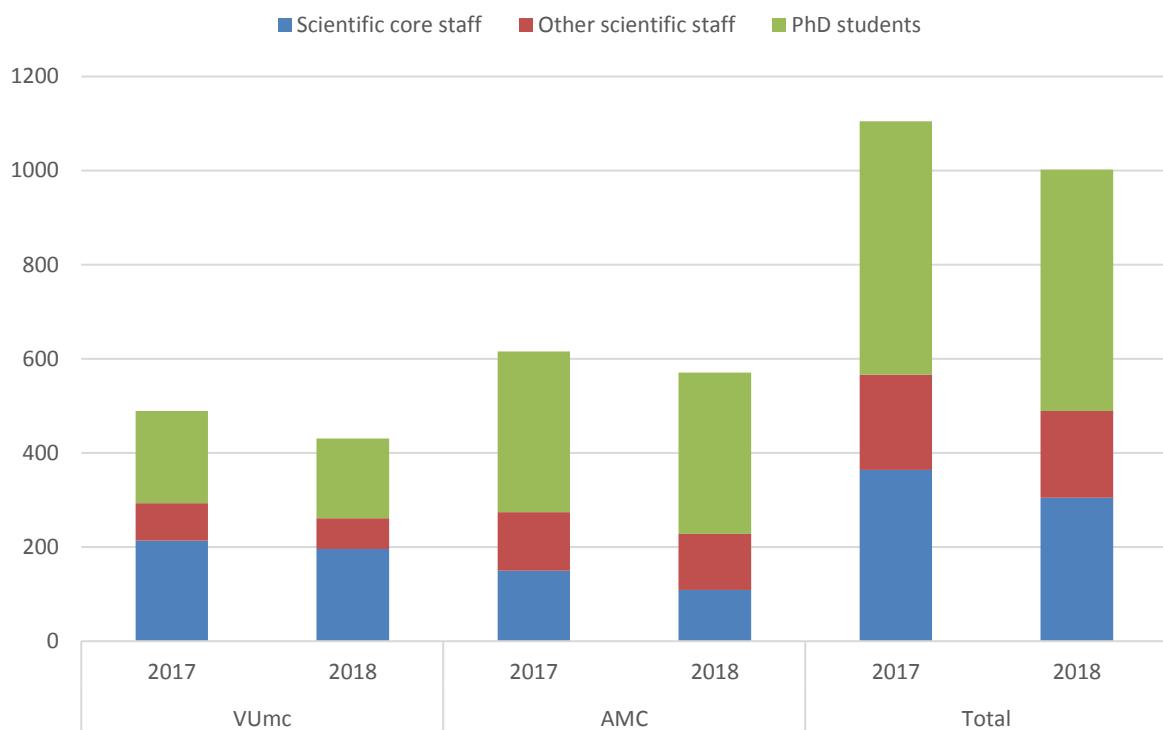
Total amount of funding: about 41.000.000

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 #

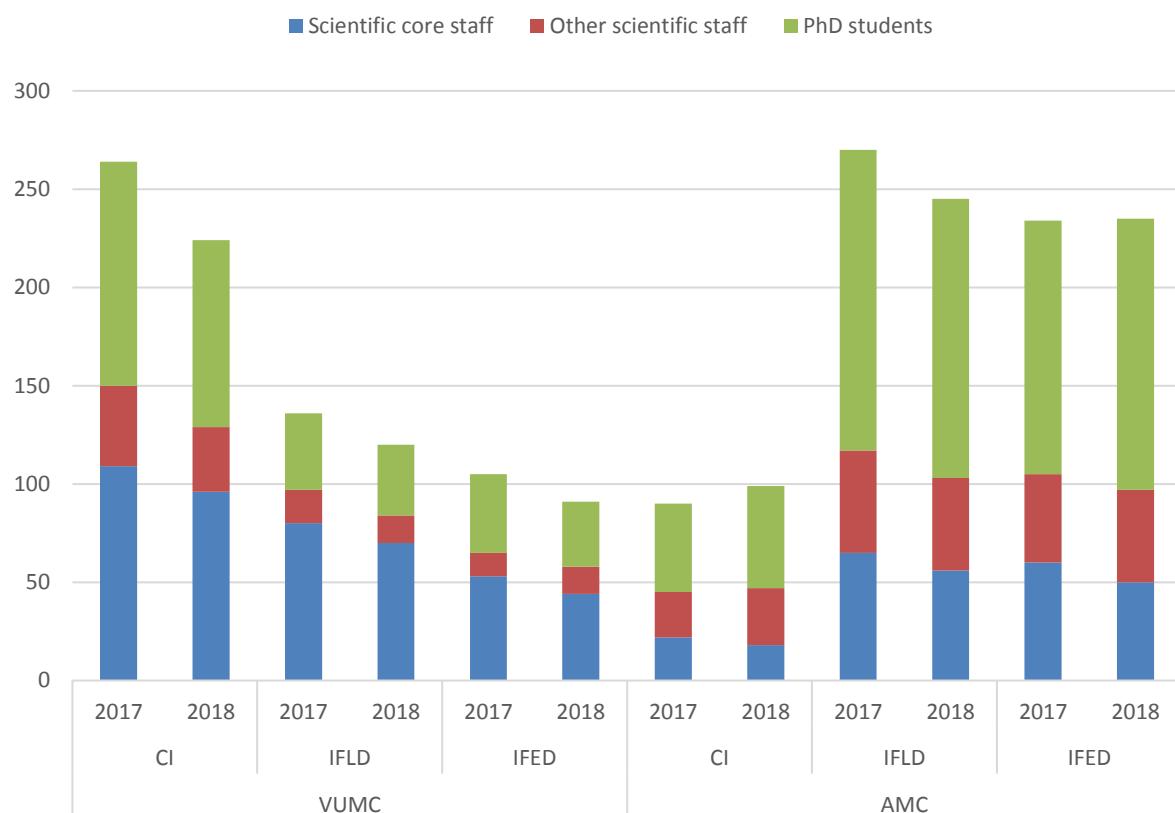


	VUmc		AMC		Total	
	2017	2018	2017	2018	2017	2018
Scientific core staff	214	196	150	109	364	305
Other scientific staff	79	65	124	119	203	184
PhD students	196	170	342	343	538	513
Total researchers	489	431	616	571	1105	1002

**Figure 1a: Research staff # per program**

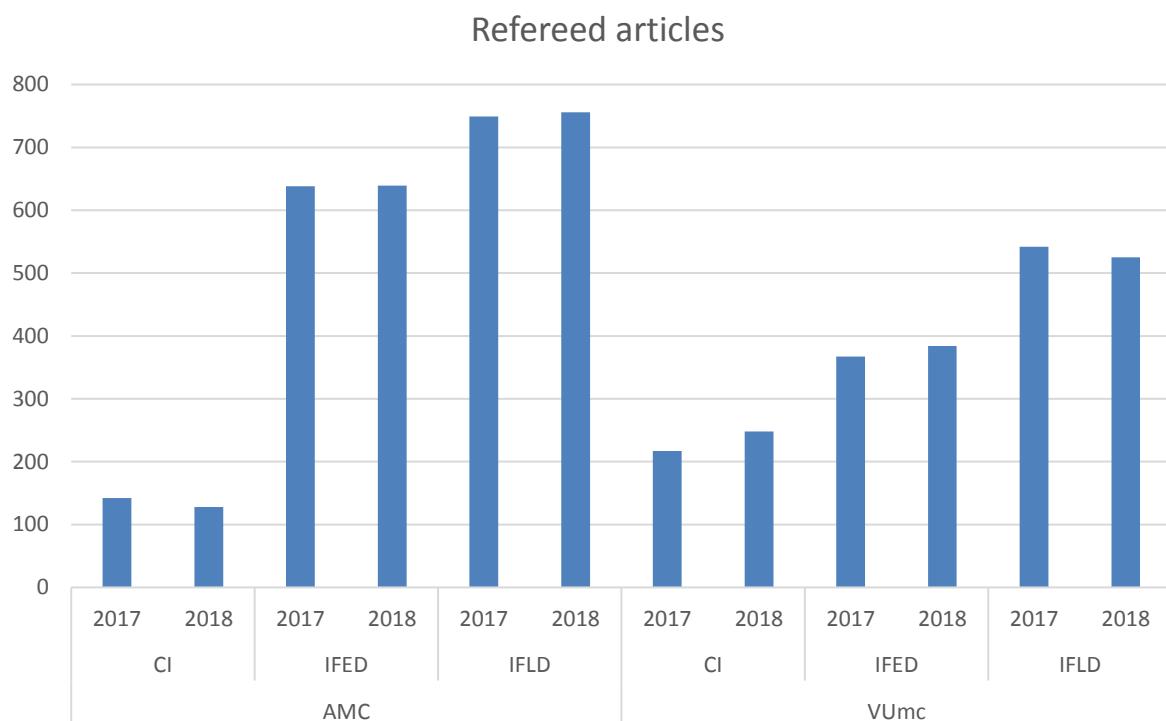
CI: Cancer Immunology  
 IFED: Infectious Diseases  
 IFLD: Inflammatory Diseases

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



	VUmc						AMC					
	CI		IFLD		IFED		CI		IFLD		IFED	
	2017	2018	2017	2018	2017	2018	2017	2018	2017	2018	2017	2018
Scientific core staff	109	96	80	70	53	44	22	18	65	56	60	50
Other scientific staff	41	33	17	14	12	14	23	29	52	47	45	47
PhD students	114	95	39	36	40	33	45	52	153	142	129	138
Total research staff	264	224	136	120	105	91	90	99	270	245	234	235

**Table 2: Main categories of research output**



	VUmc							
	CI		IFED		IFLD		total	
	2017	2018	2017	2018	2017	2018	2017	2018
Refereed articles	217	248	367	384	542	525	803	856
Non-refereed articles	4	11	13	13	11	20	22	32
Scientific publications <sup>1</sup>	7	2	3	1	15	3	23	6
Professional publications <sup>2</sup>	7	8	14	14	28	21	33	26
Other research output <sup>3</sup>	15	13	22	20	49	25	58	37
PhD theses	7	3	9	10	21	15	34	23

	AMC							
	CI		IFED		IFLD		total	
	2017	2018	2017	2018	2017	2018	2017	2018
Refereed articles	142	128	638	639	749	756	1286	1315
Non-refereed articles	17	4	41	41	52	36	84	70
Scientific publications <sup>1</sup>		1	2	3	-	1	3	6
Professional publications <sup>2</sup>	2	6	21	23	30	25	44	54
Other research output <sup>3</sup>	-	1	3	7	6	10	6	15
PhD theses	3	5	34	41	17	43	54	67

	Total AMC & VUmc	
	2017	2018
Refereed articles	1921	2029
Non-refereed articles	106	102
Scientific publications <sup>1</sup>	26	12
Professional publications <sup>2</sup>	77	80
Other research output <sup>3</sup>	64	52
PhD theses	88	90

<sup>1</sup> Books, chapters, reports

<sup>2</sup> Publications about results of scientific research aimed at professionally interested people

<sup>3</sup> 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

van der Ree MH, de Vree JM, Stelma F, Willemse S, van der Valk M, Rietdijk S, Molenkamp R, Schinkel J, van Nuenen AC, Beuers U, Hadi S, Harbers M, van der Veer E, Liu K, Grundy J, Patick AK, Pavlicek A, Blem J, Huang M, Grint P, Neben S, Gibson NW, Kootstra NA, Reesink HW. Safety, tolerability, and antiviral effect of RG-101 in patients with chronic hepatitis C: a phase 1B, double-blind, randomised controlled trial. *Lancet*, 2017, 389; 709-717.

Gringhuis SI, Hertoghs N, Kaptein TM, Zijlstra-Willems EM, Sarrami-Fooroshani R, Sprokholt JK, van Teijlingen NH, Kootstra NA, Booiman T, van Dort KA, Ribeiro CMS, Drewniak A, Geijtenbeek TBH. HIV-1 blocks the signaling adaptor MAVS to evade antiviral host defense after sensing of abortive HIV-1 RNA by the host helicase DDX3. *Nature Immunology*, 2017; 18: 225-235.

de Bruin M, Oberjé EJM, Viechtbauer W, Nobel H-E, Hiligsmann Më, van Nieuwkoop C, Veenstra J, Pijnappel FJ, Kroon FP, van Zonneveld L, Groeneveld PHP, van Broekhuizen M, Evers SMAA, Prins JM.

Effectiveness and cost-effectiveness of a nurse-delivered intervention to improve adherence to treatment for HIV: a pragmatic, multicentre, open-label, randomised clinical trial. *Lancet Infectious Diseases*, 2017; 17: 595-604.

Heuvelings CC, de Vries SG, Greve PF, Visser BJ, Bélard S, Janssen S, Cremers AL, Spijker Ré, Shaw B, Hill RA, Zumla A, Sandgren A, van der Werf MJ, Grobusch MP. Effectiveness of interventions for diagnosis and treatment of tuberculosis in hard-to-reach populations in countries of low and medium tuberculosis incidence: a systematic review. *Lancet Infectious Diseases*, 2017: e144-e158.

de Vries SG, Cremers AL, Heuvelings CC, Greve PF, Visser BJ, Bélard S, Janssen S, Spijker Ré, Shaw B, Hill RA, Zumla A, van der Werf MJ, Sandgren A, Grobusch MP. Barriers and facilitators to the uptake of tuberculosis diagnostic and treatment services by hard-to-reach populations in countries of low and medium tuberculosis incidence: a systematic review of qualitative literature. *Lancet Infectious Diseases*, 2017; e128-e143.

## 11.2 2018

Cuadrado, E, van den Biggelaar, M, de Kivist, S, Chen, Y, Slot, M, Doubal, I, Meijer, A, van Lier, RAW, Borst, J & Amsen, D 2018, 'Proteomic Analyses of Human Regulatory T Cells Reveal Adaptations in Signaling Pathways that Protect Cellular Identity', *Immunity*, vol. 48, no. 5, pp. 1046-1059.e6.

de Boer, M, van Leeuwen, FE, Hauptmann, M, Overbeek, LIH, de Boer, JP, Hijmering, NJ, Sernee, A, Klazen, CAH, Lobbes, MBI, van der Hulst, RRWJ, Rakhorst, HA & de Jong, D 2018, 'Breast implants and the risk of anaplastic large-cell lymphoma in the breast', *JAMA Oncology*, vol. 4, no. 3, pp. 335-341.

Harris, VC, Haak, BW, Handley, SA, Jiang, B, Velasquez, DE, Hykes, BL, Droit, L, Berbers, GAM, Kemper, EM, van Leeuwen, EMM, Boele van Hensbroek, M & Wiersinga, WJ 2018, 'Effect of Antibiotic-Mediated Microbiome Modulation on Rotavirus Vaccine Immunogenicity: A Human, Randomized-Control Proof-of-Concept Trial', *Cell host & microbe*, vol. 24, no. 2, pp. 197-207.e4.

Hubers, LM, Vos, H, Schuurman, AR, Erken, R, Oude Elferink, RP, Burgering, B, van de Graaf, SFJ & Beuers, U 2018, 'Annexin A11 is targeted by IgG4 and IgG1 autoantibodies in IgG4-related disease', *Gut*, vol. 67, no. 4, pp. 728-735.

Landewé, R, Sieper, J, Mease, P, Inman, RD, Lambert, RG, Deodhar, A, Marzo-Ortega, H, Magrey, M, Kiltz, U, Wang, X, Li, M, Zhong, S, Mostafa, NM, Lertratanakul, A, Pangan, AL & Anderson, JK 2018, 'Efficacy and safety of continuing versus withdrawing adalimumab therapy in maintaining remission in patients with non-radiographic axial spondyloarthritis (ABILITY-3): a multicentre, randomised, double-blind study', *Lancet*, vol. 392, no. 10142, pp. 134-144.

Salerno, F, Engels, S, van den Biggelaar, M, van Alphen, FPJ, Guislain, A, Zhao, W, Hodge, DL, Bell, SE, Medema, JP, von Lindern, M, Turner, M, Young, HA & Wolkers, MC 2018, 'Translational repression of pre-formed cytokine-encoding mRNA prevents chronic

activation of memory T cells', *Nature immunology*, vol. 19, no. 8, pp. 828-837.

Scicluna, BP, Wiewel, MA, van Vught, LA, Hoogendoijk, AJ, Klarenbeek, AM, Franitzza, M, Toliat, MR, Nürnberg, P, Horn, J, Bonten, MJ, Schultz, MJ, Cremer, OL & van der Poll, T 2018, 'A Molecular Biomarker to Assist in Diagnosing Abdominal Sepsis Upon Intensive Care Unit Admission', *American journal of respiratory and critical care medicine*, vol. 197, no. 8, pp. 1070-1073.

Seymour, JF, Kipps, TJ, Eichhorst, B, Hillmen, P, D'Rozario, J, Assouline, S, Owen, C, Gerecitano, J, Robak, T, de la Serna, J, Jaeger, U, Cartron, G, Montillo, M, Humerickhouse, R, Punnoose, EA, Li, Y, Boyer, M, Humphrey, K, Mobasher, M & Kater, AP 2018, 'Venetoclax-rituximab in relapsed or refractory chronic lymphocytic leukemia', *New England journal of medicine*, vol. 378, no. 12, pp. 1107-1120.

van Brunschot, S, van Grinsven, J, van Santvoort, HC, Bakker, OJ, Besselink, MG, Boermeester, MA, Bollen, TL, Bosscha, K, Bouwense, SA, Bruno, MJ, Cappendijk, VC, Consten, EC, Dejong, CH, van Eijck, CH, Erkelens, WG, van Goor, H, van Grevenstein, WMU, Haveman, JW, Hofker, SH, Jansen, JM, Lame'ris, JS, van Lienden, KP, Meijssen, MA, Mulder, CJ, Nieuwenhuijs, VB, Poley, JW,

Quispel, R, de Ridder, RJ, Ro'mkens, TE, Scheepers, JJ, Schepers, NJ, Schwartz, MP, Seerden, T, Spanier, BWM, Straathof, JWA, Strijker, M, Timmer, R, Venneman, NG, Vleggaar, FP, Voermans, RP, Witteman, BJ, Gooszen, HG, Dijkgraaf, MG & Fockens, P 2018, 'Endoscopic or surgical step-up approach for infected necrotising pancreatitis: A multicentre randomised trial', *The Lancet*, vol. 391, no. 10115, pp. 51-58.

van der Heijde, DS, Baraliakos, X, Gensler, LS, Maksymowych, WP, Tseluyko, V, Nadashkevich, O, Abi-Saab, W, Tasset, C, Meuleners, L, Besuyen, R, Hendrikx, T, Mozaffarian, N, Liu, K, Greer, JM, Deodhar, A & Landewé, R 2018, 'Efficacy and safety of filgotinib, a selective Janus kinase 1 inhibitor, in patients with active ankylosing spondylitis (TORTUGA): results from a randomised, placebo-controlled, phase 2 trial', *Lancet*, vol. 392, no. 10162, pp. 2378-2387.

van Vollenhoven, RF, Hahn, BH, Tsokos, GC, Wagner, CL, Lipsky, P, Touma, Z, Werth, VP, Gordon, RM, Zhou, B, Hsu, B, Chevrier, M, Triebel, M, Jordan, JL & Rose, S 2018, 'Efficacy and safety of ustekinumab, an IL-12 and IL-23 inhibitor, in patients with active systemic lupus erythematosus: results of a multicentre, double-blind, phase 2, randomised, controlled study', *Lancet*, vol. 392, no. 10155, pp. 1330-1339.

# 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

Topic	Medium	Name source	Date	URL <a href="#">website</a>	Researcher
Het vakgebied life sciences vraagt specifieke ICT-expertise: Samen bouwen aan een nieuwe onderzoeksWereld	internet		1-12-2017		Belien J
Gold medal life time achievement	Newspaper	Eindhovens dagblad	27-9-2017	<a href="#">website</a>	Castelijns JA
Gold medal life time achievement	Magazine	Weekblad voor Ouder Amstel	27-9-2017		Castelijns JA
Gold medal life time achievement	Magazine	Spui Magazine	19-12-2017	<a href="#">website</a>	Castelijns JA
Gold medal life time achievement	Magazine	Memorad	27-9-2017	<a href="#">website</a>	Castelijns JA
local CpG in early-stage melanoma	news paper and lots of news sites -like nu.nl and Interview for Dutch public radio NPO1 “Radio 1 journaal”, 2 oktober 2017	Algemeen Dagblad	2-10-2017	<a href="#">website</a>	de Gruyl T
De anatomische les voor middelbare scholieren	college		2-11-2017		de Vries HE
Bezoek van KWF en donateurs aan mijn groep			22-12-2017		den Haan J
De ins en outs van colitis na immuuncheckpointblokkade	internet	Immunoncologie.nl	1-2-2017		Neefjes-Borst A
Research into scientific misconduct	Internet	Retraction Watch	29-9-2017	<a href="#">website</a>	Peeters CFW
Chromium 6 toxicology	internet en public domain	TNO	1-7-2017	<a href="#">website</a>	Rustemeyer T
Allergietesten	internet	NVDV	1-6-2017	<a href="#">website</a>	Rustemeyer T
Re-intergratie	internet and published on paper among all Dutch medical specialists	Federatie Medische Specialisten	1-9-2017	<a href="#">website</a>	Rustemeyer T
Handeczeem	Bijblijven	Springer Verlag	1-9-2017	<a href="#">website</a>	Rustemeyer T
Allergisch voor shampoo	Television	AvroTros	21-3-2017	<a href="#">website</a>	Rustemeyer T
Alpe d'Huizes grant	Lifv & internet	KWF	29-5-2017	<a href="#">website</a>	Steenbergen R
Alpe d'Huizes grant	Radio	KWF	2-6-2017	<a href="#">website</a>	Steenbergen R
Alpe d'Huizes grant	Facebook	KWF	29-5-2017	<a href="#">website</a>	Steenbergen R
VIVA 400	VIVA magazine		23-11-2017	<a href="#">website</a>	Themeli M
VIVA 400	ellines.com		1-6-2017	<a href="#">website</a>	Themeli M
Genetic basis for alloimmunisation in SCD	Blood	Editorial (Blood Inside)	1-11-2017	-	van den Berg TK
M/V verschillen in geneesmiddelen	Volkskrant		27-11-2017		van der Horst-Bruinsma
Gender verschillen in behandeling reumatische ziekten		Publieksdag alliantie gender Amersfoort	2017		van der Horst-Bruinsma
Gender verschillen in behandeling reumatische ziekten		Publieksdag reumafonds. Leiden	2017		van der Horst-Bruinsma
Immunotherapie. Extra middel in de strijd tegen kanker	Internet	Instant Magazine		<a href="#">website</a>	van Kooyk Y
Cancer Immunotherapy (by Lenneke Cornelissen)	popular scientific magazine	Science Vie	1-6-2017		van Vliets S
Establishment of the ‘VUmc Women in Science’. Funding to promote women in science. Female PhD's can apply for money to attend conferences					van Vliet S

Antibiotica niet bij elk wissewasje'	Radio	BNR Nieuwsradio	27-7-2017	<a href="#">website</a>	Vandenbroucke-Grauls C
Antibioticakur afmaken is niet altijd nodig	Television	NOS Nieuwsuur	27-7-2017	<a href="#">website</a>	Vandenbroucke-Grauls C

## 2018

Topic	Medium	Name source	Date	URL	Researcher
Presentation KWF volunteers	Presentation	KWF	20-9-2018		den Haan J
Vetblaasjesvaccin tegen alveesklierkanker	Interview	KWF	10-4-2018		den Haan J
Recent findings in the field of HIV research and the impact of new HIV therapies	Interview	Symposium Power of Love: de leukste dag van het jaar om HIV te hebben - Koninklijk Theater Carré			Geijtenbeek T en Ribero C
Speeksel moet brandwond sneller genezen	Interview	RTL nieuws	27-9-2019		Gibbs S
Brandwonden genezen met eigen speeksel	Interview	NPO radio 2	27-9-2018		Gibbs S
Brandwonden genenezen met eigen speeksel	Interview	NPO radio 1	27-9-2019		Gibbs S
Onderzoek naar snellere genezing brandwond met speeksel	Interview	Parool	27-9-2019		Gibbs S
Onderzoek naar genezing brandwonden met speeksel	Interview	NH nieuws	27-9-2019		Gibbs S
Nederlands onderzoek naar snellere genezing brandwonden met speeksel	Interview	HLN	27-9-2018		Gibbs S
Snellere genezing brandwond met speeksel	Interview	Telegraaf	27-9-2018		Gibbs S
Brandwond geneest sneller met speeksel	Interview	Skipr	27-9-2018		Gibbs S
Brandwonden mogelijk te genezen met eigen speeksel	Interview	Nederlands dagblad	27-9-2018		Gibbs S
Onderzoek naar speeksel als brandwondenmedicijn	Interview	Nos.nl	27-9-2018		Gibbs S
Sneller genezing brandwond met speeksel	Interview	Panorama: gezond	27-9-2018		Gibbs S
Onderzoekers bekijken effect speeksel brandwonden	Interview	NU.nl	27-9-2018		Gibbs S
Kan speeksel zorgen voor snellere genezing brandwonden?	Interview	Metrotome	27-9-2018		Gibbs S
Werkt kusje erop ook bij brandwonden	Interview	Trouw	27-9-2018		Gibbs S
Snellere genezing brandwond met speeksel	Interview	Hart van Nederland	27-9-2018		Gibbs S
Werkt 'kusje erop' ook bij brandwonden? Het zou een goedkoop medicijn kunnen zijn	Interview	De Morgen	27-9-2018		Gibbs S
Snellere genezing brandwond met speeksel	Interview	MSN	27-9-2018		Gibbs S
Eigen speeksel op brandwond	Interview	Reformatorisch Dagblad	27-9-2018		Gibbs S
Promotion work to general public	internet	scientistwanted.nl		<a href="#">website</a>	Heineke M
New research to patients with diabetic foot infections	Website	diabetesgeneeskunde.nl	22-6-2018		Peters E
Diabetic foot infection	Interview		22-2-2018		Peters E
ADA update diabetic foot infection	Interview	diabetesgeneeskunde.nl	19-6-2018		Peters E
TBC de wereld uit	Magazine	AMC magazine	9-12-2018		Tutu van Furth M
Feiten en fabels over kanker	Journal	Libelle	8-8-2018		van Egmond M
Ons afweersysteem: Hoeder, mediator en verrader Immunologie	Journal	Biowetenschappen en maatschappij	3-9-2018		van Egmond M
Glyco-immune strategy for Scientific American	Expert comment	Scientific American	20-11-2018		van Kooyk Y
The tumour glyco-code as a novel immune checkpoint for immunotherapy	Journal	Nature	12-3-2018		van Kooyk Y

## 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**

Name award/honor	Awarded by	Date	Place Ceremony	Researcher
Chulabhorn Award	Chulabhorn Institute	18-12-2017	Bangkok	Brakenhoff R
Poster price	Gordon Research Seminar - Microbial Adhesion and Signal Transduction	23-7-2017	Salve Regina University in Newport RI United States	Burggraaf MJ
Gold medal Life time achievement	European Society of head and neck radiology	29-9-2017	Lisbon	Castelijns JA
PhD award to my PhD student D. van Dinther	Dutch Tumor Immunology meeting	1-6-2017	Breukelen	de Haan J
Guest Professor, Hebei General Hospital, Shijiazhuang, China	Hebei General Hospital, Shijiazhuang, China	1-4-2017	Hebei General Hospital, Shijiazhuang, China	Dekker J
Best Presentation Award - Mesothelioma Applied Research Foundation, US	Mesothelioma Applied Research Foundation, US	28-3-2017	National Cancer Institute, Bethesda, US	Giovanetti E
Best poster presentation	Amsterdam Neuroscience Annual Meeting	13-10-2017	Amsterdam Arena	Jim KK
Outstanding poster award	12th ENII EFIS EJI summer school		Italy	Nadafi R
EHA CRTH winner and participant	EHA	1-11-2017	via EHA - brussel, Rome and EHA congres in Sweden	Nijhof I
1st Poster Prize VUmc Science Exchange Day 2017	Vaste Commissie Wetenschap Vumc	29-9-2017	Vumc, Amsterdam	Peeters CFW
Scientific Director for Advanced Studies in Lung Cancer	University of Zurich and the European School of Oncology	1-12-2017		Senan S
Chair, Advanced Radiation Therapy Committee	International Association for the Study of Lung Cancer	1-12-2017		Senan S
Honorary fellow American College of Radiology	American College of Radiology	21-5-2017	Washington DC	Slotman B
Jacob I Fabrikant award	International Stereotactic Radiosurgery Society	1-6-2017	Montreux, Switzerland	Slotman B
Selected co-president EUROGIN	EUROGIN	8-12-2017	Amsterdam	Snijders PJF
VIVA-400 knappe koppen	VIVA	23-11-2017	Undercurrent.Papaverweg 265	Themeli M
Besloten Paleissymposium	Koninklijk huis	29-11-2017	Paleis op de Dam	van der Horst-Bruinsma IE
Pfizer research award for best project proposal of imaging of therapeutic effects of anti-TNF on bone formation in psoriatic arthritis	Pfizer	2017		van der Laken C
PhD award	Dutch Tumor Immunology meeting			van Dinther D
Beijerinck Premie 2017	KNAW			van Gils M
Membership	KNAW	8-6-2017		van Kooyk Y
Fellow for professional excellence and outstanding service to the profession and the society	European Society of Clinical Microbiology and Infectious Diseases	24-4-2017	Basel, no Ceremony	Vandenbroucke-Grauls C
Ridder in de Orde van de Nederlandse Leeuw	Zijne Majesteit de Koning	6-10-2017	Amsterdam	Vandenbroucke-Grauls C

## 2018

Name award/honor	Awarded by	Date	Place Ceremony	Researcher
Roger Pecoraro Award	American Diabetes Association	13-7-2018		Peters E
Joep Lange & Jacqueline van Tongeren Junior Investigator Award				Ribeiro C
Membership Amsterdam Young Academy	UvA/VU			van Gils M
KWF onderzoeker van de week	KWF			den Haan J
KWF onderzoeker van de week	KWF			van Egmond M
Are anti-EGFR monoclonal antibodies the magic bullets that remove circulating tumor cells in patients with non-small cell lung cancer (NSCLC)? € 175.000	KWF	2018		van Egmond M
Neutrophils as potential targets to prevent tissue damage in chronic inflammation and autoimmunity- € 270.000	Health Holland Prize	2018		van Egmond M
Novel Immunotherapies to treat cancer - € 300.000	Foundation Prize	2018		van Egmond M
VUmc profielprijs 2018	VUmc	7-1-2018		Bulting I - Team SLE and Pregnancy
NWO TOP grant - Characterisation of the immunomodulatory effect of stromal cells in health and disease	NWO	31-1-2018		Mebius R en van Baarsen L
International Prize - Film: Glycotreat: Cancer Immunology Research				van Kooyk Y

## 12.3 Patents / licenses

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

## 12.4 Personal grants

2017

Location AMC

VENI

- Hoe MMP-1 longfibrose vererget  
*Dr. J. (Jan Willem) Duitman (m), AMC - Geneeskunde*  
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 specifieker antilichamen krijgen. Hierdoor werken sommige vaccins zo goed. Door het exacte mechanisme achter deze selectie te ontrafelen hoopt de onderzoeker te begrijpen waarom sommige vaccins beter werken dan anderen en met deze kennis vaccinaties te verbeteren.
- Lokale ondersteuning voor long-residente 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 behandelingsstrategieën bieden voor preventieve therapie.
- Osporen 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 orgaan afstotning te voorkomen, of kanker te bestrijden.

- **B cellen trainen om breed neutraliserende HIV antistoffen 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-slok darmkankers immuun voor therapie**  
*Dr. S. (Sarah), Derk (v), VUMC, Medische Oncologie*  
 De behandeling van maag-slok darmkanker vraagt om een nieuwe aanpak. Nieuwe immunotherapie lijkt veelbelovend, maar behoeft verbetering. De aanvraagster richt zich op het ontmaskeren van mechanismes die maag-slok darmkankers 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 500.000 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) Spaepen (m), Amsterdam UMC, Locatie AMC*  
 Cellen in het lichaam praten met elkaar door middel van eiwitten. De onderzoeker gaat ontrafelen hoe gesuikerde vetten communicatie eiwitten verstören. Verder

gaat hij uitzoeken of tumor cellen deze gesuikerde vetten gebruiken om onopgemerkt te blijven door eiwit communicatie te verstören.

#### VICI

- **Nieuwe behandeling voor nekkramp**  
*Prof. dr. D. (Diederik) van de Beek (m), UvA - Geneeskunde, Neurologie*  
 Bacteriële hersenvliesontsteking is een levensbedreigende hersenontsteking. Verschillende ontstekingsfactoren zijn geïdentificeerd met impact op uitkomst maar hoe deze gebruikt kunnen worden als behandeling is nog onduidelijk. In dit onderzoek worden nieuwe behandelingen voor de ziekte uitgetest met als doel levens te redden.
- **Poortwachters van de bloedvaten**  
*Dr. J.D. (Jaap) van Buul (m), UvA - Sanquin Research and Landsteiner Laboratory*  
 De bloedvatwand vormt de grens tussen het bloed en het omliggend weefsel. In geval van een ontsteking bewegen witte bloedcellen zich door de vaatwand om de ontsteking aan te pakken. Dit voorstel beoogt beter te begrijpen hoe de vaatwand de witte bloedcellen binnenlaat om ziektekiemen te verwijderen.

#### Location VUmc

#### 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, ihb vector-overdraagbare infectieziekten
- Ronald van Vollenhoven (AMC): hoogleraar Reumatologie

- Joost Wiersinga (AMC): hoogleraar Inwendige geneeskunde, inh translationele infectieziekten

#### Location VUmc

- Michiel van Agtmael (VUmc): hoogleraar Farmacotherapieonderwijs

### 2018

#### Location AMC

- 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

#### Location VUmc

- Irene van der Horst (VUmc): Reumatologie, i.h.b. genderaspekten bij de musculoskeletale ontstekingsziekten
- Fons van den Eertwegh (VUmc): Klinische immuno-oncologie.
- Tuna Mutis (VUmc): Immuuntherapie van hemato-oncologische ziekten
- Sergey Nejzentsev (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
- Cornet ME: Nasal polyposis: Advances in diagnosis and management
- Cortjens B: Neutrophils in respiratory syncytial virus disease: Untangling the NET
- de Groot JC: Adult-onset eosinophilic asthma
- Derkx 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
- Gołębski K: Regulation and cross-talk between environmental triggers of local immune responses in airway epithelial cells
- Hazendonk HCAM: Pharmacokinetic-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 Eé: 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 increased 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
- 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
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