

Annual Report 2010

OOA

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preface

Preface

The mission of the Oncology Graduate School Amsterdam (Onderzoekschool Oncologie Amsterdam - OOA) is to educate graduate students in basic and clinical cancer research, and to ensure proper supervision and mentoring of graduate students in the Amsterdam region. OOA's graduate students are scientist-in-training who receive additional theoretical and practical education on various subjects related to cancer.

OOA is a joint venture of the Netherlands Cancer Institute (Nederlands Kanker Instituut - NKI) and the medical faculties VU University Medical Center (VUmc) and Amsterdam Medical Center (AMC) of the VU University Amsterdam (Vrije Universiteit - VU) and the University of Amsterdam (Universiteit van Amsterdam- UvA), respectively. These organizations strive for excellence in research and education in oncology, the realization of which is promoted by their participation in OOA.

The OOA research program ranges from basic molecular biology to clinical bedside research. It includes, for instance, fundamental studies on cellular signal transduction and the control of gene expression, but also clinical trials of new immunotherapeutic approaches and the development of new tools to evaluate the quality

of life in cancer patients. OOA organizes a range of educational activities, including specialized training courses, meet-the-expert sessions and an annual graduate student retreat.

This report describes the activities and scientific output of OOA in 2010. It includes detailed listings of our educational activities, such as training programs, and an overview of the scientific output, including listings of PhD theses completed and scientific papers published throughout the year 2010.

Executive Directors,

Prof.dr. G.A. Meijer (VU)
Prof.dr. T.K. Sixma. (NKI)
Prof.dr. J.P. Medema (UvA)

board and organization

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1. Board and organization

Board

Prof.dr. A. Berns, chairman
Prof.dr. S. Rodenhuis
Prof.dr. C.J.L.M. Meijer
Prof.dr. P. Postmus
Prof.dr. C.E.E. Konings
Prof.dr. D.J. Richel

Executive directors

Prof.dr. G.A. Meijer, chairman
Prof.dr. T.K. Sixma
Prof.dr. J.P. Medema

Participating institutes

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VU University Medical Center (VUmc)
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Faculty and staff

The complete list of founding institutes' faculty and staff involved in educational activities and research projects conducted by OOA is provided in Annex 1.

general report

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2. General report

Educational activities

The OOA is a successful and large graduate school, with 392 PhD students, 120 faculty and 374 OOA staff members involved. Among the Dutch graduate research schools, OOA is one of the 13 schools within the field of 'medical sciences'. It is the only school specifically focusing on training in cancer research. Monitoring of the quality of research in the different institutes is performed by local committees at the participating institutes, e.g. a research institute or board.

The quality of the OOA is shown by its regular accreditation by the Royal Netherlands Academy of Sciences regularly, currently for the period 2009-2014.

The core activity of OOA is training PhD students in conducting cancer research. For this purpose, OOA has developed a high-quality curriculum. In 2010, OOA organized various graduate training courses and an Annual Graduate Student Retreat.

All courses were evaluated by means of standardized evaluation procedures. In this way, OOA carefully monitors the quality of its courses. Based on the outcome of these evaluations, the training programs are being improved continuously.

A detailed description of all training courses offered in 2010 is provided in chapter 3 of this Annual Report.

Research program

Research projects at OOA's institutes can be clustered under two main themes. The theme 'Experimental biology' covers 'Oncogenesis' and 'Tumor cell biology' as the main lines of research. The second main theme is 'Experimental clinical research' and covers 'Diagnosis of cancer' and 'Prevention and therapy of cancer'. Chapter 4 provides listings of all individual PhD projects conducted within these main themes. More detailed descriptions of these research programs and their output are provided in the annual reports of the founding institutes.

Theme 1: Experimental biology

The development of cancer is frequently associated with aberrations in cell signalling and signal transduction pathways. Transformation of a normal cell into a malignant cell requires multiple (epi)genetic alterations affecting key genes

controlling cellular pathways involved in cell division, proliferation and apoptosis. Studying genes and proteins involved in these pathways results in better understanding of tumor development, progression and therapy resistance and should contribute to the development of novel diagnostic tools and better treatment strategies.

Using innovative research tools, novel components of major cancer-relevant pathways are further unravelled. Tools applied in research projects include high-throughput methods for (epi)genetic, transcriptomic and proteomic analyses. Examples are large tumor cohort screens with CGH or expression arrays, gain-of-function genetic screens with retroviral cDNA expression libraries, and loss-of-function genetic screens with RNA interference libraries. Mechanistic studies using e.g. structural biology complement the functional studies. Advanced mouse models or sophisticated xenotransplant models have been developed for the genetic dissection of cancer.

At the cellular level, processes like cell-cell communication, cell-cell adhesion, cell migration and proliferation are being studied. Metastasis, the spread of tumor cells to distant sites in the body, is the main cause of cancer lethality. The mechanisms of cancer metastasis are being investigated. Important mechanisms in the pathogenesis of cancer are studied including genetic susceptibility, viral oncogenesis, oncogene induced senescence, genomic instability, tumor-stroma interactions and anti tumor immune responses.

Theme 2: Experimental clinical research

Improvements in clinical care in oncology originate in improved detection, better treatment and translation of basic science findings in the clinic. The emerging and rapidly growing fields of molecular imaging and genomics provide new opportunities to study the biology of a malignancy in individual patients and allows for development of highly valuable indicators for diagnosis and prediction of disease outcome. Development of the 70-gene breast cancer predictor at the NKI has lead to the first FDA approved diagnostic screen for breast cancer. Modern state-of-the-art techniques like CT, MRI, SPECT and PET enable imaging methods with high precision and unique molecular and biological information at the tissue level. Reporter probes are being developed and evaluated. Highly developed mouse models emulating human tumor growth are used to follow drug sensitivity in several types of cancer and for

developing clinical strategies for imaging. High-throughput tools are applied to measure (epi)genetic alterations and improve disease classification, including expression micro-arrays and CGH arrays. Quantitative mass spectrometry is applied to search for proteins distinguishing diseased and disease-free states. Targeted cancer therapy, is yet another research focus. Patient-tailored therapy should ensure optimal treatment benefits. Projects include (pre)clinical evaluation the use of neoadjuvant treatment or the application of new molecular therapies and anti-angiogenic agents against novel targets in tumor and its environment. Pharmacological optimization of conventional cytotoxic drugs is an important line of research, as are passage of the blood-brain barrier by drugs and development of immune therapy. New immunotherapeutic approaches are being investigated and the impact of vaccination is being explored. Clinical trials are evaluating gene therapy with focus on optimal targeting and improving viral vector efficacy.

PhD projects and students

Overall, 392 PhD projects were actively elaborated throughout 2010. The names of the PhD students at the three OOA institutes and the projects in which they participated are listed in chapter 4. Of all PhD projects, 17% was funded by the participating institutes themselves (primary funding; 'eerste geldstroom'); 19% was financed by public funds (secondary funding; 'tweede geldstroom'), 42% by research contracts from external organisations including cancer charity and industrial funds (tertiary funding; 'derde geldstroom') and 22% was financed by other funds (quaternary funding; 'vierde geldstroom').

A total of 52 PhD students completed and defended their PhD thesis in 2010. Annex 3 provides the complete list of PhD students who obtained their degree in 2010 with details of their theses and graduation.

International visitors

Training of PhD students can be stimulated and enhanced by having scientific interactions between students and foreign experts operating in the field of the students' research projects. OOA is part of a large international network of cancer researchers and, therefore, international guests from other research institutes visit OOA's institutes frequently to interact with OOA students and staff. Throughout 2010, we welcomed 63 international experts in various settings (Annex 2).

Awards

Several PhD students and staff of the OOA institutes won prestigious awards and honors -

scientific or otherwise - in 2010. Chapter 5 provides a listing of these awards and honors.

OOA has an excellent (inter)national status, as demonstrated by, amongst others, the large number of research projects granted in open national and international calls, including several of the prestigious new grants. The faculty is strongly represented in the 'vernieuwingsimpuls', the Veni-Vidi-Vici development grants for junior researchers and participates widely in CTMM projects and TI Pharma projects as well as in numerous EU integrated projects and networks of excellence. Funding also is strongly supported by the Dutch science foundation NWO and the cancer charity, KWF.

Research highlights

Research highlights in 2010 included work of M. Gok of the group of C. Meijer. They showed that offering self sampling by sending a device for collecting cervicovaginal specimens for high risk HPV testing to women who did not attend regular screening is a feasible and effective method of increasing coverage in a screening programme. The response rate and the yield of high grade lesions support implementation of this method for such women (BMJ. 2010 Mar 11;340:c1040).

Kinases execute pivotal cellular functions and are therefore widely investigated as potential targets in anticancer treatment. S. Mir et al of the group of T. Wurdinger analyzed the kinase gene expression profiles of various tumor types and reveal the *wee1* kinase to be overexpressed in glioblastomas. They demonstrated that WEE1 is a major regulator of the G(2) checkpoint in glioblastoma cells. Inhibition of WEE1 by siRNA or small molecular compound in cells exposed to DNA damaging agents results in abrogation of the G(2) arrest, premature termination of DNA repair, and cell death. Importantly, they showed that the small-molecule inhibitor of WEE1 sensitizes glioblastoma to ionizing radiation *in vivo*. Their results suggest that inhibition of WEE1 kinase holds potential as a therapeutic approach in treatment of glioblastoma (Cancer Cell 2010; 18: 244-257). Stereotactic body radiotherapy (SBRT) for stage I non-small-cell lung cancer (NSCLC) is associated with high local control rates. The impact of introducing SBRT in patients 75 years of age or older was studied using a population-based cancer registry. D.A. Palma of the group of S. Senan showed that SBRT introduction was associated with a 16% absolute increase in RT use, a decline in the proportion of untreated elderly patients, and an improvement in OS (J Clin Oncol 2010; 28: 5153-5159).

Chromatin composition is still poorly characterized. The Van Steensel group has generated genome-wide high resolution binding maps of 53 chromatin components in *Drosophila* cells. They demonstrated that the genome consists of five discernable chromatin types. One represents a new repressive chromatin type that

covers about half of the genome and lacks classic heterochromatin markers whereas two represent transcriptionally active euchromatin.

Their results provide an overarching view of chromatin diversity and domain organisation in metazoan cells (Cell 2010; 143(2):212-24).

M. Hölzel and S. Huang, working in the group of R. Bernards, identified a mechanism of resistance to retinoic acid (RA) in neuroblastoma. This is a clinically relevant question, as this drug is used with only limited success to treat aggressive forms of this disease. Using a genetic approach, they identified cross talk between the NF1-RAS-MEK signalling cascade and RA signaling as a major cause of RA resistance in neuroblastoma.

Activation of the NF1-RAS-MEK cascade suppresses expression of the Retinoic Acid Receptor co-activator ZNF423, which they found to be essential for transcriptional activation by this receptor.

They demonstrated that inhibition of MEK signaling with small molecules restores responsiveness to RA, providing a potentially powerful combination therapy to overcome RA resistance, a phenotype seen in over half of primary neuroblastomas (Cell 2010; 142: 218-29).

The group of M. Fornerod studied chromatin interactions with nuclear pore complex components. They showed that apart from their role in chromatin organisation at the nuclear envelope, the nucleoporins inside the nucleoplasm predominantly interacted with transcriptionally active genes away from the core complex thereby stimulating their expression (Cell 2010; 140: 360-71).

The benefits of preoperative biliary drainage, which was introduced to improve the postoperative outcome in patients with obstructive jaundice caused by a tumor of the pancreatic head, are unclear. N.A. van der Gaag of the group of D.J. Gouma compared in a multicenter, randomized trial, preoperative biliary drainage with surgery alone for patients with cancer of the pancreatic head. They showed that routine preoperative biliary drainage in patients undergoing surgery for cancer of the pancreatic head increases the rate of complications (New Eng J Med 2010; 362(2): 129-137).

In 2006, Van Oers et al published the results of the European Organisation for Research and Treatment of Cancer phase III trial EORTC 20981 on the role of rituximab in remission induction and maintenance treatment of relapsed/resistant follicular lymphoma (FL). At that time, the median follow-up for the maintenance phase was 33 months. In 2010, they reported the long-term outcome of maintenance treatment, with a median follow-up of 6 years. They confirmed the superior progression-free survival with rituximab maintenance in relapsed/resistant FL. The improvement of overall survival did not reach statistical significance, possibly because of the unbalanced use of rituximab in post-protocol salvage treatment (J Clin Oncol 28(17):2853) Despite the presence of mutations in APC or beta-catenin, which are believed to activate the Wnt signalling cascade constitutively, most colorectal

cancers show cellular heterogeneity when beta-catenin localization is analysed, indicating a more complex regulation of Wnt signalling. L. Vermeulen et al. of the group of JP Medema explored this heterogeneity with a Wnt reporter construct and observed that high Wnt activity functionally designates the colon cancer stem cell (CSC) population. In adenocarcinomas, high activity of the Wnt pathway is observed preferentially in tumour cells located close to stromal myofibroblasts, indicating that Wnt activity and cancer stemness may be regulated by extrinsic cues. In agreement with this notion, myofibroblast-secreted factors, specifically hepatocyte growth factor, activate beta-catenin-dependent transcription and subsequently CSC clonogenicity. More significantly, myofibroblast-secreted factors also restore the CSC phenotype in more differentiated tumour cells both in vitro and in vivo. They therefore propose that stemness of colon cancer cells is in part orchestrated by the microenvironment and is a much more dynamic quality than previously expected that can be defined by high Wnt activity (Nat Cell Biol 2010; 12(5): 468-476).

A total of 1587 papers have been published by researchers from the three institutes. Of these, 101 papers concerned collaborations between researchers from VUmc, NKI and AMC. Annex 4 provides the complete list of scientific publications in 2010. Annex 4 provides the complete list of scientific publications in 2010.

Facilities

The main goal of all research activities of the 3 OOA institutes is to better understand the development of cancer and to improve the perspectives of cancer patients. For this purpose, many state-of-the-art technologies are present and new initiatives have been developed. Information about innovative technologies is communicated at many occasions, including courses and the OOA retreat, and these technologies are open to PhD students within OOA. As a result, the OOA PhD students often have early access to novel techniques and can apply these in research.

State-of-the-art facilities are:

- * Deep sequencing facility (NKI, AMC)
- * Microarray facilities with high resolution oligonucleotide array and CGH arrays for mouse and human studies (VUmc, NKI, UvA)*
- * Oncoproteomics laboratory for protein and glycan profiling using mass spectrometry (VUmc, AMC)
- * (Molecular) Imaging facilities (cyclotrons, GMP facilities, animal and clinical PET/CT-cameras and MRI-machines) enabling imaging of anatomical details with high precision (VUmc)
- * Tissue microarray facility (VUmc, AMC)
- * Robotics and screening facility, including high content imaging (NKI)
- * Microscopy facility, including extensive confocal and electron microscopy (NKI, AMC)
- * Flow cytometry facility (NKI, AMC, VUmc)
- * Extensive animal facilities (NKI, AMC)

- * Tissue and Serum biobanks (NKI, VUmc)
- * Genomics: MPS GS-FLEX sequencer (AMC)
- * Lentiviral library for RNA-silencing for human and mouse (AMC)
- * Mass spectrometry facility (NKI, VUmc, AMC)
- * Protein Expression Facility (NKI)

In addition, new initiatives are:

- * Imaging Center (including training center) (VUmc)
- * Central Clinical Trial Support (office) (VUmc, AMC)
- * Phase I/II unit for clinical trials (VUmc, AMC)
- * Biobanking (VUmc, AMC)
- * Human monoclonal antibody phage display facility (VUmc)
- * Mouse Clinic (NKI)

educational activities

3

3. Educational activities

In line with its mission, i.e. providing graduate students education in oncology research, OOA organizes several advanced courses in the field of oncology annually. The educational program is drawn up by the Board of Directors based upon evaluations of previous courses, contemporary developments in cancer research, and educational needs expressed by PhD students as well as initiatives from the OOA faculty. OOA offers courses focused on a wide variety of topics.

In 2010, 7 courses and 1 Meet-the-Experts session were organized. In addition, the Annual Graduate Student Retreat was organized again in 2010. Courses are usually restricted to about 15-20 graduate students to ensure optimal interaction between students and faculty. Courses are advertised on the OOA website and announced by e-mail to the PhD students.

Courses included lectures given by (inter)national experts, demonstrations and practical training.

Besides the specialized oncological courses mentioned below, the graduate students followed several general courses such as on biostatistics and epidemiology, on laboratory animal technology and on writing and (poster)presentations techniques in scientific English. These courses were organized by the AMC, VUmc and NKI.

Techniques in Cancer Genomics (Course, Symposium, Meet the Experts)

Organization: Dr. J. Jonkers
Dr. B. Ylstra
Date: 19, 24-26 February
Location: NKI/VUmc

Technology is essential for basic cancer research and for translating our basic findings to the clinic. The overall aim of this OOA graduate course was to explore various state-of-the-art techniques used in cancer genomics, with a focus on their applications, their pros and cons, and the current challenges. Topics included massive parallel sequencing, different micro array applications, genome-wide analysis of non-coding RNAs as well as the use of model organisms and public databases in cancer genomics.

The first part of the one-week course focused on reading and discussing primary papers and reviews of 9 speakers. Students were expected to read the literature provided before the start of the course. Eight teams of 2-3 students presented a key paper of one of the speakers of the meeting, writing a critical review of a key paper of the second speaker, and preparing critical questions for the third speaker. Therefore, each team had to do in-depth reading of

primary papers of 3 different speakers. Conversely, each speaker was covered by 3 different teams of PhD students, ensuring a lively discussion during the PhD student presentations and during the Meet-the-Expert sessions. The paper of Prof. dr. Graeme Laurie (on ethics and privacy in genome research) was read and discussed by all PhD students.

The second part of the PhD course was combined with a 2-day symposium, including Meet-the-Expert session in the morning and talks in the afternoon.

The symposium program included 9 seminars given by 7 international and 2 national speakers and was attended by 250 scientists. The combination of the PhD course with the symposium allowed us to invite the best speakers in the field of techniques in cancer genomics.

A total number of 21 students participated in the course. The overall evaluation rate was 8.5 (scale 1-10).

The symposium was attended by 250 scientists.

The Microscopic, Macroscopic and Pathologic Anatomy of the Mouse

Organization: Prof.dr. R. van Noorden
Prof.dr. W. Lamers
Date: 29 March - 1 April
Location: AMC

Most biomedical PhD students perform animal experiments at some stage of their research career, but most students have never received practical instructions with respect to the anatomy, histology and pathological anatomy of experimental animals. For this reason, experimental animals are usually not subjected to a thorough and systematic inspection to assess whether, besides the local (expected) effects in the organ(s) under study, other organs are affected as well.

This annual course aims at providing insight(s) into the anatomy and histology of the mouse, presently the most frequently used animal species in cancer research. In addition, the course focused on the recognition of pathological changes in the mouse. During the course each student dissected either a male or a female mouse, to become acquainted with the topographic anatomy of this species. The microscopy part of the course focused on studying the architecture of normal and pathologically altered mouse tissues. During the practical part, recognition of cell and tissue types, and changes in architecture of tissues as a result of pathological processes, were studied microscopically.

In addition to standard staining techniques, functional staining techniques were demonstrated. This year the practical part of the microscopical anatomy has been

done with computerized sections and computer assisted magnifications.

A total number of 14 PhD students participated in the course. The overall evaluation rate was 7.3 (scale 1-10).

Radiation Oncology

Organization: Dr. V. Lafleur
Date: 31 May - 4 June
Location: VUmc

In this course the rationale for the use of radiotherapy for oncological patients was elucidated. Topics of the course include: effects of irradiation on DNA, the cellular basis of radiotherapy, radiation injury to tumours and normal tissues, the physical principles of radiotherapy and the use of radiotherapy in the treatment of common malignant diseases. Practical work in treatment planning of a virtual patient was also part of the course. New developments in radiotherapy were addressed as well.

A total number of 20 students participated in the course. The overall evaluation rate was 4.0 (scale 1-5).

Gene Regulation Networks

Organization: Dr. L. Wessels
Dr. B. van Steensel
Date: 8 - 18 June
Location: NKI

This course aimed to offer an overview of new approaches to study complex gene regulatory networks. Rather than studying individual genes or single regulatory proteins, their view was broadened to the regulation of large sets of genes in the context of the entire genome, by a multitude of regulators.

Topics that were covered included: principles of regulatory systems; transcriptome analysis; transcription factor networks; genome-wide analysis of chromatin composition and chromosome folding. Emphasis were on the integration of high-throughput "wet-lab" and bioinformatics approaches, using a variety of model organisms (yeast, flies, worms, mammals).

Seven or eight international experts in the field will be invited to discuss their cutting-edge genomics and "network biology" approaches to gene regulation. Students had journal clubs on papers written by the visiting experts, wrote referee reports, attended seminars, and had extensive discussions with each guest speaker.

A total number of 17 students participated in the course. The overall evaluation rate was 8.0 (scale 1-10).

Epigenetics and non-coding RNA

Organization: Dr. R. Agami
Dr. F. van Leeuwen
Date: 20 September - 1 October
Location: NKI

It has recently become clear that regulation of gene expression is much more complex than previously anticipated. On top of the classical transcription factors, also non-coding RNAs and the epigenetic state of the genome are powerful gene regulatory mechanisms. Importantly, they affect normal development and impact disease states such as cancer. This OOA course offered an overview of this field - and provided insight into new discoveries and state-of-the-art knowledge of the subject.

The course started with an introduction about the topic of the course, presented by the course organizers. The rest of the two weeks included literature studies and journal clubs and seminars given by world-class speakers from leading laboratories all over the world, followed by meet-the-expert sessions. Eight international and national experts in the field have been invited to discuss their latest results. During the course students heard about different mechanisms of gene regulation by non-coding RNAs and epigenetics, cross-talk between chromatin and non-coding RNAs, methods on how to study non-coding RNAs and epigenetic factors in humans and other organisms and the power of using different model systems (yeast, worms, flies, zebrafish, mice).

Participating students were expected to read the background literature provided before the start of the course. Teams of 2-3 students gave presentations on a key paper from one of the expert speakers of the meeting, and prepared a critical review of a second key paper. This allowed a highly interactive discussions session with the speakers.

A total number of 21 students participated in the course. The overall evaluation rate was 8.15 (scale 1-10)

Basic medical statistics for clinical and experimental research

Organization: Dr. M. Hauptman
Dr. M. Lopez Yurda
Dr. W. Heemsbergen
Time: 4 - 15 October
Location: NKI

The aim of the course was to explain statistical techniques for the evaluation of medical data from clinical and experimental research, and to provide an introduction into design aspects, methods of summarizing and presenting data, estimation, confidence intervals and hypothesis testing, including multivariable regression methods for the assessment of association.

The emphasis was on practical application and interpretation rather than theory. The course included lectures on general methods and concepts and their

application (4 half days) as well as tutorials on methods and examples specific for experimental (2 half days) and clinical research (4 half days). The use of the statistical software SPSS was demonstrated and example data sets with accompanying SPSS code were made available.

The course was well received. The average score was 7.0 (scale 1-10). A total of 47 students participated in the course.

A total of 116 students participated in this retreat. The course was rated excellent/good by 98% of the participants.

Basic Microscopy Course “In the Footsteps of Antoni van Leeuwenhoek”

Organization: Dr. J.A.M. Beliën
Dr. L. Brocks
Dr. L. Oomen
Dr. E.A.J. Reits
Dr. N van de Wel
Time: 11 - 15 October
Location: VUmc/AMC/NKI

This 5-day basic course covered a wide range of aspects of microscopy, starting with a short history of microscopy and basic principles of various forms of microscopy. Lectures, hands-on sessions covered the basics of image analysis and image processing, image measurement, electron microscopy, confocal microscopy and imaging (live cell imaging), fluorescence microscopy (time-lapse imaging and deconvolution) and correlative light and electron microscopy. During the course samples were prepared and examined. The participants could bring their own purified proteins solutions after consulting with the organization first.

A total of 16 students participated in the course. The overall evaluation rate was 4.1 (scale 1-5).

Annual Graduate Student Retreat

Organization: Prof.dr. T.K. Sixma
P. Lagerweij
Time: 24 - 26 November
Location: Texel

A highlight of the educational program is the Annual Graduate Student Retreat. This three-day retreat focuses entirely on research conducted by the graduate students themselves. At the retreat, students not only present their work as a poster in the first year of their participation and as an oral presentation in subsequent years, they are also in charge of chairing sessions and discussions.

In recent years, student participated in peer review of the presentations given by others in order to award the prize for the best poster and best presentation. In this manner, the retreat trains important skills in presentation and interaction but it also provides an overview of research conducted within OOA at an early stage of the student's career, contributing significantly to the interaction between different groups: fundamental and clinical students.

PhD research program

4

4. PhD research program

This chapter describes the 392 PhD projects conducted within the two main themes of the OOA research programs, with the names of the PhD students involved and their supervisor(s).

* PhD students who obtained their PhD degree in 2010

PhD students who stopped their PhD research in 2010

Funding

1 Financed by participating OOA institute (“eerste geldstroom”)

2 Financed by public funds (“tweede geldstroom”)

3-4 Financed by private funds (“derde / vierde geldstroom”)

Theme 1: Experimental Biology

Name	Title of the project	Supervisor	Start	Fund
Biochemistry (NKI)				
Blomen V.	Functional Profiling of a Human knockout collection	Brummelkamp	2010	1
Faesen A.C.	Structural and functional studies on Ubiquitin Specific Proteases	Sixma	2005	2
Groothuizen F.	Structural studies of DNA mismatch repair	Sixma	2009	2
Hausmann J.	Structural studies of autotaxin	Sixma	2008	4
Mattioli F.	Structural and functional analysis of novel E3 ubiquitin ligase consisting of polycomb proteins BML1 and Ring 1B	Sixma	2006	2
Smit J.J.	Ubiquitin conjugation	Sixma	2007	4
Staring J.	Tissue size control and the regulation of Hippo pathway activity in mammals	Brummelkamp	2010	4
Vargas M.	Structural analysis of the mechanism of ubiquitin conjugation	Sixma	2004	2
Cell Biology I (NKI)				
Ellenbroek S.	Tiam1/Rac signaling and wnt/beta-catenin-induced tumorigenicity	Collard	2004	3
Elouarrat D.	Regulation of sirt1 and downstream targets by phosphoinositides	Moolenaar	2005	4
Frijns E.	Controlling hemidesmosome dynamics by phosphorylation of residues on the integrin beta4	Sonnenberg	2007	2
Galovic M.	Casein kinase 2-dependent regulation of N-wasp function in endocytosis	Innocenti	2009	1
Groot, de D.J.	Function of tedruspanin integrin complex cd151 in development and maintenance of glomerular fiction barrier	Sonnenberg	2009	3
Hajdo-Milasinovic A. *	Ras en Rho signaling networks and epithelial-mesenchymal transition	Collard	2001	3
Houben A.	Autotaxin, a secreted lyso PLD: role in tumor progression	Moolenaar	2006	3
Osogai T.	Understanding the role of filopodia in cell migration	Innocenti	2009	1
Kedziora K.	Calcium and phosphoinositides in the control of podosome formation and tumor cell invasion	Jalink	2010	3
Ketema M.	Analysis of the function of a novel nuclear envelope protein, nesprin 3 in anchoring the nucleus to the intermediate filament system	Sonnenberg	2005	2
Margadant C.	Generation of a mouse model for EBS-MD	Sonnenberg	2006	4
Mertens S.	Initiation and progression of lymphomas and skin carcinogenesis in Tiam1 mutant mice	Collard	2001	3

Name	Title of the project	Supervisor	Start	Fund
Sachs N.	Function of integrin-CD151 complexes in tumor cell invasion and metastasis	Sonnenberg	2004	3
Visser D.	TRPM7 a novel regulator of cytoskeletal tension implications for cancer progression, invasion and metastasis	Jalink	2007	3
Cell Biology II (NKI)				
Albers H.	Chemical biology of phosphate ester hydrolysis	Ovaa	2007	2
Bakker J.	Towards understanding and manipulation of MHC class II antigen presentation	Neefjes	2010	4
Berkers C.*	Chemistry-based functional proteomics, new tools for cancer biology	Ovaa	2004	2
Deventer, van S.	Kinome and phosphatome knock-down	Neefjes	2008	2
Ekkebus R.	Pan DUB inhibitors to study the ubiquitinated proteome	Ovaa	2009	2
Hoorn, van den T.	Defining the MHC class II microdomain to understand immune responses	Neefjes	2004	2
Hoppes R.	Characterization of peptide-MHC interactions	Ovaa	2007	2
Houben D.	Pathways of antigen presentation by CD1 a,b and c	Peters	2006	2
Jong de A.	Post-Translational transpeptidation and immunity	Ovaa	2009	2
Jongsma M.	Manipulating the MHC class II system to control immune responses in auto immunity	Neefjes	2007	2
Kant, van der R.	Manipulating the MHC class II system to control immune responses in auto immunity	Neefjes	2007	2
Leeuw, de R.	Nuclear receptors in targeted cancer therapy	Michalides	2007	4
Pang B.	Manipulation of phagosomal pathways	Neefjes	2006	2
Paul P.	Finding new players in MHC class II Ag presentation	Neefjes	2006	2
Pierson J.	EG immunoprotein immunological and structural studies of prion diversities	Peters	2006	2
Salomon I.	Microban	Neefjes	2005	2
Wu L.	Towards understanding and manipulation of MHC class II antigen presentation	Neefjes	2010	4
Wijdeven R.	Towards understanding and manipulation of MHC class II antigen presentation	Neefjes	2009	1
Gene regulation (NKI)				
Bemmel, van J.	Multi-gene chromatin domains	Van Steensel	2007	2
Bijos D.	Systems biology of epigenetics & cancer	Van Steensel	2009	4
Bos A.	Genetic screens to identify cancer related functions of human microRNAs	Agami	2008	3
Braunschweig U. *	Genome-wide analysis of chromatin structure	Van Steensel	2005	2
Drost J.	Identification and characterization of human tumor suppressor genes in the p53 pathway	Agami	2005	3
Frederiks F. *	The role of histone methylation in the regulation of gene expression	Van Leeuwen	2004	4
Kalverda B. *	The role of RamBP3 in beta catenin dependent nuclear signaling and oncogenesis	Fornerod	2004	3
Kouwenhove, van M.	Role of miRNA genes in etiology of germ cell tumors and derived malignant tumors	Agami	2007	3
Melo C.	miRNAs and cancer	Agami	2009	4
Peric-Hupkes D.	Chromatin Profiling of Human gene silencing complexes	Van Steensel	2004	2
Terweij M.	Chromatin dynamics and epigenetic changes	Van Leeuwen	2009	2

Name	Title of the project	Supervisor	Start	Fund
Verzijlbergen K.	The role of histone methylation in gene silencing and transcriptional memory	Van Leeuwen	2005	2
Vlaming H.	Role of histone methyltransferase Dot1 in gene expression and leukemic transformation	Van Leeuwen	2010	3
Immunology (NKI)				
Ariotti S.	Introvital imaging of epidermal immune phenomena in virus infections and DNA tattooing	Haanen	2007	1
Buuren, van M.	The use of MHC-tetramer technology to characterize HCV specific T-cell responses	Schumacher	2010	4
Gerlach C.	Cellular barcoding and dissection of T cell differentiation	Schumacher	2005	1
Heideman M.	Role of translesion DNA synthesis in Immunity and Cancer Development	Jacobs	2005	2
Heijst, van J. *	Tracing lineage relationships by cellular barcoding	Schumacher	2004	3
Hogenbirk M.	A Cancer Genome Atlas of the activation induced cytidine deaminase novel insights into the pathogenesis and prognosis of B cell lymphoma	Jacobs	2008	3
Hooijkaas A.	Generation of melanoma-specific immune responses	Blank	2009	4
Kooij, van de B.	A novel type of ubiquitination regulates apoptosis signaling by BH3 only protein Bid	J.Borst	2008	2
Krijger P.	Regulation of Translesion Synthesis	Jacobs	2005	2
Linnemann C.	Preclicinal development of TLR gene therapy for prostate carcinoma	Schumacher	2008	2
Maas C. *	Apoptosis signalling of BH3-only protein Bid, mechanisms of action and modes	J.Borst	2004	3
Mezzadra R.	Development of TCR1A vector 1 items for TCR gene therapy	Schumacher	2010	2
Oosterhuis K.	Treatment of HPV positive penile and cervical cancer by introduction of NPV7 special TCI	Haanen	2006	2
Peperzak V. *	The role of CD27/CD70-regulated cell survival in shaping effector and memory T cell responses	J.Borst	2004	2
Rooswinkel R.	Improvement of chemoradiotherapy in head and neck cancer by small molecule inhibitors of Bcl-2	Verheij	2008	3
Veraar E.	TNF ligands in cancer: CD70	J.Borst	2006	4
Wit N.	A cancer Genome Atlas of the activation induced cytidine deaminase	Jacobs	2008	3
Molecular Biology (NKI)				
Aarts M. *	Subtle gene modification by single-stranded DNA oligonucleotides	Te Riele	2004	2
Bakker S.	Significance of the Fanconi Anemia caretaker pathway in development and treatment of cancer	Te Riele	2007	3
Banishki N.	Cell cycle inhibitor DNA damage repair; a lost resort for drug-sensitive mammary tumors to survive chemotherapy	P. Borst	2009	3
Beelen K.	Clinical and molecular evaluation of anti-estrogen resistance in breast cancer	Linn	2009	4
Ciampricotti M.	The inflammatory tumor microenvironment and its impact on breast cancer development and therapy	De Visser	2009	2
Doornebal C.	The role of cancer cell-intrinsic and microenv. factors contr. to metastasis formation and its modulation by opioid	De Visser	2009	1
Drost R.	Therapy responses of BRCA-mutated tumors and role of PALB2 in mammary tumorigenesis	Jonkers	2006	3
Harn, van T.	Role of the G2 restriction point in tumor development and behaviour	Te Riele	2007	3

Name	Title of the project	Supervisor	Start	Fund
Holstege H. *	The role of BRCA1 and BRCA2 loss-of-function in breast cancer	Berns	2002	3
Horlings H.	Microarray analysis of breast cancer as a diagnostic tool to guide optimal treatment	Wessels	2005	3
Iusuf D.	OATP1A/1B(SLCO1A/1B) drug uptake transporters in anticancer drug pharmacokinetics and toxicity risks; possible strategy	Schinkel	2008	3
Jaspers J.	The role of tumor-initiating cells in cancer metastasis and drug resistance	Jonkers / Rottenberg	2008	2
Jong, de J.	Modularity and Complex Interaction in Cancer	Wessels	2009	2
Klijn C.	Disssection of the role of E-caherin loss-of-function in breast cancer development and metastasis	Jonkers	2007	3
Koornstra R.	Predicting hormonal treatment sensitivity in breast cancer	Linn	2007	4
Krumpochova P. #	Characterization of the physiological roles of Multidrug Resistance Protein (MRP)1-6 by in vivo screening for their subs	P. Borst	2009	2
Ronde, de J.	CTMM - Breastcare	Rodenhuis	2008	4
Staiger C.	Subnetwork module construction for improved diagnostic classification and subtyping	Wessels	2009	1
Steeg, van de E. *	The impact of OATP drug carriers on in vivo pharmacology toxicology & physiology	Schinkel	2004	4
Tang S.C.	Impact of apical ABC transporters and cytochrome P450 3A and novel tyrosine kinase inhibitor anticancer drugs	Schinkel	2009	4
Vollebergh M.	Predicting therapy responses in breast and lung cancer	Linn	2007	3
Vormer T. *	The identification of oncogenic events collaborating with loss of function of the retinoblastoma gene family in tumor development and progression	Te Riele	2003	3
Wielders E.	Subtle gene modification to study the role of the mismatch repair complex Msh2/Msh5 in mutation avoid	Te Riele	2004	3
Xu G.	Selective targeting of DNA damage response to eradicate. HR-deficient tumors	P. Borst	2009	3
Zander S.	Mechanisms of chemotherapy resistance of spontaneous mammary tumors in genetically-engineered mouse models	P. Borst	2007	2
Molecular Carcinogenesis (NKI)				
Clijsters L.	Targeting protein destruction during cell division	Bernards	2007	3
Fabius A. *	Molecular barcode screens to identify genetic interactions with protein kinases in mammalian cells	Beijersbergen	2004	3
Geutjes E.	A (de-) ubiquitinating enzyme siRNA screen for novel regulators of the pro-apoptotic TNFR pathway	Bernards	2006	2
Heynen G.	Determinants of the breast cancer stem cell phenotypes	Bernards	2008	2
Kuiken H.J.	HCS/HT using RNAi technology	Beijersbergen	2005	4
Nijwening J.	Development & application of shRNA in cell based screening technologies	Beijersbergen	2004	4
Prahallad A.	Coltheres	Bernards	2010	2
Sun C.	Targeting protein destruction during cell division	Bernards	2010	4
Voets E.	Divergent control of Cyclin B1-Cdk1 in cancer cells: a key role in therapy	Wolthuis	2008	3
Zon, van W.	Control of Mitosis by regulated protein destruction	Wolthuis	2004	2
Molecular Genetics (NKI)				
Alendar A.	Identificaiton of the PIM regulatory network by micro array analysis and high through put retroviral tagging	Berns	2002	3

Name	Title of the project	Supervisor	Start	Fund
Galen, van P.	Genetic screening approaches to the characterization of human blood and leukemia development	Van Lohuizen	2008	4
Ikink G.	Identification and Characterization of Novel Breast Cancer Genes Collaborating with ErbB2	Hilkens	2010	1
Iskit S.	Dissecting the essential contribution of FRA-1 to human tumor cell metastasis	Peeper	2009	4
Kaplon J.	The relationship between cell metabolism, senescence and cancer	Peeper	2007	2
Koppens M.	Role of Polycomb repressors in prostate cancer and breast cancer models	Van Lohuizen	2009	2
Michaloglou C. *	Senescence-like replicative arrest in melanocytic naevi: a melanoma-suppressive mechanism?	Peeper	2003	1
Montfort, van E.H.M	Development of a mouse model to study the genetic basis of malignant mesothelioma	Berns	2000	3
Peuscher M.	Novel factors involved in chromosome END protection by telomeres	Jacobs	2007	3
Smit M.	The role of the neurotrophic tyrosine kinase receptor TrB in anoikis resistance, invasion and metastasis	Peeper	2005	3
Torre, van der J.	Novel factors involved in chromosome end protection by telomeres	Jacobs	2006	3
Velden, van der Y.	The role of lkb1 in tissue morphogenesis and cancer zebrafish	Haramis	2005	2
Vissers J.	Regulation of histone H2A monoubiquitination by Ring 1b/Bmi1 and USP3 in DNA damage respons	van Lohuizen	2006	4
Vredeveld L.	The role and mechanism of escape from Ras induced senescence in oncogenesis	Peeper	2002	3
Wilting R.	The role of class I HOACs in normal physiology tumorigenesis and transcriptional regulation	Dannenberg	2009	2

Clinical Epidemiology and Biostatistics (VUmc)

Wubulikasimu A.	Evaluation of classification strategies for colorectal cancer	Meijer	2009	1 / 2
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Clinical Genetics (VUmc)

Adank M.	Breast cancer predisposition	Meijers	2007	2
Bakker J.L.	Molecular and phenotypic consequences of the CHEK2*1100delC mutation and targeted therapy for breast cancer that lacks CHEK2	Waisfisz	2009	1
Corbin M.	Human Genes essential for the defense against oxygen toxicity	Joenje / Dorsman	2008	3
Dommering C.J.	Retinoblastoom en erfelijkheid	Meijers	2006	1
Haitjema A.	Proteins interacting with FANCI and PALB2	Joenje / Dorsman	2008	3
Massink M.	Molecular classification of familial breast cancer	Joenje / Waisfisz	2008	2
Mol B.M.	Molecular carcinogenesis of retinoblastoma	Dorsman / Cloos	2008	3
Stoepker C.	The Fanconi anemia/BRCA pathway in oral squamous cell carcinomas	Joenje / de Winter	2008	1
Lelij, van der P. *	The role of sister chromatid cohesion in the maintenance of genetic stability	Joenje / de Winter	2006	1

Gastroenterology (VUmc)

Radersma M.	Is c-Abl a potential target for therapy in Enteropathy Associated T-cell Lymphomas?	Mulder	2010	3
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Name	Title of the project	Supervisor	Start	Fund
Hematology (VUmc)				
Leeuw, de D.C.	Uncovering the molecular pathways (microRNAs) that regulate tumor-initiating potential of Leukemic stem cells	Smit	2009	3
Noordhuis P. *	Molecular aspects of 5-fluorouracil and oxaliplatin activity.	Schuurhuis / Peters	2008	4
Ruben J.M.	Leukemia associated antigen loading of dendritic cells for vaccination of acute myeloid leukemia patients	v.d. Loosdrecht	2009	3
Wojtuszkiewicz A.	The role of impaired FPGS splicing in methotrexate response in childhood acute lymphoblastic leukemia	Jansen	2010	3
Medical Oncology (Vumc)				
Heusschen R.	Targeting galectin-1 for the diagnosis and treatment of cancer	Griffioen	2009	3
Hodzic J.	Identification of genes involved in resistance of prostate cancer cells to irradiation	Gerritsen	2009	3
Lindenberg J.J.	Adenovirus-based and CD40-targeted in vivo tumor vaccination	de Gruijl	2006	2
Schneiders F.L.	iNKT and Vγ9Vδ-T cell based immunotherapies for solid tumors	Van der Vliet	2009	1
Siebring van Olst E.	Identification of genes involved in resistance of lung cancer cells to cisplatin	van Beusechem	2009	3
Warmoes M.	Proteomics of breast cancer	Boven	2007	4
Molecular Cellbiology and Immunology (VUmc)				
da Silva Aresta Belo van Wijk A.I.	Galectins in tumor progression and tumor immunology	van Kooyk	2009	4
Gül N.	Prevention of tumour recurrence by blocking surgery-induced adherence of colon carcinoma cells to exposed extracellular matrix components	Beelen	2007	1
Neurology (Vumc)				
Groot, de M.	Correlation between SV2A expression in tumour tissue and efficacy of levetiracetam in glioma patients with epilepsy	Reijneveld	2008	4
Rijn, van S.	Modulation of miRNAs in glioma stem-like cells	Würdinger	2009	3
Obstetrics and Gynaecology (VUmc) Oral and Maxillofacial Surgery and Pathology (VUmc)				
Bremmer J.F.	Diagnosis and therapy of genetically altered mucosal lesions in the oral cavity and oropharynx	van der Waal / Brakenhoff	2002	1
Otolaryngology/ Head and Neck Surgery (VUmc)				
Börjesson P.K.E. *	Detection and therapy of head and neck cancer with radiolabeled anti-CD44v6 monoclonal antibodies	van Dongen / de Bree	2000	1
Graveland A.P.	Molecular diagnosis of head and neck squamous cell carcinoma (HNSCC)	Brakenhoff	2005	3
Kemp, de S.R.	Determinants of chemotherapy sensitivity	Braakhuis / Brakenhoff	2007	1
Schaaij-Visser B.M. *	Biomarker discovery for head and neck cancer. A proteomics approach	Brakenhoff	2004	4
Paramita D. *	Humoral immune responses to Epstein-Barr virus early antigen and tumor associated antigen in nasopharyngeal carcinoma	Middeldorp JM	2006	3
Plas, van der M.	Identification of oncogenic microRNAs and classical cancer genes involved in head and neck squamous cell carcinoma by a functional genomics approach	Brakenhoff / Braakhuis	2008	3

Name	Title of the project	Supervisor	Start	Fund
Pathology (VUmc)				
Bierkens M.	Genetic profiling of CIN 3 lesions diagnosed in the subsequent screening round following screening by HPV testing and cytology	Snijders / Steenbergen	2007	1
Bosch L.J.W.	Methylation for Early Colorectal Cancer Detection	Meijer	2005	4
Groen F.L.M. de	Identification of novel oncogenes/oncomirs located at 13q involved in the progression of colorectal adenoma to carcinoma	Meijer	2010	1
Henken F.E.	Defining the essential molecular pathways involved in cervical carcinogenesis	Snijders	2005	1
Hoebe E.K.	Role of soluble BARP1 oncoprotein in Epstein-Barr virus driven carcinogenesis and its functional inhibition by antibodies	Middeldorp	2007	3
Lavaei M.	Proteomics of exosomes secreted by cancer cell lines	Jimenez CR	2010	3
Postma C.*	Chromosomal instability in colorectal cancer	Meijer	2006	
Reinen E.	Genetic profiling for risk assessment of preneoplastic endobronchial lesions	Snijders / Smit	2007	3
Rijkaart D.	Stratifying high-risk HPV positive women for risk of CIN 3 and cervical carcinoma by HPV transcript analysis	Snijders / Meijer	2006	3
Scherpenisse M.	Immunity against Human Papilloma Virus	Meijer	2008	3
Scholten, K.B.J. *	Adoptive transfer of tumor specific T-cells for the treatment of cervical cancer: Generation of HPV specific T-cells	Meijer	2001	3
Thuijl H.F. van	Chromosomal aberrations associated with progression characteristics of low-grade glioma patients	Heimans	2010	3
Turksma A.	Towards adjuvant immunotherapy for squamous cell carcinoma	Hooijberg / Meijer / Leemans	2007	3
Wilde, de J. *	Cervical carcinogenesis: unraveling of the multistep pathways using well-defined clinical material and in vitro cell culture model systems	Snijders/ Steenbergen	2002	1
Wildeman M.	Early detection of primary and recurrent nasopharyngeal carcinoma (NPC) using (anti-) EBV based tumor markers and option	Middeldorp	2008	3
Wit, de M.	Molecular imaging of colorectal cancer	Meijer / Fijneman	2006	4
Surgery (VUmc)				
De Cuba E.	Peritoneal metastases from colorectal carcinoma; Diagnostic markers to identify patients that will benefit from radical surgical resection	Bonjer	2010	1
Biomedical Engineering and Physics (AMC/UvA)				
Bremmer, R.	Reflectance Spectroscopy on Ageing Blood Stains	Van Leeuwen	2007	
Bruin, de D.M.	Reflectance Spectroscopy on Ageing Blood Stains	Van Leeuwen	2007	
Kodach V.	IR swept source for high resolution functional imaging in medicine	Van Leeuwen	2007	
Cell Biology & Histology (AMC/UvA)				
Gentek R.	Signaling partners of Notch in oncogenesis	Kapsenberg / Amsen	2008	1
Center for Experimental Molecular Medicine (AMC/UvA)				
Balzarolo M.	Regulation of TRAIL in immune cells	Wolkers/ Medema	2008	
Borovski T.	Chromosomal aberrations and cancer stem cells	Medema	2006	3
Colak S.	Cancer stem cells in colon carcinoma; their flexibility, role in tumor growth and therapy resistance	Medema	2008	

Name	Title of the project	Supervisor	Start	Fund
Damhofer H.	Pranceatic cancer stem cells	Medema / Bijlsma	2010	1
Guadagnoli M.	TNF ligands in cancer	Medema	2007	
Kemper K.	Signaling and marker expression of colon cancer stem cells	Medema	2006	1
Lascano V.	Cancer stem cells in colon carcinoma; their flexibility, role in tumor growth and therapy resistance	Medema	2008	
Mullauer F.B.	Inventory of the anti-cancer efficacy of the plant-derived compound Betulinic acid and the clarification of the mechanisms underlying its induction of tumor-specific apoptosis	Medema	2005	3
Potze L.	Applicability and mechanism of Betlinic Acid induced tumor killing	Medema	2009	3
Prasetyanti P.R.	Survival and differentiation of Colon Cancer Stem Cells	Medema	2010	3
Shi K.	Role of Blood coagulation in pancreatic cancer	Richel / Spek	2010	1
Sousa E Melo, de F.	Epithelial mesenchymal interaction in colorectal cancer	Medema	2008	
Tuynman J.B. *	A phase II study on the effects of celecoxib on several pharmacodynamic endpoints, including activity of the Wnt/b-catenin pathway, apoptosis, proliferation, and angiogenesis in sporadic colerectal polyps and colorectal cancer in human	Richel/ van Deventer	2002	3
Vermeulen L. *	Wnt signalling and cancer stem cells	Medema	2006	2
Zimberlin C.D.	Mouse models for colorectal cancer	Medema / Bots	2010	1
Clinical chemistry (AMC/UvA)				
Besancon O.G.	Preclinical screening of drug combinations for neuroblastoma	Caron/ Tytgat/ Kuilenburg	2008	3
Cuperus R.	Modulation of fenretinide induced cell death in neuroblastoma	Caron / Kuilenburg	2004	
Dermatology (AMC/UvA)				
Boorn, van den J.G. *	Vitiligo and melanoma: from breaking tolerance to autoimmunity	Bos/ Melief/ Luiten	2005	2
Gastroenterology (AMC/UvA)				
Davelaar A.L.	Proteases as biomarkers and analytical tools in inflammatory diseases of the gastro-intestinal tract associated cancers	Fockens/ Krishnadat	2008	1/3
Luijtgarden, van de W.	Evaluation of Dendritic cell immunotherapy in combination with Curcumin for treating esophageal cancer	Krishnadat	2009	
Pacha A.F.	Evaluation of Dendritic cell immunotherapy in combination with Curcumin for treating esophageal cancer	Krishnadat	2008	
Westra W.	Prospective evaluation of genetic abnormalities by DNA FISH in a Barrett cohort	Krishnadat	2008	
Human Genetics (AMC/UvA)				
Ammerlaan A.C.J.	Genetic profiling of gliomas and their recurrences for improvement of diagnosis and prognosis	Hulsebos / Versteeg	2002	3
Both J.	Role of oncogenes in chromosome region 17p11.2-p12	Baas/ Hulsebos	2007	3
Bunt J.	Role of OTX2 in medulloblastoma	Versteeg/ Kool	2005	1
Gierman H.J. *	The human genome: understanding functional nuclear organisation from landmarks in the human transcriptome	Versteeg	2003	1
Groningen, van T.	The role of Notch signalling in Neuroblastoma	Versteeg	2008	2
Lamers F.	Drug targets in the apoptotic route in Neuroblastoma	Versteeg/ Caron/	2007	4
Nowakowska N.	Drugging oncogenic pathways in neuroblastoma	Versteeg/ Geerts	2009	

Name	Title of the project	Supervisor	Start	Fund
Revet I.M. *	The role of the MEIS homeobox genes in neuroblastoma pathogenesis	Versteeg	2003	3
Pathology (AMC/UvA)				
Bende R.J. *	B cell biology and the development of mature B cell lymphomas	Van Noesel	2001	1
Groen R.W.J. *	Microenvironmental regulation of Multiple Myeloma and Malignant Lymphoma	Pals / Spaargaren	2003	2
Hoogeboom R.	Identification of antigen receptor ligands of B-cell lymphocytic leukemia immunoglobulin-homology groups	Van Noesel/ Bende	2007	3
Keimpema, van M.	The role of the forkhead transcription factor FOXP1 in B-cell non-Hodgkin lymphoma	Pals/ Spaargaren	2008	3
Mackovicová K.	Targeting of Activation-induced Cytidine Deaminase (AID) dependent DNA Double-stranded Breaks and Long-range DNA interactions in Immunoglobulin Class Switch Recombination, Chromosomal Translocations and B-cell Lymphoma	Van Noesel / Guikema	2010	1
Reijmers R. *	The role of heparan sulfate proteoglycans in B cells and Multiple Myeloma	Pals/ Spaargaren	2003	2
Rooij, de M.	The role of N-cadherin in Multiple Myeloma	Pals/ Spaargaren	2009	1
Slot L.	Chronic antigenic stimulation and development of low-grade B cell non-Hodgkin (NHL) lymphomas	Van Noesel / Bende	2010	3

Theme 2: Experimental Clinical Research

Experimental therapy (NKI)				
Broek, van der S.	Genetic determinants of survival and second breast cancer development in premenopausal breast cancer patients	Van 't Veer	2009	3
Deenen M.	Clinical pharmacology and pharmacogenetics of fluoropyrimidine anti-cancer agents	Schellens/Beijnen	2006	4
Devriese L.	Pharmacodynamics of anti cancer treatment	Schellens	2008	1
Hasselt, van C.	Population PK-PD-modelling in oncology	Schellens	2009	4
Jong, de M.	Prediction of local control after radiotherapy in head and neck cancer	Begg	2007	3
Kok M. *	Molecular prediction of therapy outcome in breast cancer	Van 't Veer	2004	4
Leijen S.	Development of combination therapy with anti cancer drugs	Schellens	2008	4
Mook S.	Prognostic markers in breast cancer	Van 't Veer	2005	2
Pramana J.	Gene expression profiling to predict outcome after chemoradiation in head and neck cancer	Begg	2005	3
Seeman I.	The role of endoglin in induction and repair of cardiovascular damage after radiation alone or in combination with trast	Stewart / v. Leeuwen / Mummery	2008	3
Stuurman R.	Oral pharmacology of taxanes	Schellens	2009	4
Verhagen C.	Fanconi anemia pathway defects in HNSCC	Begg	2008	1
Medical Oncology (NKI)				
Frederix F.	Cost effectiveness of breast cancer therapies	Schellens	2009	4
Backer, de R.	Clinical pharmacological with wee 1 inhibitor MK1775	Schellens	2010	4
Boshuizen R.	Selectikine/EMD malegrant pleural effusion	Van der Heuvel	2009	4

Name	Title of the project	Supervisor	Start	Fund
Dubbelman A.	ADME and main balance of anticancer drugs	Schellens/Beijnen	2008	4
Jongh, de E. #	Effectivity anti-cancer therapy	Schellens	2007	4
Keizer R.	Population pharmacokinetics and pharmacodynamics of investigational anti-cancer agents	Schellens/Beijnen	2006	4
Meulenaar J.	Drug formulation and clinical testing of anticancer drugs	Schellens / Beijnen	2008	4
Moes J.	Oral Taxanes: pharmaceutical and clinical development group pilot programme transetinal onderzoek	Schellens/Beijnen	2007	2
Noll, van der N.	Clinical Pharmacology of novel tyrosine kinase inhibition	Schellens	2010	4
Pengel K.	CTMM breast care	Gilhuijs	2009	4
Schaake E.	Individualised therapy in thoracic malignancies	Burgers	2009	4
Swellengrebel M.	Optimizing peri-operative treatment of rectal cancer	Cats/Marijnen	2008	4
Uyterlinde W.	Supportive care in the treatment of NSCLC	v.d. Heuvel	2008	1
Wessels R.	Optical vuvar biopsy by optical coherence tomography (DCT)	M. van Beurden	2010	1
Pharmacy and Pharmacology (NKI)				
Fan L.	The impact of ABC transporter in the Blood-Brain Barrier on the brain penetration of drugs and their efficacy against in	Beijnen	2009	4
Koolen S.	Oral administration of anti-cancer agents	Schellens/Beijnen	2006	4
Psychosocial Research and Epidemiology (NKI)				
Boekel N.	Cardiovascular morbidity and mortality in breast cancer survivors	van Leeuwen	2008	3
Eggermond, van A.	Long term risk of second hand cancer and cardiovascular disease followeing treatment of Hodgins lymphoma	Floor van Leeuwen	2009	3
Eijzinga W.	Identification of psychosocial problems and perceived need for support in cancer genetics	Bleiker	2008	3
Kemperman M.	CONNECT Cognition and the Neural Network: Effect of Chemotherapy	Van Leeuwen	2010	1
Kuijpers W.	ACARE2 MOVE. IT supported patient empowerment	Van Harten	2010	3
Lammens C. *	LFS-VHI-study -> Psychosocial aspects of genetic testing in families at high risk of multiple tumors	Aaronson	2005	3
Lent, van W.	Improving the efficiency of oncology hospital care process with business etc	Van Harten	2006	4
Menning S.	Structural biochemical and functional indices of CF induced cognitive deficits in concepts	Schagen	2010	3
Nimwegen, van R.	Long term cardiovascular risks after treatment for Hodgkin Lymphoma	Van leeuwen	2010	3
Pijpe A. *	Gene-environment interactions in BRCA1/2 breast/ovarian cancer families	Floor van Leeuwen	2004	3
Retèl V.	Constructive Technology Assessment of gene expression profiling for breast cancer patients	Van Harten	2006	2
Rosmalen, van A	The role of early life-style factors in the etiology of breast cancer	Rookus	2001	4
Schilder C. *	Assessment of neuropsychological sequelae of tamoxifen and exemestane in postmenopausal women with	Schagen	2003	4
Spaan M.	OMEGA, long term risk of cancer after ovarian stimulation for in-vitro fertilization	Van Leeuwen	2010	3
Verloop J.	Long-term effects f exposure to DES in utero on the risk of hormone-related cancers	Van Leeuwen	2001	3
Waart, van H.	Effectivities of physical exercise	Aaronson	2009	3

Name	Title of the project	Supervisor	Start	Fund
Wevers M.	Behavioral and psychosocial effects of rapid genetic counseling and testing in newly diagnosed breast cancer patients	Aaronson	2008	4
Radiotherapy (NKI)				
Boer, de J.	image guided correction strategies to optimize RT precision	Sonke	2006	3
Bohoslavsky R.	Probabilistic based treatment planning with biological objectives for high dose high-precision RT of prostate cancer	van Herk	2008	3
Chen W.	Neoadjuvant drug treatment for breast cancer-response prediction and response monitoring: breast care	Sonke	2009	4
Dees-Ribbers H.	High precision image guided RT for bladder cancer	Van Herk	2008	3
Kranen, van S.	High precision radiotherapy in the presence of anatomical deformations	Van Herk	2005	3
Kruis M.	Motion compensation in YD PET	Boellaard	2009	4
Leij, van der F.	Image guided pre operative accelerated partial breast radiation refining radiotherapy sensitivity	Elkhuizen	2010	3
Nijkamp J.	Optimizing radiotherapy treatment of rectal cancer patients	Verheij	2009	1
Smitsmans M. *	Image guided RT of the prostate	Van Herk	2003	4
Gastroenterology (VUmc)				
Pas, van der M.	To study possibilities of fluorescence as tool to optimise staging and preoperative localisation of colon carcinoma	Meijerink	2007	2
Water, van de J.M.W.	Predicting T-cell lymphoma development in refractory coeliac disease patients by profiling of apoptosis pathways in intestinal T-lymphocytes	Mulder / Meijer	2007	1
Hematology (VUmc)				
Alhan C.	Role of flow cytometry in the diagnosis and prognostication of myelodysplastic syndromes	v.d. Loosdrecht	2008	4
Ancker, van den W.	Optimizing strategies in dendritic cell vaccination in myeloid leukaemia	v.d. Loosdrecht / Ossenkoppele	2006	1
Issa D.E.	Treatment and survival of indolent and aggressive NHL patients; population based studies in the Netherlands	Huijgens	2009	4
Luijn, van M.	Regulation of MHC class-II in acute myeloid leukemia and its impact on immunosurveillance	v.d Loosdrecht / Ossenkoppele	2006	3
Niewerth D.	Application of bortezomib in pediatric acute lymphoblastic leukemia	Kaspers / Jansen	2009	3
Terwijn M.	Detection of residual leukemic stem cells during minimal residual disease in AML	Schuurhuis / Ossenkoppele	2006	3
Wongergem M.J.	Can transformation of indolent lymphoma be detected at an early stage by PET scanning?	Huijgens / Hoekstra	2006	1
Medical Oncology (VUmc)				
Azjli K.	TNF ligands in cancer: TRIAL for cancer therapy	Peters	2008	3
Bijnsdorp I.*	Enhancement of trifluorothymidine cytotoxicity by docetaxel	Peters	2005	3
Giovannetti E.	Correlation of cytidine deaminase and DNA repair genes polymorphisms with response and survival in gemcitabine/cisplatin-treated advanced non-small cell lung cancer patients	Peters	2007	4
Gotink K.J.	Sensitivity and resistance of tumor cells to the antiangiogenic tyrosine kinase inhibitor sunitinib	Verheul	2008	3

Name	Title of the project	Supervisor	Start	Fund
Kuipers L.	Cancer therapy with the proteasome inhibitor Bortezomib and the death ligand TRAIL for non-small cell lung cancer	Peters	2008	3
Lam S.W.	A multicenter, randomized phase II trial of paclitaxel plus bevacizumab versus paclitaxel, bevacizumab plus capecitabine in HER2-negative locally recurrent or metastatic breast cancer	Boven	2010	4
Schulkens I.	Exploring the role of endothelial galectins in tumor angiogenesis	Griffioen	2009	3
Van Riel J.M.G.H. *	Hepatic arterial chemotherapy for liver metastases of colorectal cancer	Boven	2006	3
Vroling L.	Circulating endothelial cells as markers for anti-angiogenic therapy	Broxterman	2005	3
Walraven M.	Platelet proteomics for cancer biomarker discovery	Verheul	2008	3
Neurology (VUmc)				
Bosma I.*	Health-related quality of life and neurocognitive functioning of long-term surviving high-grade glioma patients	Klein / Stam / Postma	2004	4
Douw L. *	Changes in functional connectivity after tumor resection in brain tumor patients: a magnetoencephalography study	Stam / Reijneveld	2008	3
Froklage F.	Assessment of blood-brain barrier function in pharmaco-resistant patients with tumor-related epilepsy	Reijneveld	2008	2
Sizoo E.	Health-related quality of life in high-grade glioma patients and their partners in the end-of-life phase	Taphoorn	2008	3
Nieuwenhuizen, van D.	Quality of life and neurocognitive functioning in meningioma patients	Reijneveld	2008	1
Neurosurgery (VUmc)				
Badr C.*	Bioluminescence imaging for discovery and characterization of novel glioma therapeutics	Würdinger / Noske	2008	1
Caretti V.	Brainstem tumors: development of anti-tumor drugs for convection enhanced delivery	Kaspers / Vandertop	2008	3
Hiddingh L.	Development of preclinical pediatric brain tumor imaging models	Würdinger	2010	3
Idema S.	Improving oncolytic viral therapy for glioma	Dirven / Lamfers	2003	4
Nuclear Medicine and PET Research (Vumc)				
Cheebsumon P.	Effects of image reconstruction, heterogeneity and F18-FDG kinetics on oncological response evaluation with PET	Boellaard / Smit	2008	3
Makris N.	PET methodology: quantification of long-lived PET tracers in oncology and immunology	Boellaard	2010	4
Langen, de A.J.	Evaluating therapeutic impact of induction therapy for locally advanced NSCLC with molecular imaging	Hoekstra	2005	1
Rizvi S.N.	Qualifying imaging biomarkers for response evaluation in cancer	Hoekstra	2010	4
Veldt, van der A.A.M.	PET imaging of [11C]docetaxel kinetics: part I, the role of bioavailability of [11C]docetaxel in predicting response in breast cancer	Hendrikse	2007	3
Ophthalmology (VUmc)				
Marees T. *	Second primary malignancies and excess mortality after retinoblastoma	Van Leeuwen/Ringens	2006	3
Oral and Maxillofacial Surgery and Pathology (Vumc)				
Dekker H.	Peri-implantitis, implant loss and radio-osteomyelitis in head and neck tumor patients	Bloemena	2010	3

Name	Title of the project	Supervisor	Start	Fund
Orthopaedics (VUmc)				
Posthuma de Boer J.	Treatment of osteosarcoma lung metastasis through targeted therapy	Kaspers / van Beusechem	2008	4
Otolaryngology / Head and Neck Surgery (VUmc)				
Bruijn, de M.	Objective speech assessment in head and neck cancer: acoustic-phonetic and feature analyses by a neural network	Verdonck-de Leeuw	2008	3
Crossen I.C.	Prevention of speech, swallowing, and shoulder impairment after treatment for head and neck cancer	Verdonck-de Leeuw	2009	4
Cohen R.	The selective targeting of angiogenesis and of tumour stroma	Van Dongen / de Bree / Leemans	2008	2
Flach G.B.	The sentinel node procedure in head and neck cancer: clinical value and potential technical improvements / Aspiration cytology and sentinel node biopsy in the detection of occult lymph node metastases of early oral and oropharyngeal cancer	De Bree / Van Dongen	2007	3
Gogh, van C.D.L.	Voice therapy for patients with voice problems after treatment for early glottic cancer	Mahieu	2002	2
Lo Galbo A.M.	Hypothyroidism after treatment for laryngeal cancer	Leemans	2005	1
Heuveling D.	Improvement of the sentinel node procedure in head and neck cancer by PET-CT lymphoscintigraphy, optical techniques and minimal invasive surgery. Molecular targeting of intracellular proteins in cancer	De Bree / Van Dongen	2008	4
Oskam I.M.	Health related quality of life in head and neck cancer patients	Leemans	2004	1
Putten, van der L.	FDG-PET for avoidance of futile direct laryngoscopies under general anesthesia with taking of biopsies in patients with suspicion on recurrent laryngeal carcinoma after radiotherapy	Leemans	2005	3
Rietbergen M.	Clinical significance of human papillomavirus infection in oropharyngeal squamous cell carcinoma	Brakenhoff	2009	3
Senft A.	Screening for distant metastases and second primary tumors with FDG-PET (the school study)	Leemans	2002	2
Tijink B.M. *	Antibody-based therapy with emphasis on head and neck cancer	Van Dongen / de Bree / Leemans	2003	3
Vosjan M.J.W.D.	Development of dual-specific nanobodies for cancer diagnosis and treatment	Van Dongen	2008	2
Zeeburg, van H.J.T. *	Oncolytic adenoviruses for treatment of oral cancer and precancer in sporadic and genetically predisposed patients	Brakenhoff	2006	4
Pathology (VUmc)				
Dijkstra M.	Stratifying high-risk HPV positive women for risk of CIN 3 and cervical carcinoma by HPV transcript analysis	Snijders	2008	1
Goos J.A.C.M.	Personalized therapy in recurrent colorectal cancer	Hoekstra / Meijer	2009	3
Haan J.C.	Prediction of response to drug therapy in advanced colorectal cancer based on DNA copy number profiles of primary tumors	Meijer / Ylstra	2007	3
Kocken M.	A retrospective longitudinal clinical cohort study to investigate HPV testing post-treatment and the risk of recurrence of (cervical) disease	Meijer	2008	3
Krijgsman O.	Clinical and biological relevance of focal aberrations in colorectal cancer	Meijer	2008	3
Mollers M.	HPV infections and immune status in a cohort of girls who are eligible for the national HPV immunisation	Meijer	2009	3

Name	Title of the project	Supervisor	Start	Fund
Rijkaart D.#	Human papillomavirus infection and cervical cancer; epidemiology and screening	Meijer	2008	4
Schütze D.M.	Comprehensive analysis of the long-term oncogenic capacity and in vitro transforming property of the 15 high-risk human papillomavirus types (hrHPVs)	Snijders	2009	3
Snellenberg S.	Development and clinical validation of a methylation marker set for the triage of hrHPV positive women	Snijders	2009	3
Strooper L. de	Stratifying high-risk HPV positive women for risk of CIN 3 and cervical carcinoma by methylation analysis	Heideman	2010	3
Uijterwaal M.	Simplified monitoring post-treatment CIN 2/3 women by molecular testing for hrHPV and methylation markers (SiMoNaTh)	Meijer	2010	3
Verhoef V.	HPV self-sampling offered to screening non-attendees	Meijer	2010	3
Verweij F.J.	Involvement of EBV gene products in exosome-mediated tumor immune escape	Middeldorp	2009	3
Voorham Q.J.M.	Increasing sensitivity for detection of high risk flat adenomas in population screening for colorectal cancer	G.A. Meijer	2006	3
Pediatrics (VUmc)				
Bachas C.	Characterization of relapsed acute myeloid leukemia	Cloos/ Schuurhuis	2007	1
Blufpand H.N.	Carboplatin study: assessment and optimization of carboplatin exposure in pediatric oncology using different markers of kidney function	Bökenkamp	2010	4
Braam K.I.	Silicone gel sheet to improve cosmetic outcome of scar after removal of implantable central venous access device (ICVAD) in childhood cancer survivors	Van Dulmen-den Broeder/Kaspers	2007	4
Franke N.	Drug resistance in childhood leukemia	Cloos / Kaspers	2006	4
Gordijn M.S.	Dexamethasone and function of the HPA axis in children after treatment for Acute Lymphoblastic Leukemia; relation to sleep	Kaspers	2009	4
Jansen M.H.A.	Towards comprehensive therapy for diffuse intrinsic pontine gliomas in children	Kaspers	2009	4
Kors W.A.	Retinoblastoma	Cloos	2005	1
Krebber A.M.H.	A stepped care programme in patients with high distress after treatment for head and neck cancer	Verdonck-de Leeuw	2008	3
Litsenburg, van R.	ALL-10 treatment in acute lymphoblastic leukemia in children: a study into adjustment and quality of life	Kaspers	2006	1
Mir S.E.	Therapeutic potential of histone deacetylase inhibitors in the treatment of Medulloblastomas: from anticancer drugs to neuroprotective agents / Role HDACs in childhood brain tumors	Kaspers / Cloos	2007	2
Overbeek A.	Reproductive function, ovarian reserve, and risk of premature menopause in female childhood cancer survivors: a nationwide study	Voskuijl	2008	3
Vuurden, van D.G.	Targeted therapy in pediatric brain tumors	Kaspers	2005	1
Pulmonology (VUmc)				
Lind J.	Management of advanced Non-Small Cell Lung Cancer: moving towards a more individualised approach	Smit	2007	3
Phernambucq E.	Multimodality treatment in NSCLC	Smit	2008	3
Radiology (VUmc)				
Graaf, de P.	Clinical and experimental high resolution ocular MR Imaging: towards improved detection of retinoblastoma tumor extent	Castelijns	2006	3

Name	Title of the project	Supervisor	Start	Fund
Ljumanovic R. *	Prognostic value of MRI-determined lymph node parameters in development of distant metastases in head and neck carcinoma	Castelijns	2003	3
Meijerink M. *	Novel dynamic imaging methods and image-guided ablative therapies of liver tumors	Van Kuijk	2006	1
Rodjan F.	Optimization of MR imaging studies in retinoblastoma patients	Castelijns	2010	3
Radiotherapy (Vumc)				
Haasbeek C.J.A. *	Image-guides stereotactic radiotherapy for early stage lung cancer: techniques and clinical outcomes	Senan	2006	1
Spoelstra F.O.B. *	Optimization of image-guided radiotherapy (IGRT) for lung cancer	Senan	2006	2
Reumatology (VUmc)				
Verbrugge C.S.E	Proteasome inhibitor targeting of the (immuno)proteasome: effects on immune effector cells and therapeutic consequences for cancer and chronic inflammatory diseases	Dijkmans / Jansen	2008	1
Experimental Immunology (AMC/UvA)				
Heer, de K.	Kinetics and homing of CLL cells	Van Oers/ Eldering	2010	
Jak M.	Immunotherapy for B-CLL in human CD20 transgenic mice	Van Oers/ van Lier	2007	4
Kampe K. #	Survival signals by distinct TNF-family members: the role of differential NF- κ B signaling in biology and drugresistance of chronic lymphocytic leukemia	Van Oers/ Eldering	2009	
Raa, te D.	Improving Outcome of P53 Dysfunctional Chronic Lymphocytic Leukemia by Early Detection and Circumvention of the P53 Pathway	Eldering / Kater	2010	
Schot J.J.	Survival signals by distinct TNF-family members: the role of differential NF- κ B signaling in biology and drugresistance of chronic lymphocytic leukemia	Eldering / Kater	2009	
Tonino S.	The role of p73 in apoptosis regulation and drugtherapy in CLL	Van Oers/ Kater	2006	
Tromp J.	The Noxa/Mcl-1 axis as therapeutic target in CLL	Van Oers/ Eldering	2007	
Gastro-enterology & Hepatology (AMC/UvA)				
Barendse R.	TREND trial: TRansanal endoscopic microsurgery vs. ENDoscopic Mucosal Resection for large rectal adenomas	Fockens/ Dekker	2009	2
Boparai K.	Gastrointestinal polyposis syndromes	Noesel/ Dekker	2007	
Broek, van den F. *	The role of endoscopic imaging for an improved diagnosis of colorectal neoplasia	Fockens/ Dekker	2006	4
Denters M.	Screening for CRC with repeated FOBT in the Netherlands	Fockens / Dekker	2008	2
Hazewinkel Y.	Hyperplastic polyposis syndrome: endoscopic treatment and surveillance of patients and screening of first-degree relatives	Dekker	2010	3
Kuiper T.	Colima (colorectal imaging)	Fockens/ Dekker	2009	4
Wijkerslooth, de T.	Population screening for colorectal cancer by colonoscopy or CT-colonography in the Netherlands	Fockens / Bossuyt	2008	2
Human Genetics (AMC/UvA)				
Santo E.E.	FOXO3 in neuroblastoma	Koster/ Versteeg	2007	1
Medical Oncology (AMC/UvA)				
Kleinjan A.	Cancer and (anti)coagulation	Buller / Kamphuisen / Richel	2010	1

Name	Title of the project	Supervisor	Start	Fund
Obstetrics and Gynaecology (AMC/UvA)				
Rutten M.J.	Laparoscopie ivm voorspellen primaire debulking bij ovariumcarcinoom	Kenter / Buist	2010	1/2
Pediatric Oncology (AMC/UvA)				
Aukema E.J.	Late consequences and needs of young survivors of a brain tumor and their parents	Last/Schouten/Grooten huis	2006	1
Dijk, van I.W.E.M.	Late effects of radiotherapy in childhood cancer survivors	Caron / Koning / Kremer	2007	1
Eijkelenburg, van N.	Vroege fase geneesmiddelen studies bij kinderen met kanker	Caron / Verschuur	2007	3
Engelen V.	QLIC-ON quality of life in childhood oncology	Caron / Grootenhuis, Detmar, Koopman	2005	3
Knijnenburg S.	Website aimed at childhood cancer survivors	Jaspers / Kremer	2007	3
Mulder R.	Late effects of childhood cancer survivors	Caron / Kremer	2008	3
Pal, van der H.	Cardiovascular disease after treatment for childhood cancer	Caron / van Leeuwen	2008	3
Sieswerda E.	new drug development, clinical trials and late effects	Caron/ Kremer	2007	3
Stutterheim J.	MRD monitoring at children with neuroblastoma	Caron/ Tytgat	2006	3
Psychosocial department (UvA/AMC)				
Ruiter, de M.	Pediatric research on improving speed, memory and attention	Caron / Oosterlaan/ Schouten-van Meeteren, Grootenhuis	2008	3
Bloem E. *	Understanding changes in quality of life in cancer patients; a cognitive interview approach	Sprangers / Koning	2005	3
Radiotherapy (UvA/AMC)				
Balidemaj E.	Improved regional hyperthermia delivery using hyperthermia treatment planning base don MRI data to predict and suppress treatment limiting hot spots	Crezee / Nederveen	2010	3
Chai X.F.	High precision image-guided radiotherapy for bladder cancer	Herk/ Huslof/ Bel	2007	3
Dinkla A.	Brachytherapy treatment planning: optimisation and evaluation	Koning / Bel	2010	1/4
Greef, de M.	Optimisation of regional hyperthermia delivery using a newly developed 3-D hyperthermia system and advanced hyperthermia planning techniques	Crezee / Kok (radioth/onco)	2010	
Hovingh S.	Investigation of a gene set classifier for late radiation toxicity in prostate cancer patients	Medema / Stalpers	2008	3
Rooijen, van D.	Image-guided radiotherapy using CBCT and advanced treatment planning	Koning/ Bel	2006	4
Surgery / Orthopaedic Surgery (AMC/UvA)				
Bramer J.A.M. *	Prognostic factors and late effects of treatment in localised high grade extremity osteosarcoma	Caron / Van Dijk / Schaap		
Urology (AMC/UvA)				
Barwari K.	Renal cell carcinoma	De la Rosette/ Laguna	2009	
Beemster P.	Cryosurgery of small renal tumors	De la Rosette/ Laguna/ Wijkstra	2005	1
Brand B. #	Imaging in Urology	De la Rosette	2009	
Cauberg E.	New developments in diagnostics for non-muscle invasive bladder cancer	De la Rosette/ De Reijke	2007	3
Haber P. *	Adaptation of Emerging Technologies to Urologic Oncology Applications	De la Rosette/ Laguna	2004	

Name	Title of the project	Supervisor	Start	Fund
Kummerlin I. *	Renal tumours: A study on Epidemiology, Biopsies and cytological punctures	De la Rosette/ ten Kate/Laguna	2004	
Smeenge M.	Imaging in Urology	De la Rosette/ Laguna	2009	

The image features a minimalist design with two overlapping grey shapes. The shape on the left is a triangle pointing downwards. The shape on the right is a larger, more complex polygon that overlaps the first shape. The text 'awards' and the number '5' are positioned within the right-hand shape.

awards

5

5. Awards

This chapter lists awards and honors won by staff and students involved in OOA throughout 2010. The lists are in alphabetical order of the recipients' last name.

Faculty and staff members of the OOA fulfilled numerous functions in national and international organizations, on scientific boards of scientific journals, as members of study sections, and as organizers or co-organizers of scientific meetings, workshops and congresses.

R. Agami (NKI) was awarded the 2010 ESCI Award for Excellence in Basic/Translational Research.

Y. Assaraf received a KNAW visiting Award.

T. Aukema (NKI) won the EANM Eckert & Ziegler Abstract Award 2010 at the Congress of European Association of Nuclear Medicine (EANM) in Wenen.

R.H.J. Beelen and M. Schilte (VUmc) won the award for Best poster at EuRoPD Strasbourg.

J. Beijen (NKI) was elected as a member of the KNAW, the Royal Netherlands Academy of Science.

J. Beijen (NKI) was awarded the Dr. Saal van Zwanenberg Prijs.

C. Berkers (NKI) received the 2010 Antoni van Leeuwenhoek prize because of her study of Proteasomactivity.

P. Borst (NKI) received the Gebroeders Bruinsma Erepennenning of the Vereniging tegen de Kwakzalverij.

L. van de Broek (VUmc) won the NVED poster prize 2010.

L. van de Broek (VUmc) won the ETRS poster prize 2010.

The Cancer Genomics Centre (CGC - NKI) received the 2010 Valorisation Award of the Netherlands Genomics Initiative (NGI).

E. Giovannetti (VUmc) received a EORTC-PAMM Best Poster Grant at the 31st Winter Meeting.

E. Giovannetti (VUmc) won the AISP Young Investigator Grant at the XXXIV National congress of the Italian Society for Pancreas Study (AISP) in Italy.

A.W. Griffioen (VUmc) was awarded with the Spinoza Chair of the Faculty of Medicine, University of Amsterdam.

G. Kirtschig (VUmc) won the Asia-Pacific Foundation: Clinical paper publication prize 2010; awarded by La Roche-Posay for the paper "Safety of topical corticosteroids in pregnancy".

P. Knipscheer (NKI) received a Heineken Young Scientist Award.

M. van der Kuip (VUmc) won the ESPID/Wyeth Fellowship Award.

F. van Leeuwen (NKI/VUmc) received the KWO prize of the cancer charity KWF.

H. Ovaa and T. Schumacher (NKI) received the Amsterdam Inventor Award.

I. van der Waal (VUmc) was awarded with Honorary Membership (2008) of the European Association of Oral Medicine (EAOM) at the 10th Biennial Conference in London in 2010.

I. van der Waal (VUmc) was elected as Honorary Fellow of the British Society for Oral Medicine (BSOM) at the 10th Biennial Conference in London in 2010.

I. van der Waal (VUmc) was awarded with Honorary Member (2009) of the Greek Association of Oral Medicine, announced on 16 March 2010.

faculty and staff

annex

1

Annex 1.

Faculty and staff of OOA

FACULTY

Prof.dr. N.K. Aaronson, Department of Psychosocial Research and Epidemiology, NKI (Theme 2)
Health-related quality of life assessment and behaviour in Clinical Oncology

Dr. R. Agami, Department of Tumor Biology, NKI (Theme 1)
MicroRNAs and binding protein in cancer

Dr. J.A. Aten, Department of Cell Biology and Histology, AMC (Theme 1)
Interactions of DNA double strand breaks and repair proteins in the formation of chromosome translocations and cell killing by ionizing radiation and other therapeutic agents.

Prof.dr. A. Begg, Department of Experimental Therapy, NKI (Theme 2)
Mechanism and modulation of radiosensitivity

Dr. R. Beijersbergen, Department of Molecular Carcinogenesis, NKI (Theme 1)
The RNAi strategy in target discovery

Prof.dr. R. Bernards, Department of Molecular Carcinogenesis, NKI (Theme 1)
Functional genomics

Prof.dr. A.J.M. Berns, Department of Molecular Genetics, NKI (Theme 1)
Mouse models for cancer

Prof.dr. J.H. Beijnen, Division of Pharmacology, NKI (Theme 2)
Clinical pharmacology of anticancer drugs

Dr. C.U. Blank, Department of Immunology, NKI (Theme 1 and 2)
Combating tumor immune escape and immunotherapy

Dr. E. Bleiker, Psychosocial Research and Epidemiology, NKI (Theme 2)
Psychosocial Issues in Cancer Genetics

Prof.dr. E. Bloemena, Department of Pathology, VUmc (Theme 1 and 2)
Molecular profiling of head & neck tumors

Prof.dr. J.G. Borst, Department of Immunology, NKI (Theme 1)
Lymphocyte activation and survival

Prof.dr. P. Borst, Department of Molecular Biology, NKI (Theme 1)
DNA base J

Prof.dr. E. Boven, Department of Medical Oncology, VUmc (Theme 2)
Kinase inhibitors in renal cancer

Prof.dr. R.H. Brakenhoff, Department of Otolaryngology-Head & Neck Surgery, VUmc (Theme 1 and 2)
Molecular mechanisms in precursor lesions and early stages of head & neck cancer for early detection

Prof.dr. R. de Bree, Department of Otolaryngology-Head & Neck Surgery, VUmc (Theme 1 and 2)
Molecular mechanisms in precursor lesions and early stages of head & neck cancer for early detection

Prof.dr. H.N. Caron, Paediatric Oncology, AMC (Theme 1 and 2)
Paediatric Oncology: new drug development, clinical trials and late effects

Prof.dr. J.A. Castelijns, Department of Radiology, VUmc (Theme 2)
Imaging in head and neck cancer

Dr. J.G.N.M. Collard, Department of Cell Biology, NKI (Theme 1)
Genetic control of invasion and metastasis

Dr. J. Crezee, Department of Radiation Oncology, AMC (Theme 2)
Research focus is the development of new hyperthermia techniques and development and application of hyperthermia treatment planning.

Dr. J-H. Dannenberg, Department of Gene Regulation, NKI (Theme 1)
The role of class I HDACS in transcription development and tumorigenesis

Dr. E. Dekker, Department of Gastro-enterology and hepatology, AMC (Theme 2)
Colorectal cancer and polyps: population screening, advanced colonoscopic imaging, treatment and surveillance.

Prof.dr. G.A.M.S. van Dongen, Department of Otolaryngology-Head & Neck Surgery, VUmc (Theme 1 and 2)
Molecular imaging of cancer for diagnosis in therapy selection with a focus on PET

Dr. E.F. Eldering, Department of Experimental Immunology, AMC (Theme 1)
Regulated cell death - or apoptosis- in normal and pathological B- and T-lymphocyte development.

Prof.dr. P. Fockens, Department of Gastro-enterology and hepatology, AMC (Theme 2)
Advanced diagnostic and therapeutic gastrointestinal endoscopy and colorectal cancer screening and clinical neurogastroenterology.

Dr. N.A.P. Franken, Department of Radiation Oncology, AMC (Theme 2)
Radiobiology, DNA damage response, hyperthermia, chromosome aberrations, normal tissue damage.

Dr. D. Geerts, Department of Human Genetics, AMC (Theme 1)
Developmental genes in neuroblastoma pathogenesis

Prof.dr. W.R. Gerritsen, Department of Medical Oncology, VUmc (Theme 2)
Immunotherapy of prostate cancer

Prof.dr. D.J. Gouma, Department of Surgery, AMC (Theme 2)
Development and optimization of treatment modalities for pancreatic cancer patients

Prof.dr. A.W. Griffioen, Department of Medical Oncology, VUmc (Theme 2)
Tumor angiogenesis and drug therapy

Dr. M.A. Grootenhuys, Department of Pediatrics, AMC (Theme 2)
Psychosocial consequences of childhood cancer

Prof.dr. T.M. van Gulik, Department of Experimental Surgery, AMC (Theme 2)
Experimental surgery on colon cancer liver metastases

Prof.dr. A. Hagenbeek, Department of Hematology, AMC (Theme 1 and 2)
1. Phase I, II and III clinical trials in the non-Hodgkin lymphomas (NHL) and 2. Suicide gene therapy

Dr. J. Haanen, Department of Immunology, NKI (Theme 1 and 2)
Immunotherapy and immunomonitoring

Dr. A-P Haramis, Department of Molecular Genetics, NKI (Theme 1)
Developmental roles of oncogenes and tumor suppressors in zebrafish

Prof.dr. W. van Harten, Psychosocial Research and Epidemiology, NKI (Theme 2)
Early stage technology assessment, operations research and cancer rehabilitation

Prof.dr. J.J. Heimans, Department of Neurology, VUmc (Theme 1)
miRNAs regulating angiogenesis in gliomas

Prof.dr. M. van Herk, Department of Radiotherapy, NKI (Theme 2)
Radiotherapy: Image acquisition and processing

Dr. J. Hilkens, Department of Molecular Genetics, NKI (Theme 1 and 2)
Gene involved in breast cancer progression and metastasis

Prof.dr. O.S. Hoekstra, Department of Nuclear Medicine, VUmc (Theme 2)
Molecular imaging using PET for therapy selection and response monitoring

Prof.dr. P.C. Huijgens, Department of Haematology, VUmc (Theme 1 and 2)
Targetted therapies in myeloid leukemia

Dr. T.J.M. Hulsebos, Department of Neurogenetics, AMC (Theme 1)
Molecular genetics of nervous system tumors and osteosarcomas

Dr. M. Innocenti, Department of Cell Biology, NKI (Theme 1)
Actin dynamics in cancer cells

Dr. H. Jacobs, Department of Immunology, NKI (Theme 1)
DNA damage tolerance, programmed mutagenesis and lymphomagenesis

Dr. J. Jacobs, Department of Molecular Genetics, NKI (Theme 1)
Chromosome end protection by telomeres

Dr. K. Jalink, Department of Cell Biology, NKI (Theme 1)
Biophysics of cell signaling

Prof.dr. H. Joenje, Department of Human Genetics, VUmc (Theme 1)
Fanconi pathway in oncogenesis

Dr. J. Jonkers, Department of Molecular Biology, NKI (Theme 1)
Mouse models of breast cancer

Prof.dr. A.H.C. van Kampen, Department of Clinical Epidemiology, Biostatistics and Bioinformatics, AMC (Theme 2)
Medical Bioinformatics and e-Bioscience

Prof.dr. G.J. Kaspers, Department of Paediatrics, VUmc (Theme 2)
Innovative therapies in childhood myeloid leukemia

Prof.dr. G.G. Kenter, Department of Obstetrics and Gynaecology, AMC/VUmc/NKI (Theme 2)
Immunity against hpv (human papilloma virus); Peptide vaccin that must stimulate the activities of T-cells; Side effects of gynaecological operations on the long term

Prof.dr. C.C.E. Koning, Department of Radiotherapy, AMC (Theme 2)
Radiotherapy and chemo-radiation therapy

Dr. M. Kool, Department of Human Genetics, AMC (Theme 1)
Analysis of the embryonal tumors medulloblastoma and rhabdomyosarcoma

Prof.dr. Y. van Kooyk, Department of Molecular Biology and Immunology, VUmc (Theme 1 and 2)
Glycosilation and tumor immunology

Dr. K.K. Krishnadath, Department of Gastroenterology and Hepatology, AMC (Theme 1)
Understanding the inflammation-dysplasia-carcinoma sequence within the gastrointestinal tract

Dr. A.B.P. van Kuilenburg, Department of Clinical Chemistry, AMC (Theme 1 and 2)
Inborn errors of purine and pyrimidine metabolism and paediatric oncological diseases

Prof.dr. A.A. Lammertsma, Department of Nuclear Medicine, VUmc (Theme 2)
Standardization and quantification of PET image analysis

Prof.dr. C.R. Leemans, Department of Otolaryngology-Head & Neck Surgery, VUmc (Theme 2)
Molecular mechanisms in precursor lesions and early stages of head & neck cancer for early detection

Prof.dr. A.G.J.M. van Leeuwen, LaserCenter, AMC (Theme 2)
Biomedical photonics for functional and molecular imaging

Prof.dr. F.E. van Leeuwen, Psychosocial Research and Epidemiology, NKI (Theme 2)
Epidemiology

Dr. F. van Leeuwen, Department of Gene Regulation, NKI (Theme 1)
Epigenetic regulation of gene expression

Dr. S. Linn, Department of Molecular Biology, NKI (Theme 2)
Molecular dissection of breast and lung cancer by differential drug sensitivity

Prof.dr. M. van Lohuizen, Department of Molecular Genetics, NKI (Theme 1)
Role of polycomb-group genes in transcriptional repression and stem cell fate and tumorigenesis

Dr. R.M. Luiten, Department of Dermatology, AMC (Theme 2)
Immunology of melanoma and autoimmune or inflammatory skin diseases

Prof.dr. J.P. Medema, Laboratory of Experimental Oncology and Radiobiology, AMC (Theme 1)
Cell death induction and resistance in tumor cells and cancer stem cells

Prof.dr. C.J.L.M. Meijer, Department of Pathology, VUmc (Theme 1 and 2)
HPV based early detection of cervical cancer precursors

Prof.dr. G.A. Meijer, Department of Pathology, VUmc (Theme 1 and 2)
Molecular classification for early detection and personalized therapy in gastrointestinal (colon, gastric) cancer

Prof.dr. H. Meijers-Heijboer, Department of Clinical Genetics, VUmc (Theme 1)
Genetic cancer predisposition with a focus on breast cancer

Dr. R. Michalides, Department of Cell Biology, NKI (Theme 1)
Estrogen receptor and breast cancer

Prof.dr. W.H. Moolenaar, Department of Cell Biology, NKI (Theme 1)
Lipid growth factor signaling

Prof.dr. J.M. Middeldorp, Department of Pathology, VUmc (Theme 1 and 2)
EBV associated carcinogenesis and early detection

Prof.dr. C.J.J. Mulder, Department of Gastro-enterology and hepatology, VUmc (Theme 2)
Celiac disease associated lymphomagenesis

Prof.dr. J.J.C. Neefjes, Department of Cell Biology, NKI (Theme 1)
Antigen presentation by MHC class molecules and control of the immune response

Prof.dr. C.J.M. van Noesel, Department of Pathology, AMC (Theme 1)
1. The role of the antigen receptor in lymphoma. 2. Antigen receptor rearrangement.

Prof.dr. M.H.J. van Oers, Department of Hematology, AMC (Theme 1 and 2)
Pathogenesis and Immunotherapy of B cell malignancies

Prof.dr. C.J.F. van Noorden, Department of Pathology, AMC (Theme 1)
Proteases and protease inhibitors in cancer

Prof.dr. G.J. Ossenkoppele, Department of Haematology, VUmc (Theme 1 and 2)
Targetted therapies in myeloid leukemia

Dr. H. Ovaa, Department of Cell Biology, NKI (Theme 1)
Chemistry and biology of ubiquitin-mediated proteolysis and antigen presentation

Prof.dr. S.T. Pals, Department of Pathology, AMC (Theme 1 and 2)
Molecular pathogenesis of B cell malignancies and the role of heparan sulfates proteoglycans in tumorigenesis

Dr. A. Perrakis, Department of Biochemistry, NKI (Theme 1)
Structural biology and structural biology methods

Dr. D. Peeper, Department of Molecular Genetics, NKI (Theme 1)
Dissecting cancer cell signaling networks and identifying therapeutic cancer targets

Prof.dr. G.J. Peters, Department of Clinical Oncology, VUmc (Theme 2)
Pharmacokinetics and response prediction in oncology

Prof.dr. P.J. Peters, Department of Cell Biology, NKI (Theme 1)
Nanobiology

Prof.dr. P. Postmus, Department of Pulmonology, VUmc (Theme 2)
Targetted drug therapy in lung cancer

Prof.dr. D.J. Richel, Department of Medical Oncology, AMC (Theme 1 and 2)
New chemotherapeutic avenues for neoadjuvant and adjuvant treatment of cancer patients, targeted therapy.

Prof.dr. H.P.J. te Riele, Department of Molecular Biology, NKI (Theme 1)
DNA mismatch repair / The Fanconi anemia pathway / cell cycle checkpoints

Prof.dr. S. Rodenhuis, Department of Internal Medicine, NKI (Theme 2)
Breast cancer therapy and prediction of response

Dr. M. Rookus, Psychosocial Research and Epidemiology, NKI (Theme 2)
Epidemiology

Dr. E. Roos, Department of Cell Biology, NKI (Theme 1)
Mechanisms of metastasis

Prof.dr. J.J.M.C.H. de la Rosette, Department of Urology, AMC (Theme 2)
Improving diagnosis and treatment of Urological cancers

Prof.dr. T. Ruers, Department of Surgical Oncology, NKI (Theme 2)
Image guided surgery

Dr. S. Schagen, Psychosocial Research and Epidemiology, NKI (Theme 2)
Cognitive function in Cancer patients

Prof.dr. J.H.M. Schellens, Department of Internal Medicine, NKI (Theme 2)
Clinical pharmacology of anticancer drugs

Dr. A. Schinkel, Department of Molecular Biology, NKI (Theme 1)
Genes and proteins involved in anti cancer drug resistance and pharmacokinetics

Prof.dr. T. Schumacher, Department of Immunology, NKI (Theme 1)
Dissection and manipulating antigen-specific T cell immunity

Dr. G.J. Schuurhuis, Department of Hematology, VUmc (Theme 2)
Disease profiling CML and AMC

Prof.dr. S. Senan, Department of Radiation Oncology, VUmc (Theme 2)
Technological innovations in applied radiotherapy

Prof.dr. T.K. Sixma, Department of Molecular Carcinogenesis, NKI (Theme 1)
Structural biology of proteins involved in ubiquitin conjugation in chromatin regulation, DNA mismatch repair and nicotinic receptor signaling.

Prof.dr. B.J. Slotman, Department of Radiation Oncology, VUmc (Theme 1 and 2)
Technological innovations in applied radiotherapy

Prof.dr. E.F. Smit, Department of Pulmonology, VUmc (Theme 2)
Targetted drug therapy in lung cancer

Prof.dr. P.J.F. Snijders, Department of Pathology, Vumc (Theme 1 and 2)
HPV based early detection of cervical cancer precursors

Dr. A. Sonnenberg, Department of Cell Biology, NKI (Theme 1)
Receptors for matrix adhesion

Dr. M. Spaargaren, Department of Pathology, AMC (Theme 1)
Explore the molecular and functional aspects of: 1. chemokine- and B cell antigen receptor-signaling; 2. HGF/MET- and WNT-signaling; and 3. heparan sulfate proteoglycans (i.e., CD44v3 and Syndecan-1) and their modifying enzymes.

Dr. C.A. Spek, Department of Experimental and Molecular Medicine, AMC (Theme 1 and 2)
Blood coagulation in pathophysiology

Prof.dr. B. van Steensel, Department of Molecular Biology, NKI (Theme1)
Chromatin genomics

Dr. F. Stewart, Department of Experimental Therapie, NKI (Theme 2)
Radiation-induced vascular damage

Dr.ir. G.J. Streekstra, Department of Biomedical Engineering and Physics, AMC (Theme 2)
Development and clinical evaluation of novel imaging and image analysis methods for diagnosis, treatment planning and per-operative imaging

Prof.dr. M.J.B. Taphoorn, Department of Neurology, VUmc (Theme 2)
Quality of life in neuro oncology

Dr. L. Van 't Veer, Department of Experimental Therapie, NKI (Theme 2)
Molecular pathology and molecular epidemiology of breast and colorectal cancer

Dr. L.J. Valentijn, Department of Human Genetics, AMC (Theme1)
The role of MYCN in neuroblastoma

Prof.dr. I.M. Verdonck- de Leeuw, Department of Otolaryngology/Head and Neck Surgery, VUmc (Theme 2)
Innovative care programs in oncology

Dr. M. Verheij, Department of Radiotherapy, NKI (Theme 2)
Mechanisms, modulation and prediction of radiation-induced cell death

Prof.dr. H.W.M Verheul, Department of Medical Oncology, VUmc (Theme 1 and 2)
Angiogenesis and phosphokinase as drug targets in gastrointestinal and renal cancer

Prof.dr. R. Versteeg, Department of Human Genetics, AMC (Theme 1 and 2)
1. the molecular biology and genetic defects of several pediatric tumors (neuroblastoma, medulloblastoma and rhabdomyosarcoma) and 2. the overall organization of gene expression of the human genome.

Prof.dr. M. van de Vijver, AMC (Theme 2)
Genetic alterations and gene expression profiles of solid tumors

Dr. J. Wesseling, Department of Experimental Therapie, NKI (Theme 2)
Molecular markers to predict chemosensitivity in breast cancer

Dr. L. Wessels, Department of Molecular Biology, NKI (Theme 1)
Bioinformatics and statistics

Dr. R.M.F. Wolthuis, Department of Molecular Carcinogenesis, NKI (Theme 1)
Mechanisms of cell cycle progression in normal and cancer cells

Prof.dr.ir. H. Wijkstra, Department of Urology, AMC (Theme 2)
Minimal invasive technology in diagnoses, therapy and follow-up of uro-oncology

Dr. T. Wurdinger, Department of Neurosurgery, VUmc (Theme 1)
miRNAs regulating angiogenesis in gliomas

STAFF

Netherlands Cancer Institute

Cell Biology

Dr. J.G. Collard
Dr. M.E. Innocenti
Dr. C. Jalink
Dr. R.J.A.M. Michalides
Prof.dr. W.H. Moolenaar
Prof.dr. J.J. Neefjes
Prof.dr. P.J. Peters
Dr. H. Ovaa
Dr. E. Roos
Dr. A. Sonnenberg

Molecular Carcinogenesis

Prof.dr. R. Bernards
Dr. R. Beijersbergen
Dr. R. Wolthuis

Biochemistry

Dr. A. Perrakis
Prof.dr. T.K. Sixma

Gene Regulation

Dr. R. Agami
Dr. J-H. Dannenberg
Dr. F. van Leeuwen
Prof.dr. B. van Steensel

Immunology

Dr. C.H. Blank
Prof.dr. J. Borst
Dr. J.B.A.G. Haanen
Dr. H. Jacobs
Prof.dr. T.N.M. Schumacher

Molecular Biology

Prof.dr. P. Borst (honorary staff member)
Dr. J. Jonkers
Dr. S. Linn
Dr. H. van Luenen
Prof.dr. H. te Riele
Dr. L. Wessels

Molecular Genetics

Prof.dr. A.J.M. Berns
Dr. A.P. Haramis
Dr. J. Hilkens
Dr. J.J.L. Jacobs
Prof.dr. M. van Lohuizen
Dr. P.S. Peeper

Experimental therapy

Prof.dr. A.C. Begg
Prof.dr. J.H.M. Schellens
Dr. A. Schinkel
Dr. F.A. Stewart
Prof.dr. M.J. van de Vijver
Dr. L.J. van 't Veer

Radiotherapy

B.M.P. Aleman
Prof.dr. G.M.M. Bartelink
Dr. J.S.A. Belderbos
M. Bloemers
Dr. R.W. de Boer
Dr. E.M.F. Damen
Dr. L.G.H. Dewit
Dr. P. Elkhuizen
Dr. R.L.M. Haas
O. Hamming-Vrieze
Dr. W. Heemsbergen

Prof.dr. M. van Herk

Dr. F. Hoebbers
Dr. E.P.M. Jansen
J. Kneijens
H. Krewinkel
Dr. J. Lebesque
Dr. B.J. Mijnheer
Dr. L.M.F. Moonen
A. Navran
H. Peulen
Dr. F. Pos
Dr. C.R.N. Rasch
B. Reichgelt
Dr. P. Remeijer
Dr. N.S. Russell
J.G. Salverda
Dr. C. Schneider
Dr. J-J. Sonke
Dr. J. Stroom
Dr. B. van Triest
K. Verschueren
Dr. C. van Vliet-Vroegindewij
Dr. T. Witteveen
Dr. F.W. Wittkämper

Medical Oncology

Dr. J.W. Baars
Dr. P. Baas
Dr. A. Bergman
Prof.dr. J.H. Beijnen
Dr. C. Blank
Dr. J.P. de Boer
Dr. W. Boogerd
Dr. H. Boot
Dr. D. Brandsma
Dr. E. Brouwers
Dr. W. Buikhuizen
Dr. J.A. Burgers
Dr. A. Cats
Dr. J.B.A.G. Haanen
Dr. M van den Heuvel
Dr. A. Huitema
Dr. J.M. Kerst
Dr. M. Klous
Dr. S.C. Linn
Dr. A. Lukas
S. Marchetti
Dr. B. Nuyen
Prof.dr. S. Rodenhuis
Dr. H. Rosing
Prof.dr. J.H.M. Schellens
G. Sonke
Dr. N. Steeghs
Dr. B.G. Taal
M. Tesselaar
Prof.dr. M. Verheij
Dr. M. van der Weide

Surgical Oncology

A. Aalbers
Dr. A. Ackerstaff
Dr. C. Van As-Brooks
Dr. M-J. Baas-Vracken Peters
Dr. A.J.M. Balm
M. van der Berg
Dr. M. Van Beurden
Dr. A. Bex
P. Biewenga
Dr. M.W.M. van den Brekel
M. Brood

D.R. Buitelaar
J. ten Cate
Dr. F. van Coevorden
K. Efthymiou
Dr. J.J. Hage
Dr. C. Hahn
Prof.dr. F.J.M. Hilgers
D. Hompes
Prof.dr. S. Horenblas
S. Huissoon
M. van Huizum
L. Hulshoff
Prof.dr. G.G. Kenter
Dr. H. Klomp
M. Krap
J. Lange
Dr. P.J.F.M. Lohuis
M.A.C. Lubsen
Dr. W. Meinhardt
I. Nieuweboer-Krobotova
Dr. O.E. Nieweg
Dr. H.S.A. Oldenburg
K. Peeters
M. Piek-Hartog
Dr. H.G. van de Poel
Dr. G. Relyveld
J.M. Ronday
Dr. T. Ruers
Dr. E.J.Th. Rutgers
Dr. J. van Sandick
P.F.E. Schutte
Dr. M. Scraméck
Dr. L.E. Smeele
Dr. I.B. Tan
Dr. A.P. Timmers
A. Van Turnhout
Dr. W. Van der Veen
I. Vergouwe
Dr. V.J. Verwaal
C. Wever
Dr. L.A.E. Woerdeman
M. Wouters
B. Zupan-Kajcovski
Dr. C. Zuur

Psychosocial Research and Epidemiology

Prof.dr. N.K. Aaronson
Dr. E. Bleiker
Prof.dr. W.J. van Harten
Prof.dr. F.E. van Leeuwen
Dr. M.A. Rookus
Dr. S. Schagen

Diagnostic Oncology

P. Baars
Dr. O. Balague Ponz
A.P.E. Besnaard
Dr. E. Bleiker
Dr. J.M. G. Bonfrer
Dr. H. van Boven
Dr. K. Gilhuijs
D. Hahn
Dr. C.A. Hoefnagel
Dr. F.B.L. Hogervorst
Dr. D. de Jong
Dr. J. Kluijft
W. Koops
Dr. L. Van der Kolk
Dr. R. Kröger
C. Lange
Dr. F. Van Leeuwen
C. Loo
Dr S.H. Muller
Dr. P.M. Nederlof
Dr. W.J. Nooijen
Dr. F.A. Pameijer
Dr. R. van Pel
W. Prevoo
Dr. M. Roef
Dr. E. Rosenberg
Dr. M. Ruijs
Dr. M. Sinaasappel
Dr. F. Sivro
Dr. M. Stokkel
Dr. J. Teertstra
Dr. R.A. Valdès Olmos
Dr. L. van 't Veer
Dr. M.L.F. van Velthuisen
Dr. S. Verhoef
Dr. W. Vogel
Prof.dr. M. van de Vijver
Dr. J. Wesseling
Dr. B. van der Wiel

VU University Medical Center

Anesthesiology

Dr. R.S.G.M. Perez
Prof.dr. W.W.A. Zuurmond

Clinical Chemistry

Prof.dr. M.A. Blankenstein
Dr. C.B.M. Oudejans

Clinical Genetics

Dr. J.C. Dorsman
Dr. J.J.P. Gille
Prof.dr. H. Joenje
Prof.dr. H.E. Meijers-Heijboer
Dr. F.H. Menko
Dr. Q. Waisfisz
Dr. J.P. de Winter

Gastroenterology

Dr. A.A. van Bodegraven
Dr. R.J.F. Felt-Bersma
Prof.dr. C.J.J. Mulder
Dr. C.M.J. van Nieuwkerk

Hematology

Dr. J.M. Baalbergen
Dr. M.E.D. Chamuleau
Dr. A.M. Dräger
Prof.dr. P.C. Huijgens
Dr. J.J.W.M. Janssen
Dr. A.A. van de Loosdrecht
Prof.dr. G.J. Ossenkoppele
Dr. G.J. Schuurhuis
Dr. N. Thielen
Dr. O. Visser
Dr. J.M. Zijlstra
Dr. S. Zweegman

Medical Oncology

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Prof.dr. E. Boven
Dr. H.J. Broxterman
Dr. J. Buter
Dr. W. Dong
Dr. A.J.M. van den Eertwegh
Prof.dr. W.R. Gerritsen
Prof.dr. A.W. Griffioen
Dr. T.D. de Gruijl
Dr. C.R. Jimenez
Dr. J.J. Meulenberg
Prof.dr. G.J. Peters
Prof.dr. H. Verheul
Dr. J.J. van der Vliet

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Prof.dr. P.T. Cohen-Kettenis
Dr. E.M. van Dijk
Dr. J. Huisman
Dr. M. Klein

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Prof.dr. R.H.J. Beelen
Dr. M. van Egmond
Prof.dr. G. Kraal
Prof.dr. R.E. Mebius

Nefrology

Dr. J.W. Rùger
Dr. S.A. Nurmohamed
Dr. C.E. Douma
Dr. K. Farhat

Neurology

Prof.dr. J.J. Heimans
Dr. T.J. Postma
Dr. J.C. Reijneveld
Prof.dr. M.J.B. Taphoorn

Neurosurgery

Dr. D.P. Noske
Prof.dr. W.P. Vandertop
Dr. T. Würdinger

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Prof.dr. E.F.I. Comans
Prof.dr. G.A.M.S. van Dongen
Dr. A.A. Geldof
Dr. N.H. Hendrikse
Dr. J.D.M. Herscheid
Prof.dr. O.S. Hoekstra
Prof.dr. A.A. Lammertsma
Dr. M. Lubberink
Dr. C.F.M. Molthoff
Dr. P.G. Raijmakers
Dr. A. van Schie
Dr. G.W.M. Visser
Dr. A.D. Windhorst

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Prof.dr. G. Kenter
Dr. S. von Mensdorff-Pouilly

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Dr. A.C. Moll

Oral and Maxillofacial Surgery and Pathology

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Prof.dr. I. van der Waal

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Dr. B.M. Braakhuis
Prof.dr. R.H. Brakenhoff
Prof.dr. R. de Bree
Prof.dr. G.A.M.S. van Dongen
Dr. S.J. Erenstein-Kraay
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Dr. R.N.P.M. Rinkel
Prof.dr. I.M. Verdonck-de Leeuw
Dr. S. van Weert

Paediatrics

Dr. J. Cloos
Prof.dr. A.M. van Furth
Prof.dr. G.J.L. Kaspers
Prof.dr. A.J.P. Veerman

Pathology

Dr. R. van Baars
Dr. J.A.M. Beliën
Dr. M.C.G. Bleeker
Prof.dr. E. Bloemena
Dr. B.M.E. von Blomberg
Dr. R. van Boerdonk
Dr. M.B. Diosdado Calvo
Prof.dr. P.J. van den Elsen
Dr. N.C. van Grieken
Dr. A.H. van Hattum
Dr. E. Hooijberg
Dr. F. van Kemenade
Prof.dr. C.J.L.M. Meijer
Prof.dr. G.A. Meijer
Prof.dr. J.M. Middeldorp

Prof.dr. W.J. Mooi
Dr. L. Rozendaal
Prof.dr. R.J. Scheper
Prof.dr. P.J.F. Snijders
Dr. R.D.M. Steenbergen
Dr. F.B.J.M. Thunnissen
Dr. M.A. van de Wiel
Prof.dr. C.L. Verweij
Dr. B. Ylstra

Pulmonology

Dr. I. Bahce
Dr. A. Becker
Dr. J.M.A. Daniels
Dr. S.M.S. Hashemi
Dr. P. Lee
Prof.dr. P.E. Postmus
Prof.dr. E.F. Smit
Dr. T.G. Sutedia

Radiation Oncology

Dr. M.R. Dahele
Dr. P. Doornaert
Dr. M.V.M. Lafleur
Prof.dr. S. Senan
Prof.dr. B.J. Slotman
Dr. P. Sminia

Radiology

Prof.dr. J.A. Castelijns

Surgery

Prof.dr. J.J. Bonjer
Dr. M.A. Cuesta
Prof.dr. S. Meijer
Dr. L. te Velde

Urology

Dr. A.A. Geldof
Dr. R.J.A. van Moorselaar
Dr. A. Vis

University of Amsterdam

Biomedical Engineering and Physics

Dr.ir. G.J. Streekstra

Cell Biology & Histology

Dr. J.A. Aten

Prof.dr. C.J.F. van Noorden

Experimental Internal Medicine

Dr. C.A. Spek

Gastro-enterology & Hepatology

Dr. K.K. Krishnadath

Genetic Metabolic Diseases

Dr. A.B.P. van Kuilenburg

Human Genetics

Dr. H.A.M. Geerts

Dr. L.J. Valentijn

Prof.dr. R. Versteeg

Dr. M. Kool

Hematology

Dr. M.J. Kersten

Prof. Dr. M.H.J. van Oers

Immunology

Dr. E.F. Eldering

Dr. R.M. Luiten

LaserCenter

Prof.dr. A.G.J.M. van Leeuwen

Medical Oncology

Prof.dr. D.J. Richel

Neurogenetics

Dr. T.J.M. Hulsebos

Pathology

Prof.dr. S.T. Pals

Dr. M. Spaargaren

Prof. Dr. C.J.M. van Noesel

Pediatric Oncology

Prof.dr. H.N. Caron

Dr. A.B.P. van Kuilenburg

Radiotherapy

Dr. N.A.P. Franken

Prof.dr. C.C.E. Koning

Prof.dr. J.P. Medema

Urology

Prof.dr. J.J.M.C.H. de la Rosette

Prof.dr.ir. H. Wijkstra

international visitors

annex 2

Annex 2.

International visitors

Almouzni G., France
Assaraf Y., Israel

Balmain A., USA
Bardelli A., Italy
Barral Y., Switzerland
Beyaert R., Belgium
Bleuart, A, Belgium
Boettiger D., USA
Bogyo M., Stanford, USA
Brunet A., USA

Calin G., USA
Cools J., Belgium
Coyne J., USA

Dekker J., USA
de Lange T., USA
Dive C., UK
D'Souza-Schorey C., USA

Easton D., UK

Ferreira Moita L., Portugal
Fox B., USA
Furlong E., Germany

Gilbert N., UK
Gingeras T., USA
Goldmeyer J., USA

Hentze M., Germany
Huber L., Austria
Huelsenken J., Switzerland

Ishikawa T., Japan

Josephson L., USA

Komander D., UK
Koromilas A., Canada
Kouzarides T., UK
Krasnykh V., USA
Kraus L., USA

Low P., USA

Marcotte E., USA
Mayr C., USA
Moazed D., Boston, USA
Morris A., Lexington, USA

Nelson J., Stanford, CA, USA
Nowak-Sliwinska, P. Switzerland.

Palma D., Canada
Pommier Y., USA

Ramaswamy S., USA
Radford J., UK
Rawlins E., UK

Sansom O., UK
Schreiber H., USA
Seliger B., Germany
Shilatifard A., USA
Sparwasser T., Germany
Stewart C., Singapore
Stutz F., Switzerland

Taipale J., Finland
Tejpar S., Belgium

Ungermann C., Germany

Verhaak R., USA
Villadangos J., Australia

Walhout M., USA
White K., USA
Wynshaw-Boris T., USA

Zent R., USA
Zender L., Germany

PhD theses completed

annex

3

Annex 3.

PhD Theses completed

In 2010, 52 graduate students completed their graduate training and obtained a PhD degree. Their names, thesis titles, supervisors and institutes are listed below. The institute at which the research described in the theses was carried out is mentioned between brackets and may differ from the university where the PhD graduation took place.

Name	:	Aarts M. (NKI)
Title	:	Gene targeting by single-stranded DNA oligonucleotides in mouse embryonic stem cells.
University	:	Vrije Universiteit Amsterdam
(co)Promotors	:	Te Riele H.
Date	:	08-04-2010
Name	:	Badr C. (VUmc)
Title	:	Bioluminescence imaging in glioblastoma: monitoring of biological processes and novel therapeutics.
University	:	Vrije Universiteit Amsterdam
(co)Promotors	:	Vandertop W.P., Wurdinger T. and Tannous B.A.
Date	:	23-09-2010
Name	:	Bende R.J. (AMC)
Title	:	B cell biology and the development of mature B cell lymphomas.
University	:	University of Amsterdam
(co)Promotors	:	Van Noesel C.
Date	:	08-04-2010
Name	:	Berkers C.R. (NKI)
Title	:	Probing proteasome activity and function : cancer diagnostics and mechanism of antigen processing.
University	:	University of Leiden
(co)Promotors	:	Overkleeft H.S., Neefjes J.J. and Ovaa H.
Date	:	05-10-2010
Name	:	Bijnsdorp I.V. (VUmc)
Title	:	Mechanism of trifluorothymidine cytotoxicity and thymidine phosphorylase induced angiogenesis.
University	:	Vrije Universiteit Amsterdam
(co)Promotors	:	Peters G.J. and Kruyt F.A.E.
Date	:	09-06-2010
Name	:	Bloem E. (AMC)
Title	:	Understanding changes in quality of life in cancer patients; a cognitive interview approach.
University	:	University of Amsterdam
(co)Promotors	:	Sprangers H. and Koning C.C.E.
Date	:	03-11-2010
Name	:	Börjesson P.K.E. (VUmc)
Title	:	Radioimmunodetection and radioimmunotherapy of head and neck cancer.
University	:	Vrije Universiteit Amsterdam
(co)Promotors	:	Van Dongen G.A.M.S., Leemans C.R. and De Bree R.
Date	:	15-02-2010

Name : **Bosma I. (VUmc)**
Title : Cognitive dysfunction in glioma. Underlying mechanisms and consequences.
University : Vrije Universiteit Amsterdam
(co)Promotors : Heimans J.J., Stam C.J., Klein M. and Reijneveld J.C.
Date : 07-05-2010

Name : **Bramer J.A.M. (AMC)**
Title : Prognostic factors and late effects of treatment in localised high grade extremity osteosarcoma.
University : University of Amsterdam
(co)Promotors : Caron H.N., Van Dijk C.N. and Schaap A.
Date : 17-06-2010

Name : **Braunschweig U. (NKI)**
Title : Reading the maps: organization and function of chromatin types in Drosophila
University : University of Amsterdam
(co)Promotors : Van Lohuizen M.M.S. and Van Steensel B.
Date : 04-11-2010

Name : **De Wilde J. (VUmc)**
Title : Molecular insights in HPV-mediated transformation with emphasis on hTERT.
University : Vrije Universiteit Amsterdam
(co)Promotors : Snijders P.J.F., Meijer C.J.L.M. and Steenbergen R.D.M.
Date : 25-02-2010

Name : **Douw L. (VUmc)**
Title : Neural networks and brain tumors: the interplay between tumor, epilepsy and cognition.
University : Vrije Universiteit Amsterdam
(co)Promotors : Stam C.J., Heimans J.J., Reijneveld J.C. and Klein M.
Date : 08-11-2010

Name : **Fabius A.W.M. (NKI)**
Title : Functional identification of novel modulators of the p53 and TGF signaling networks
University : University Utrecht
(co)Promotors : Bernards R. and Beijersbergen R.L.
Date : 22-01-2010

Name : **Frederiks F. (NKI)**
Title : Function and regulation of the histone methyltransferase Dot1
University : University of Amsterdam
(co)Promotors : Van Lohuizen M.M.S. and Van Leeuwen F.
Date : 29-10-2010

Name : **Gierman. H.J. (AMC)**
Title : How chromosomal domains effect gene expression in the human genome.
University : University of Amsterdam
(co)Promotors : Versteeg R.
Date : 27-04-2010

Name : **Groen R.W.J. (AMC)**
Title : Micro environmental regulation of Multiple Myeloma and Malignant Lymphoma.
University : University of Amsterdam
(co)Promotors : Pals S.T. and Spaargaren M.
Date : 18-11-2010

Name : **Haasbeek C.J.A. (VUmc)**
Title : Image-guided stereotactic radiotherapy for early stage lung cancer: techniques and clinical outcomes.
University : Vrije Universiteit Amsterdam
(co)Promotors : Senan S., Slotman B.J. and Lagerwaard F.J.
Date : 03-03-2010

Name : **Haber P. (AMC)**
 Title : Adaptation of Emerging Technologies to Urologic Oncology Applications.
 University : University of Amsterdam
 (co)Promotors : De la Rosette J.J.M.C.H. and Laguna M.P.
 Date : 16-11-2010

Name : **Hajdo-Milasinovic A. (NKI)**
 Title : Rac1 and Rac3 in cell morphology and adhesion: brothers and foes
 University : University of Amsterdam
 (co)Promotors : Collard J.
 Date : 05-02-2010

Name : **Holstege H. (NKI)**
 Title : Characteristics of the mouse and human breast cancer genome
 University : University of Amsterdam
 (co)Promotors : Berns A.J.M., Jonkers J.M.M. and Borst P.
 Date : 10-02-2010

Name : **Kalverda B. (NKI)**
 Title : Genome function and organization in relation to the nuclear envelope.
 University : University of Amsterdam
 (co)Promotors : Van Lohuizen M.M.S. and Fornerod M.
 Date : 28-04-10

Name : **Kok M. (NKI)**
 Title : Endocrine resistance in breast cancer - Gene expression profiling and modifications of the estrogen receptor.
 University : University of Amsterdam
 (co)Promotors : Rodenhuis S., Linn S.C. and Van 't Veer L.J.
 Date : 12-02-2010

Name : **Kümmerlin I. (AMC)**
 Title : Renal tumours: A study on Epidemiology, Biopsies and cytological punctures.
 University : University of Amsterdam
 (co)Promotors : De la Rosette J.J.M.C.H., Ten Kate F.J.W., Laguna M.P. and Wijkstra H.
 Date : 11-11-2010

Name : **Lammens C.R.M. (NKI)**
 Title : Living with Li-Fraumeni syndrome & Von Hippel-Lindau disease.
 University : University of Amsterdam
 (co)Promotors : Aaronson N.K., Bleiker E.M.A. and Verhoef S.
 Date : 05-11-2010

Name : **Ljumanovic R. (VUmc)**
 Title : Prognostic value of MRI in head and neck oncology.
 University : Vrije Universiteit Amsterdam
 (co)Promotors : Castelijns J.A., Leemans C.R., Langendijk J.A. and Hoekstra O.S.
 Date : 23-11-2010

Name : **Maas C. (NKI)**
 Title : Molecular regulation of death receptor- and DNA damage-induced apoptosis.
 University : University of Amsterdam
 (co)Promotors : Borst J. and Bernards R.
 Date : 10-09-2010

Name : **Marees T. (VUmc)**
 Title : Second primary malignancies and excess mortality after retinoblastoma.
 University : Vrije Universiteit Amsterdam
 (co)Promotors : van Leeuwen F.E., Ringens P.J., Moll A.C. and Imhof S.M.
 Date : 29-01-2010

Name : **Meijerink M. (VUmc)**
Title : **Novel dynamic imaging methods and image-guided ablative therapies of liver tumors.**
University : **Vrije Universiteit Amsterdam**
(co)Promotors : **Van Kuijk C., Van Waesberghe J.H.T.M. and Van Tol M.P.**
Date : **18-06-2010**

Name : **Michaloglou C. (VUmc)**
Title : **The role and mechanism of BRAF600-induced senescence-like proliferative arrest of melanocytic naevi in preventing melanoma-genesis.**
University : **Vrije Universiteit Amsterdam**
(co)Promotors : **Mooi W.J. and Peeper D.S.**
Date : **21-06-2010**

Name : **Noordhuis P. (VUmc)**
Title : **Molecular aspects of 5-fluorouracil and oxaliplatin activity.**
University : **Vrije Universiteit Amsterdam**
(co)Promotors : **Peters G.J. and Van Groeningen C.J.**
Date : **21-10-2010**

Name : **Paramita D. (VUmc)**
Title : **Humoral immune responses to Epstein-Barr Virus early antigen and tumor associated antigen in nasopharyngeal carcinoma.**
University : **Vrije Universiteit Amsterdam**
(co)Promotors : **Middeldorp J.M., Haryana S.M. and Tan B.**
Date : **09-06-2010**

Name : **Peperzak V. (NKI)**
Title : **Mechanisms underlying CD27-CD70 costimulation.**
University : **University of Amsterdam**
(co)Promotors : **Borst J.**
Date : **12-02-2010**

Name : **Pijpe A. (NKI)**
Title : **Modifiers of breast cancer risk in BRCA1/2 mutation carriers - Diagnostic radiation, physical activity, and body weight.**
University : **Vrije Universiteit Amsterdam**
(co)Promotors : **Van Leeuwen F.E. and Rookus M.A.**
Date : **02-07-2010**

Name : **Postma C. (VUmc)**
Title : **Chromosomal instability in Colorectal Cancer.**
University : **Vrije Universiteit Amsterdam**
(co)Promotors : **Meijer G.A., Carvalho B. and Ylstra B.**
Date : **12-11-2010**

Name : **Reijmers R. (AMC)**
Title : **Heparan sulfate proteoglycans in B cell maturation and myeloma plasma cell survival.**
University : **University of Amsterdam**
(co)Promotors : **Pals S.T. and Spaargaren M.**
Date : **29-09-2010**

Name : **Revet I.M. (AMC)**
Title : **Homeobox genes in neuroblastoma.**
University : **University of Amsterdam**
(co)Promotors : **Versteeg R. and Geerts D.**
Date : **20-05-2010**

Name : **Ruijs M.W.G. (NKI)**
Title : **Li-Fraumeni syndrome, clinical and molecular genetics.**
University : **Vrije Universiteit Amsterdam**
(co)Promotors : **Kate L.P., Meijers-Heijboer E.J., van 't Veer L.J. and Menko F.H.**
Date : **05-02-2010**

Name : **Schaaij-Visser T.B. (VUmc)**
 Title : Biomarker discovery for head and neck cancer - A proteomics approach.
 University : Universiteit van Utrecht
 (co)Promotors : Heck A.J.R., Brakenhoff R.H. and Slijpers M.
 Date : 20-01-2010

Name : **Schilder C.M.T. (NKI)**
 Title : Effects of tamoxifen and exemestane on cognitive functioning; a study in postmenopausal breast cancer patients.
 University : University of Amsterdam
 (co)Promotors : Van Dam F.S.A.M., Boogerd W. and Schagen S.B.
 Date : 04-06-2010

Name : **Scholten K.B.J. (VUmc)**
 Title : Adoptive transfer of tumor specific T-cells for the treatment of cervical cancer: Generation of HPV specific T-cells.
 University : Vrije Universiteit Amsterdam
 (co)Promotors : Meijer C.J.L.M., Schreurs M.W.J. and Hooijberg E.
 Date : 02-12-2010

Name : **Smitsmans M.H.P. (NKI)**
 Title : Towards image-guided radiotherapy of prostate cancer.
 University : University of Amsterdam
 (co)Promotors : Van Herk M. and Lebesque J.V.
 Date : 10-10-2010

Name : **Spoelstra F.O.B. (VUmc)**
 Title : Optimization of image-guided radiotherapy (IGRT) for lung cancer.
 University : Vrije Universiteit Amsterdam
 (co)Promotors : Senan S., Slotman B.J. and Sörnsen de Koste J.R.
 Date : 15-01-2010

Name : **Tijink B.M. (VUmc)**
 Title : Targeted therapies in head and neck cancer.
 University : Vrije Universiteit Amsterdam
 (co)Promotors : Van Dongen G.A.M.S., Leemans C.R. and De Bree R.
 Date : 19-02-2010

Name : **Tuynman J.B. (AMC)**
 Title : Molecular pathways and interventions in GI cancer.
 University : University of Amsterdam
 (co)Promotors : Richel D.J., Van Lanschot J.B. and Peppelenbosch M.P.
 Date : 05-07-2010

Name : **Van de Steeg E. (NKI)**
 Title : Physiological and pharmacological functions of OATP1A/1B transporters.
 University : University Utrecht
 (co)Promotors : Beijnen J.H. and Schinkel A.H.
 Date : 14-04-2010

Name : **Van den Boorn J.G. (AMC)**
 Title : Vitiligo pathogenesis and immunotherapy of melanoma.
 University : University of Amsterdam
 (co)Promotors : Bos J.D., Melief C.J. and Luiten R.M.
 Date : 06-07-2010

Name : **Van den Broek F.J.C. (AMC)**
 Title : The role of endoscopic imaging for an improved diagnosis of colorectal neoplasia.
 University : University of Amsterdam
 (co)Promotors : Fockens P., Dekker E. and Reitsma J.B.
 Date : 29-01-2010

Name : **Van der Lelij P. (VUmc)**
 Title : The role of sister chromatoid cohesion in cohesinopathies, DNA damage response and carcinogenesis.
 University : Vrije Universiteit Amsterdam
 (co)Promotors : Joenje H. and De Winter J.P.
 Date : 07-10-2010

Name : **Van Heijst J.W.J. (NKI)**
 Title : Tracing T cell differentiation by genetic barcoding.
 University : University Leiden
 (co)Promotors : Schumacher T.N.M.
 Date : 24-06-2010

Name : **Van Riel J.M.G.H. (VUmc)**
 Title : Hepatic arterial chemotherapy for liver metastases of colorectal cancer.
 University : Vrije Universiteit Amsterdam
 (co)Promotors : Boven E., Peters G.J. and Van Groeningen C.J.
 Date : 17-09-2010

Name : **Van Zeeburg H.J.T. (VUmc)**
 Title : Oncolytic adenoviruses for treatment of oral cancer and precancer in sporadic and genetically predisposed patients.
 University : Vrije Universiteit Amsterdam
 (co)Promotors : Brakenhoff R.H., Leemans C.R. and Van Beusechem V.W.
 Date : 16-11-2010

Name : **Vermeulen L. (AMC)**
 Title : Cancer stem cells - a numbers game?
 University : University of Amsterdam
 (co)Promotors : Medema J.P. and Richel D.J.
 Date : 04-11-2010

Name : **Vormer T.L. (NKI)**
 Title : Tumor suppression by retinoblastoma proteins: interacting proteins and cooperating pathways.
 University : Vrije Universiteit Amsterdam
 (co)Promotors : Te Riele H.
 Date : 26-11-2010



scientific publications

annex 4

Annex 4.

Scientific publications

1. Aarts M, Te Riele H. Parameters of oligonucleotide-mediated gene modification in mouse ES cells. *J Cell Mol Med* 2010; 14: 1657-67 (NKI)
2. Aarts M, Te Riele H. Subtle gene modification in mouse ES cells: evidence for incorporation of unmodified oligonucleotides without induction of DNA damage. *Nucleic Acids Res* 2010; 38: 6956-67 (NKI)
3. Abrahamsen IW, Stronen E, Walchli S, Johansen JN, Kjellevoll S, Kumari S, Komada M, Gaudernack G, Tjonnfjord G, Toebes M, Schumacher TN, Lund-Johansen F, Olweus J. Targeting B cell leukemia with highly specific allogeneic T cells with a public recognition motif. *Leukemia* 2010; 24: 1901-8 (NKI)
4. Abreu JRF, Dontje W, Krausz S, de Launay D, van Hennik PB, van Stalborch A-M, ten Klooster J-P, Sanders ME, Reedquist KA, Hordijk PL, Vervoordeltonk MJ, Tak PP. A Rac1 inhibitory peptide suppresses antibody production and paw swelling in the murine collagen-induced arthritis model of rheumatoid arthritis. *Arthritis Research & Therapy* 2010; 12(1) R2. (AMC)
5. Abreu JRF, Krausz S, Dontje W, Grabiec AM, de Launay D, Nolte MA, Tak PP, Reedquist KA. Sustained T cell Rap1 signaling is protective in the collagen-induced arthritis model of rheumatoid arthritis. *Arthritis & Rheumatism-Arthritis Care & Research* 2010, 62(11), 3289-3299. (AMC)
6. Achterberg TJ, Holwerda A, Verhoof E, Wind H, Brouwer S, Maurice-Stam H, Groothoff JW, Frings-Dresen MHW, van der Klink JJJ. Wajongers aan het werk: welke factoren kunnen van belang zijn voor arbeidsparticipatie van jonggehandicapten? *Tijdschrift voor Bedrijfs- en Verzekeringsgeneeskunde* 2010; 18(2), 52-58. (AMC)
7. Adam R, Bhangui P, Poston G, Mirza D, Nuzzo G, Barroso E, Ijzermans J, Hubert C, Ruers T, Capussotti L, Ouellet JF, Laurent C, Cugat E, Colombo PE, Milicevic M. Is perioperative chemotherapy useful for solitary, metachronous, colorectal liver metastases? *Ann Surg* 2010; 252: 774-87 (NKI)
8. Adank MA, Segers H, van Mil SE, van Helsdingen YM, Ameziane N, van den Ouweland AMW, Wagner A, Meijers-Heijboer H, Kool M, de Kraker J, Waisfisz Q, van den Heuvel-Eibrink MM. Fanconi Anemia Gene Mutations Are Not Involved in Sporadic Wilms Tumor. *Pediatric Blood & Cancer* 2010; 55(4), 742-744. (AMC/VUmc)
9. Adema AD, Laan AC, Myhren F, Fichtner I, Verheul HMW, Sandvold ML, Peters GJ. Cell cycle effects of fatty acid derivatives of cytarabine, CP-4055, and of gemcitabine, CP-4126, as basis for the interaction with oxaliplatin and docetaxel. *Int J Oncol* 2010; 36: 285-294 (VUmc)
10. Adema AD, Losekoot N, Smid K, Kathmann I, Myhren F, Sandvold ML, Peters GJ. Induction of Resistance to the Lipophilic Cytarabine Prodrug Elacytarabine (CP-4055) in CEM Leukemic Cells. *Nucleos Nucleot Nucl* 2010; 29: 394-399 (VUmc)
11. Adema AY, Schilder AM, Schreuder TCMA, Grunberg K, Bultink IEM, Mulder CJJ. Ascites as the Presenting Symptom in a Patient with Churg-Strauss Syndrome. *J Gastrointest Liver Dis* 2010; 19: 199-201 (VUmc)
12. Admiraal R, van der Paardt M, Kobes J, Kremer LCM, Bisogno G, Merks JHM. High-dose chemotherapy for children and young adults with stage IV rhabdomyosarcoma. *Cochrane Database of Systematic Reviews* 2010, 2010(12):CD006669-. (AMC)
13. Agami R. microRNAs, RNA binding proteins and cancer. *Eur J Clin Invest* 2010; 40: 370-4 (NKI)
14. Agasi-Idenburg C, Velthuis M, Wittink H. Quality criteria and user-friendliness in self-reported questionnaires on cancer-related fatigue: a review. *J Clin Epidemiol* 2010; 63: 705-11 (NKI)
15. Aguilar H, Sole X, Bonifaci N, Serra-Musach J, Islam A, Lopez-Bigas N, Mendez-Pertuz M, Beijersbergen RL, Lazaro C, Urruticoechea A, Pujana MA. Biological reprogramming in acquired resistance to endocrine therapy of breast cancer. *Oncogene* 2010; 29: 6071-83 (NKI)
16. Akca I, Ismail N, Sun F, Nguyen D, Kalkman J, van Leeuwen T, Driessen A, Worhoff K, PolInau M, de Ridder R. Integrated Arrayed Waveguide Grating Spectrometer for On-Chip Optical Coherence Tomography. *Biomedical Optics* 2010; 2010, JWA66-. (AMC)
17. Al Mamgani A, Heemsbergen WD, Levendag PC, Lebesque JV. Subgroup analysis of patients with localized prostate cancer treated within the Dutch-randomized dose escalation trial. *Radiother Oncol* 2010; 96: 13-8 (NKI)
18. Al Mamgani A, Lebesque JV, Heemsbergen WD, Tans L, Kirkels WJ, Levendag PC, Incrocci L. Controversies in the treatment of high-risk prostate cancer-what is the optimal combination of hormonal therapy and radiotherapy: a review of literature. *Prostate* 2010; 70: 701-9 (NKI)
19. Alba R, Bradshaw AC, Coughlan L, Denby L, McDonald RA, Waddington SN, Buckley SMK, Greig JA, Parker AL, Miller AM, Wang HJ, Lieber A, van Rooijen N, Mcvey JH, Nicklin SA, Baker AH. Biodistribution and retargeting of FX-binding ablated adenovirus serotype 5 vectors. *Blood* 2010; 116: 2656-2664 (VUmc)
20. Albers G, Echteld MA, De Vet HCW, Onwuteaka-Philipsen BD, van der Linden MHM, Deliëns L. Content and Spiritual Items of Quality-of-Life Instruments Appropriate for Use in Palliative Care: A Review. *J Pain Sympt Manag* 2010; 40: 290-300 (VUmc)
21. Albers G, Echteld MA, De Vet HCW, Onwuteaka-Philipsen BD, van der Linden MHM, Deliëns L. Evaluation of quality-of-life measures for use in palliative care: a systematic review. *Palliative Med* 2010; 24: 17-37 (VUmc)

22. Albers HM, Dong A, Van Meeteren LA, Egan DA, Sunkara M, Van Tilburg EW, Schuurman K, van Tellingen O, Morris AJ, Smyth SS, Moolenaar WH, Ovaa H. Boronic acid-based inhibitor of autotaxin reveals rapid turnover of LPA in the circulation. *Proc Natl Acad Sci U S A* 2010; 107: 7257-62 (NKI)
23. Albers HMG, Van Meeteren LA, Egan DA, Van Tilburg EW, Moolenaar WH, Ovaa H. Discovery and optimization of boronic acid based inhibitors of autotaxin. *J Med Chem* 2010; 53: 4958-67 (NKI)
24. Albrethsen J, Knol JC, Piersma SR, Pham TV, de Wit M, Mongera S, Carvalho B, Verheul HMW, Fijneman RJA, Meijer GA, Jimenez CR. Subnuclear Proteomics in Colorectal Cancer: Identification of proteins enriched in the nuclear matrix fraction and regulation in adenoma to carcinoma progression. *Mol Cell Proteomics* 2010; 9: 988-1005 (VUmc)
25. Alderliesten T, Loo C, Paape A, Muller S, Rutgers E, Peeters MJ, Gilhuijs K. On the feasibility of MRI-guided navigation to demarcate breast cancer for breast-conserving surgery. *Med Phys* 2010; 37: 2617-26 (NKI)
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27. Aleman BMP, Haas RLM, van der Maazen RWM. Role of radiotherapy in the treatment of lymphomas of the gastrointestinal tract. *Best Pract Res Clin Gastroenterol* 2010; 24: 27-34 (NKI)
28. Alkemade FE, van Vliet P, Henneman P, van Dijk KW, Hierck BP, van Munsteren JC, Scheerman JA, Goeman JJ, Havekes LM, Gittenberger-de Groot AC, van den Elsen PJ, DeRuiter MC. Prenatal Exposure to apoE Deficiency and Postnatal Hypercholesterolemia Are Associated with Altered Cell-Specific Lysine Methyltransferase and Histone Methylation Patterns in the Vasculature. *Am J Pathol* 2010; 176: 542-548 (VUmc)
29. Alvarez Herrero L, Pouw RE, van Vilsteren FG, ten Kate FJ, Visser M, van Berge Henegouwen MI, Weusten BL, Bergman JJ. Risk of lymph node metastasis associated with deeper invasion by early adenocarcinoma of the esophagus and cardia: study based on endoscopic resection specimens. *Endoscopy* 2010; 42(12): 1030-1036. (AMC)
30. Amant F, Deckers S, Van Calsteren K, Loibl S, Halaska M, Brepoels L, Beijnen J, Cardoso F, Gentilini O, Lagae L, Mir O, Neven P, Ottevanger N, Pans S, Peccatori F, Rouzier R, Senn HJ, Struikmans H, Christiaens MR, Cameron D, du Bois A. Breast cancer in pregnancy: Recommendations of an international consensus meeting. *Eur J Cancer* 2010; 46: 3158-68 (NKI)
31. Ammerlaan H, Seifert H, Harbarth S, Brun-Buisson C, Torres A, Antonelli M, Kluytmans J, Bonten M. Should We Be Debating the Importance of Timely Adequate Antimicrobial Therapy? Reply. *Clinical Infectious Diseases* 2010; 50: 618-620 (VUmc)
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