

Molecular Pathways in
Cancer
initiation, maintenance
and therapy

Date July 3 – 29, 2011



The Amsterdam International Medical Summer School 22nd edition

Welcome,

The Amsterdam International Medical Summer School (**AIMSS**) is an annual event, organized by the Academic Medical Center University of Amsterdam (AMC-UvA) in cooperation with the Amsterdam Maastricht Summer University.

The AIMSS offers you the opportunity to live and study in international surroundings and to meet students from all over the world.

This year the AIMSS will organize the Summer School Molecular Pathways in Cancer, initiation, maintenance and therapy

The Summer School will take place from July 3 through 29, 2011 in the Academic Medical Center, Amsterdam.

The course of this Summer School consists of hands-on training in laboratory research combined with lectures on selected subjects concerning the following topics:

Topics

- Cancer stem cells
- Tumor microenvironment
- Apoptosis
- TNF family
- Tumor profiling
- Targeted therapy
- Synthetic lethality
- Wnt pathway

Lecturers are internationally known experts of the AMC-UvA and other centers in The Netherlands.

In addition to the academic program many other activities will be organized. You can enjoy a lively social and cultural program in and outside Amsterdam.

We hope to welcome students from all over the world in Amsterdam as a participant in our Summer School 2011.

We will do our best to make your stay both useful and enjoyable.

Professor M.M. Levi MD, PhD
Dean

Members of the Program Committee
Chair:

Professor Jan Paul Medema PhD (Experimental and Molecular Medicine CEMM)

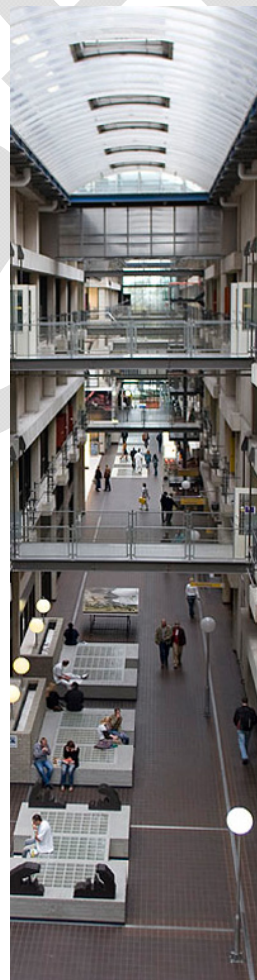
Professor Dick Richel MD, PhD
(Internal Medicine Oncology)

Professor Rogier Versteeg PhD (Antropogenetics)
Eric Eldering PhD

(Experimental Immunology)

Marcel Spaargaren PhD (Pathology)

Ina ten Have (International Office).



The Amsterdam International Medical Summer School

Scientific program

Introduction

Cancer is an increasing health problem that, despite enormous research efforts, remains the number one cause of death in most developed countries in the western world. As such cancer is becoming a major burden on health systems and an even bigger challenge for researchers and physicians. Up to relatively recently cancer patients were treated in a relatively uniform fashion, but the development of targeted therapies is changing the landscape towards more individual tailored treatments. This personalized approach of cancer patients obviously even further enhances the pressure on the health system. Therefore the major challenge is to understand the features of cancers that determine initiation, progression and treatment response in order to not only enhance the cure of cancer patients, but also to keep the health system affordable.

This year, the AMC Summer School offers students a unique insight into the basics of oncology research and will provide highlights of current research efforts. The four-week introduction will allow students to experience both practical and theoretical aspects of this exiting area of research. Moreover, it will give students the opportunity to see day-to-day clinical practice and to actively participate. During this course you will gain insight in the fundamental, translational and clinical aspects of cancer. Profiling of cancers to understand their genetic make-up, biological analysis to understand their signal wiring and therapy resistance, animal models to analyse *in vivo* aspects and therapy efficacy and the role of the tumor microenvironment will all be discussed during this course in both lectures and practical research.

The first week of the program will cover the clinical detection of tumors and the epidemiology of cancer. All different clinical disciplines that deal with cancer will present their role in the process and will allow you to perform several key experiments and routine clinical tests to experience what happens behind the scenes of the oncology clinics.

The second week will be devoted to the biological aspects of cancer. Deregulation of cell cycle, cell division and death by oncogenes and tumoursuppressors, DNA damage and repair as well as the mechanisms of metastasis and tumor cell migration will all be presented. The novel concept of cancer stem cells and its implication on therapy will be discussed. These lectures will be

supplemented with a range of key experiments that typify the research into the cell biology of cancer and these will allow you to get hands-on experience with cell death assays, gene array analysis and cell cycle regulation.

The third week of the program will deal with the role of the microenvironment of the tumor in both the development of cancer as well as the therapy resistance. Initially, you will get a solid introduction into the field of morphogens, crucial players in the development and maintenance of cancer. This will be followed by more specific insight into the role of the microenvironment in several different tumor types. Also during this week you will get practical insight into this intimate interaction between tumor and microenvironment.

In the fourth and final week we will focus on the treatment of cancer with classical and more specific and sometimes experimental therapies. During this week you can get behind the scenes of the clinical practice and will be challenged to deal with topical issues in cancer research.



The Amsterdam International Medical Summer School

General information

Course profile

The duration of the course is four weeks from July 3 through 29, 2011.

Introduction and registration on Sunday afternoon July 3, 2011.

At the end of the course a certificate will be issued to those participants who have completed the course and have fulfilled their presentation.

Applicant profile

The participant should be an advanced student in e.g. Medicine, Biology, Oncology or Health Sciences with knowledge of biomedical and clinical sciences and recent graduates.

Experience in laboratory research is an advantage, not a requirement.

Number of participants: maximum 30 students.

Course language

The course language will be English.

Venue

The course will take place in the AMC, Meibergdreef 15, 1105 AZ Amsterdam, The Netherlands.

The AMC can be reached in 25 minutes from Central Station Amsterdam by subway, direction Gein, stop Holendrecht.

Course fee & payment conditions

The course fee does not cover the accommodation, public transport and expenses for meals.

Course fee:

Payments received till:

Before May 15, 2011 € 625,--

After May 15, 2011 € 725,--

Accommodation fee:

shared room (including bed linen): € 460,00

The course fee should be paid in EURO:

to: ABN AMRO Amsterdam the Netherlands

Account number 446546844

BIC: ABNANL2A

IBAN:NL65ABNA0446546844

on behalf of:

Amsterdam Maastricht Summer University

P.O. Box 53066

1007 RB Amsterdam,

The Netherlands

Please make sure your name, the name

"the Amsterdam International Medical Summer

School" and the course code **Medic-1** is mentioned on your payment.

The course fee contains:

Admission to all lectures, course materials, welcome drink and meal, canal tour, concert, visit to a museum and other social and cultural activities, closing buffet.

Accommodation

The accommodation consists of modest student apartments (shared) with shared bathroom and kitchen. The apartments are situated in the city center of Amsterdam, near by several places of interest. The accommodation arrangements are available for participants only and cover the period July 1 (4.00 p.m.) through July 31, 2011, (10.00 a.m.)

Cost of living

The AMC-restaurant offer meals at reduced prices. This will amount to approximately € 125, -- per week.

Most economical is to prepare your own meals.

Insurance

Please make sure your insurance (medical and travel insurance etc.) is valid during your stay in the Netherlands.



The Amsterdam International Medical Summer School

General information

Application and registration

Please return the completed application form included Curriculum Vitae , letter of motivation, a letter of recommendation by the home institution to:

The Amsterdam Maastricht Summer University
P.O. Box 53066
1007 RB AMSTERDAM
The Netherlands

Telephone: + 31.20.6200225

Telefax: +31.20.6249368

<http://www.amsu.edu>

For further information & correspondence:
Please contact the address stated above.



Deadline

Applications and payments should be received in Amsterdam before May 15, 2011.

Applications arriving after May 15 will be treated in the order in which they are received.

Cancellation

Before May 15, 2011

Conditions

Priority will be given to completed applications (including payment in full) in the order in which the payments are received.

Written cancellations received before May 15, 2011 will be refunded after 15% of the total has been deducted for administrative expenses.

No refunds will be made for cancellations received after May 15, 2011 or for non-attendance. Course materials will be forwarded in any case.

The Academic Medical Center University of Amsterdam reserves the right to cancel a course due to unforeseen circumstances without any liability for damages arising, such as flight tickets etc. In that case the participation sum, if already paid, will be refunded in full.

All participants in the courses are bound by the standard conditions of the Amsterdam Maastricht Summer University (www.amsu.edu).

