



皖南医学院 第一附属医院  
弋矶山医院  
THE FIRST AFFILIATED HOSPITAL OF WANNAN MEDICAL COLLEGE



# Sino-Dutch Medical Exchange Webinar 14 January 2021

Yijishan Hospital, Anhui, China  
&  
University Medical Center Utrecht  
The Netherlands

# Agenda



Zoom Meeting ID: 655 3519 1999      Passcode: 210114		
CET	Contents	Speaker
09:00-09:05	Opening & Welcome	Prof. Xu Hongguang
09:05-10:00	1. Power point presentation: Introduction and latest orthopedic research progress 2. Q&A: discussion points regarding the PPT	Prof. Dr. F. Cumhur Öner & team Dr. Laura Creemers Dr. Moyo Kruyt
10:00-10:30	Chinese Surgery Video Sharing (OLIF)	Dr. Chen Liu
10:30-11:00	Project progress report: Research and development of the height-adjustable anatomical cervical spine Ti-PEEK fusion cage and its fusion performance and biomechanical research	Dr. Chen Liu
11:00-11:30	New Cooperation Project Negotiation and Appointments Communication and point of view on further cooperation regarding: <i>a. The role and mechanism of circRNA_0058097 in tension-induced endplate tubular degeneration and</i> <i>b. Experimental study of promoting nucleus pulposus regeneration by multi-factor sustained-release microsphere hydrogel and iPSCs</i>	Prof. Xu Hongguang & team & Prof. Dr. F. Cumhur Öner & team Dr. Laura Creemers Dr. Moyo Kruyt
11:30-11:35	Conclusion & Thanks	Prof. Xu Hongguang

# Research Cooperation: China – The Netherlands

- Project:

Anhui Province Key Research and Development Plan in 2020

Project name: Research and development of the height-adjustable anatomical cervical spine Ti-PEEK fusion cage and its fusion performance and biomechanical research.

- Cooperation partners:

Orthopedics Department of the First Affiliated Hospital of Wannan Medical College (Yijishan Hospital) and Universitair Medisch Centrum, Utrecht.

- New Cooperation to be discussed:

1. The role and mechanism of circRNA\_0058097 in tension-induced endplate tubular degeneration
2. Experimental study of promoting nucleus pulposus regeneration by multi-factor sustained-release microsphere hydrogel and iPSCs



# 医院介绍

## Profile of Anhui Yijishan Hospital

*Green Hospital · Humanistic Care*



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### Facts and figures Anhui Yijishan Hospital

1. The hospital was one of the first units authorized to grant master's degree approved by the State Council in 1980.
2. There are 65 clinical medical technical departments and 21 teaching and research departments.
3. The hospital has the largest blood purification center in East China and the first-class reproductive medicine center, endoscopy center and health management center in the province.
4. It has advanced diagnosis and treatment equipment such as PET-CT, 3.0T magnetic resonance, and dual-source CT.
5. In recent years, the hospital has vigorously promoted medical technology innovation, completed the first "hematopoietic stem cell transplantation" in southern Anhui, and gave birth to the first "test tube baby", creating a number of regional firsts.
6. Anhui Yijishan Hospital adheres to the concept of "*Green Hospital · Humanistic Care*", emphasizes medical ethics, fine medical skills, diligence, and strict management, and provides patients with high-quality, high-efficiency, low-cost medical services.
7. The number of patients who come to seek medical consultations inside and outside the province is increasing. In 2016, there were 1.85 million outpatient and emergency treatments, 92,000 hospitalizations, and 36,000 operations.
8. Tens of thousands of patients received medical advice from Wannan Medical College.

# Profile

## Universitair Medisch Centrum, Utrecht (UMC)

*Planning makes good ideas a reality*

*Pioneers innovations and targeted research for the future*



### Facts & Figures Universitair Medisch Centrum Utrecht, UMC Utrecht

1. One of the top-ranked academic medical centers in Europe and has been awarded international accreditation on quality of care, research and education by the joint commission international
2. One of the largest public health care institutions in the Netherlands and the largest employer in the region.
3. Wilhelmina Children's Hospital (WKZ) is part of the UMC Utrecht. The WKZ has 220 beds, and 7,500 patients are admitted annually.
4. The Major accident Hospital, located in the UMC Utrecht, is an internationally unique facility for providing immediate emergency care for casualties in exceptional circumstances.
5. Leading international university medical center generating, testing, sharing, and applying knowledge on health, illness, and health care for the benefit of patients and society.
6. Encourages and supports collaboration across all areas of their organization to produce and develop the best results for their staff, students, and patients.
7. Leading scientific research, groundbreaking innovation and collaboration with patients and other interested parties form the basis of their first-rate healthcare.
8. Stimulates new industriousness: by "marketing" their knowledge and skills, patients in other hospitals can benefit as well.
9. Aims to be the forerunner in this respect by acting in a sustainable and socially responsible manner.

# Introduction of Experts



## **Prof. Hongguang Xu**

- 🚩 Chief Physician, Second-level Professor and PhD Tutor of the First Affiliated Hospital of Wannan Medical College (Yijishan Hospital).
- 🚩 Director of Spinal Surgery Research Center of Wannan Medical College.
- 🚩 Director of the Key Laboratory of Non-coding RNA Research in Anhui Province.
- ◆ The Leader of the Twelfth Batch of 115 Industrial Innovation Team in Anhui Province: *"Key Core Technology and Industrialization Innovation Team for Spinal Degeneration Remodeling"* .

# Introduction of Experts



**Prof. Dr. F. Cumhur Öner**



**Head of Spine Unit (Orthopaedics-Neurosurgery) of University Medical Center Utrecht**



Director AOSpine Reference Center Utrecht



Professor of Spinal Surgery, University of Utrecht

Current Research Areas: Spinal Trauma, Spinal metastases, Less invasive spinal surgery, Tissue engineering of bone and intervertebral disk, Biomaterials and BMP' s in spinal fusion



# Introduction of Experts



## **Dr. L.B Creemers**



Associate professor



Dr. Creemers has been working in several research areas, including spermatogenic stem cells, (periodontal) ligament, tendon and bone.



Focus is on cartilage and intervertebral disc (IVD) research with a special interest in biomaterials-based local delivery approaches for regeneration and treatment of inflammation.



In the past years she has been involved in several projects on local drug delivery, including BMM IDiDAS (PI) targeting disc degeneration and BMM-OAcontrol on osteoarthritis.



# Introduction of Experts



## **Dr. M.C. Kruyt**



Orthopedic surgeon



Proefschrift: Tissue Engineering of Bone: the Applicability of Cell-based Strategies



Stafarts met de aandachtsgebieden traumatologie en wervelkolomchirurgie bij volwassenen en kinderen.



AO spine Young investigators award, 2008 winning paper: Geuze RE, Kruyt MC, Verbout AJ Alblas J and Dhert WJ.



Comparing various off-the-shelf methods for bone tissue engineering in a large-animal ectopic implantation model: bone marrow, allogeneic bone marrow stromal cells, and platelet gel.



ICHTS award for outstanding contribution to the 50th ORS San Francisco Ca, US. 2004



Selected for Masterclass on stem cell technology. Supervised by Prof. M. Raff. October 2002 University Hospital AMC Amsterdam, the Netherlands

# Sustainable development goals



UMC Utrecht and Anhui Yijishan Hospital have sustainability high on their strategic agenda.

Sustainable Development Goal 3 (SDG 3), regarding "Good Health and Well-being", is one of the 17 Sustainable Development Goals. The mission statement is to ensure healthy lives and promote well-being for all at all ages.

**SDG 3** aspires to ensure health and well-being for all, including a bold commitment to end the epidemics of AIDS, tuberculosis, malaria and other communicable diseases by 2030. It also aims to achieve universal health coverage, and provide access to safe and effective medicines and vaccines for all.

The key features address all major health priorities, including reproductive, maternal and child health; communicable, non-communicable and environmental diseases; universal health coverage; and access for all to safe, effective, quality and affordable medicines and vaccines.

## **UMC Utrecht:**

Sustainability, in the broadest sense of the word, is high on the strategic agenda of UMC Utrecht. Through its dedication to CSR (Corporate Social Responsibility) UMC Utrecht strive for balance between People, Planet, and Profit. On a practical level, UMC Utrecht encourages sustainability by using like-minded suppliers, encouraging healthy diets, reducing food waste, and using a certified environmental management system (ISO 14001). UMC Utrecht constantly asks themselves what impact their work has on the environment, communities, and how UMC Utrecht can leave a sustainable legacy for the future.

## **Anhui Yijishan Hospital:**

Anhui Yijishan Hospital adheres to the concept of "*Green Hospital · Humanistic Care*", emphasizes medical ethics, fine medical skills, diligence, and strict management, and provides patients with high-quality, high-efficiency, low-cost medical services.

# Organising Committee



**Jiangsu Hengrui Pharmaceuticals Co., LTD.** is engaged in pharmaceutical production and innovation. It's committed to high quality pharmaceutical research, development and promotion. It was founded in 1970 and listed on the Shanghai stock exchange in 2000. By the end of 2019, it has a total of more than 24000 employees around the world, and is the domestic well-known antitumor pharmaceuticals. In 2019, the company was listed among the TOP50 pharmaceutical companies in the world, ranking the 47th. Its mission is to promote a healthier life for humankind through achievements in science. Represented by: Wenfeng Yue, department director; International Exchange department; Strategy & Development department.



**Clean Future Synergy** connects businesses, governments and educational institutions across different continents to exchange knowledge regarding green, hightech and smart solutions in order to set steps for a cleaner and healthier world. Jointly realizing a clean green and healthy future through hightech and pollution-friendly methods is our goal. Represented by: Sharro Jethu, Founder, CEO at Clean Future Synergy, angel investor, entrepreneur and lawyer. Clean Future Synergy is a brandname of Optimal Synergy Ltd, specialised in safeguarding quality assurance and knowledge transfer.

# Members organising committee



**Wenfeng Yue**  
**Director**



**Sharro Jethu**  
**CEO**



**Dana Zhou**  
**Project Manager**



**Janet Wang**  
**Interpreter**



**Claire Song**  
**Interpreter**