

# Symposium & Summer School in Nanomedicine, Biomaterials and Bionanotechnology

University of Groningen – UNAM

June 19th - 22th, 2023

Venues: Institute of Materials Research, Institute of Chemistry & School of Chemistry,  
Ciudad Universitaria, Ciudad de México.

## Schedule

Time	Monday 19 Inst. Materials	Tuesday 20 Inst. Chemistry	Wednesday 21 Schl. Chemistry	Thursday 22 Inst. Materials	
9:00 - 9:15		<b>SYMPOSIUM 3</b> <i>Dr. Wouter Roos</i>	<b>SYMPOSIUM 7</b> <i>Dr. Prashant Sharma</i>	<b>ROUND TABLE</b> <b>UG-UNAM</b> <i>The Future of</i> <i>Nanomedicine</i>	
9:15 - 9:30					
9:30 - 9:45		<b>SYMPOSIUM 4</b> <i>Dr. Patrick van Rijn</i>	<b>SYMPOSIUM 8</b> <i>Dr. Theo van Kooten</i>		
9:45 - 10:00					
10:00 - 10:15	<b>OPENING</b> <b>CEREMONY</b>	<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>	
10:15 - 10:30					
10:30 - 10:45					
10:45 - 11:00					
11:00 - 11:15	<i>Coffee break</i>	<b>SYMPOSIUM 5</b> <i>Dr. Brandon Peterson</i>	<b>SUMMER SCHOOL 5</b> <i>Dr. Mohammad-Ali</i> <i>Shahbazi</i>	<b>EXCHANGE</b> <b>UG-UNAM</b> Programs	
11:15 - 11:30					
11:30 - 11:45	<b>SYMPOSIUM 1</b> <i>Dr. Helder Santos</i>	<b>SYMPOSIUM 6</b> <i>Dr. Sarthak Misra</i>		<b>CLOSING</b>	
11:45 - 12:00					
12:00 - 12:15	<b>SYMPOSIUM 2</b> <i>Dr. Mohammad-Ali</i> <i>Shahbazi</i>	<b>EXCHANGE</b> <b>UG-UNAM</b> <i>Experiences</i>			
12:15 - 12:30					
12:30 - 12:45					
12:45 - 13:00					
13:00 - 13:45	<i>Break</i>	<i>Break</i>	<i>Break</i>		
13:15 - 13:30					
13:30 - 13:45					
13:45 - 14:00					
14:00 - 14:15	<b>SUMMER SCHOOL 1</b> <i>Dr. Prashant Sharma</i>	<b>SUMMER SCHOOL 3</b> <i>Dr. Helder Santos</i>	<b>SUMMER SCHOOL 6</b> <i>Dr. Sarthak Misra</i>		
14:15 - 14:30					
14:30 - 14:45					
14:45 - 15:00					
15:00 - 15:15					
15:15 - 15:30					
15:30 - 15:45					
15:45 - 16:00					
16:00 - 16:15	<i>Coffee break</i>	<i>Coffee break</i>	<i>Coffee break</i>		
16:15 - 16:30					
16:30 - 16:45					
16:45 - 17:00					
17:00 - 17:15	<b>SUMMER SCHOOL 2</b> <i>Dr. Theo van Kooten</i>	<b>SUMMER SCHOOL 4</b> <i>Dr. Brandon Peterson</i>	<b>SUMMER SCHOOL 7</b> <i>Dr. Patrick van Rijn</i>		
17:15 - 17:30					
17:30 - 17:45					
17:45 - 18:00					
18:00 - 18:15					
18:15 - 18:30					
18:30 - 18:45					

## Program of the Symposium

### **MONDAY 19** (*Auditorium of Institute of Materials Research*)

10:00 Opening Ceremony

11:00 *Coffee break*

11:30 **Conference 1.** Dr. Helder A. Santos

*Design of nanoparticles for cancer immunotherapy and cardiac repair*

12:15 **Conference 2.** Dr. Mohammad-Ali Shahbazi

*Near-infrared Light-mediated Therapy and Tissue Regeneration by Photoactive Materials*

### **TUESDAY 20** (*Auditorium of Institute of Chemistry*)

9:00 **Conference 3.** Prof. Wouter Roos

*Nanoscale dynamics of biomolecular interactions studied by single-molecule approaches*

9:45 **Conference 4.** Dr. Patrick van Rijn

*Nanogels: an indispensable nanobiomaterial tool in nanomedicine*

10:30 *Coffee break*

10:45 **Conference 5.** Dr. Brandon Peterson

*Biofilms and Bacterial Adaptivity*

11:30 **Conference 6.** Dr. Sarthak Misra

*Steering Miniaturized Agents*

12:15 **Intercambio Académico UNAM - UG**

*Experiencias de estudiantes de la UNAM en la UG*

### **WEDNESDAY 21** (*Auditorium of School of Chemistry*)

9:00 **Conference 7.** Dr. Prashant K. Sharma

*Biotribology and friction related diseases*

9:45 **Conference 8.** Dr. Theo van Kooten

*Biomaterial-related inflammatory processes – the role of macrophages*

10:30 *Coffee break*

### **THURSDAY 22** (*Auditorium of Institute of Materials Research*)

9:00 **Round Table UNAM-UG**

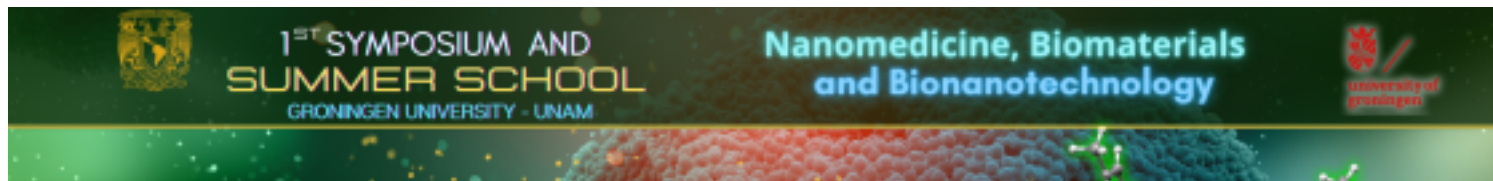
*The future of Nanomedicine*

10:30 *Coffee break*

10:45 **Intercambio Académico UG-UNAM**

*Programas de intercambio*

11:45 **Closing Ceremony**



## Program of the Summer School

### **MONDAY 19** (*Auditorium of Institute of Materials Research*)

14:30 **Lecture 1.** Dr. Prashant K. Sharma

*Viscoelasticity and cell response*

16:30 *Coffee break*

16:45 **Lecture 2.** Dr. Theo van Kooten

*The role of inflammatory processes in fibrotic events*

### **TUESDAY 20** (*Auditorium of Institute of Chemistry*)

14:30 **Lecture 3.** Dr. Helder A. Santos

*Nanomedicines for precise targeted therapies: Innovative Drug Delivery Systems*

16:30 *Coffee break*

16:45 **Lecture 4.** Dr. Brandon Peterson

*Experimental Design for Working with Bacterial Biofilms*

### **WEDNESDAY 21** (*Auditorium of School of Chemistry*)

11:00 **Lecture 5.** Dr. Mohammad-Ali Shahbazi

*Biomaterials for Multifunctional Wound Healing Acceleration*  
(finaliza a las 13h)

14:30 **Lecture 6.** Dr. Sarthak Misra

*Steering Flexible Instruments: Continuum Robotics*

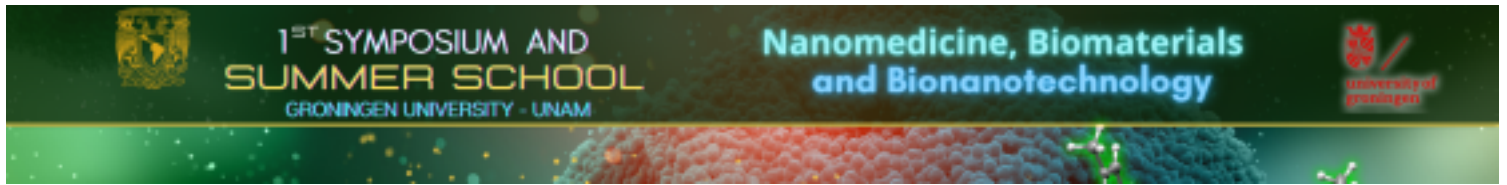
16:30 *Coffee break*

16:45 **Lecture 7.** Dr. Patrick van Rijn

*Nanogels*

## GENERAL INFORMATION

- Fully free event.
- Sessions in English language (except for academic exchange events).
- Pre-registration is required to attend the symposium and summer school.
- Link for pre-registration: <https://forms.gle/c7c4h6e3QEjK4Afo9>
- Digital attendance certificates (PDF) will be awarded:
  - o Certificate to the symposium only for attendance of at least 3 days.
  - o Certificate to the summer school only for attendance of at least 5 classes.



- Participation in the Summer School is open to people from related fields:
  - Academics and technicians.
  - Postdoctoral fellows.
  - Graduate students (MSc & PhD).
  - Undergraduate students (>70% credits completed).
- Acceptance of participation in the Summer School will be confirmed by email.
- Access to the event without pre-registration will be subject to availability of space.
- For more information: [nanomedicinaunam@iquimica.unam.mx](mailto:nanomedicinaunam@iquimica.unam.mx)

**Atte. Organizing Committee**

<https://www.iim.unam.mx/summerschool>

More information:  
[nanomedicinaunam@iquimica.unam.mx](mailto:nanomedicinaunam@iquimica.unam.mx)