

It is our great pleasure to bring you the latest edition of the newsletter of the Controlled Release Society Focus Group in Nanomedicine and Nanoscale Delivery (CRS FG NND). This fifth newsletter brings you the latest activities developed by our FG, some news about the 2020 CRS Virtual Annual Meeting (CRS2020vAM), which will be held from June 29 to July 2, 2020, and much more!

Do not forget to visit our [webpage](#) and to follow us on social media! #CRS2020vAM

CRS2020vAM | FG NND Session: Tuesday, June 30, 2020, 10:00 am to 12:00 pm (EST)

Due to the current worldwide outbreak of COVID-19, the 2020 CRS Annual Meeting & Exposition will take place virtually. CRS2020vAM represents the effort of its boards and committees on giving researchers the opportunity to share their work and to hear from state-of-the-art speakers and presenters, despite the circumstances. The conference program can be found [here](#) and list of invited speakers [here](#)! The program includes a plenary talk by the Nobel laureate Dr. Yoshinori Ohsumi on “Elucidating the Mechanisms for Autophagy” and the “The Magic of Bob Langer”, presented by Prof. Robert Langer himself. We are pleased to announce that our scientific session (technical session #4) will take place on Tuesday, June 30, from 10:00 am to 12:00 pm, and will be moderated by our chair Prof. Hélder A. Santos and our vice-chair Dr. María de la Fuente. Our line up of speakers is composed by the winners of the FG NND awards and completed with two keynote speakers with vast expertise in the field of nanomedicine. #CRS2020vAM is a new way of learning and connecting – do not miss it! ■

THREE WAYS TO PARTICIPATE

1. Participate in the meeting live.

Listen to plenary lectures, participate in technical sessions, virtually visit exhibitor booths and fully engage in the meeting

2. Participate in the repeat meeting.

Take part in the meeting a few hours later, if more convenient for your time zone

3. Participate in the meeting on-demand.

All plenary and technical sessions will be recorded and available to you anytime so you can pick the ones that interest you most.



CRS FG NND 2020 AWARD WINNERS

YOUNG INVESTIGATOR AWARD



Diêgo Ferreira
Federal University of Minas Gerais, Brazil

TRAINEE AWARD



Kristine Lai
Cornell University, USA

TRANSLATIONAL RESEARCH AWARD



Avi Schroeder
Technion – Israel Inst. of Technology, Israel

FUNDAMENTAL RESEARCH AWARD



Yutong Guo
Georgia Inst. of Technology, USA

VIDEO COMPETITION AWARD



Paz Montesinos
Príncipe Felipe Research Center, Spain

KEYNOTE SPEAKERS



María J. Vicent
Príncipe Felipe Research Center, Spain



Patrick Baumhof
CureVac, Germany

DRUG DELIVERY and TRANSLATIONAL RESEARCH
An Official Journal of the Controlled Release Society

2019 DDTR BEST PAPER OF THE YEAR

Drug Delivery and Translational Research (DDTR) is an official journal of the CRS. Our board has selected, in collaboration with the journal’s editorial board, the best paper published in DDTR during the year of 2019: **“Tumor growth inhibition by mSTEAP peptide nanovaccine inducing augmented CD8⁺ T cell immune responses”**

Q. Chen, Y. Bao, D. Burner, S. Kaushal, Y. Zhang, T. Mendoza, M. Bouvet, C. Ozkan, B. Minev & W. Ma
Drug Deliv Transl Res. 2019 Dec;9(6):1095-1105



Highlights of the CRS FG NND Webinar



On February 18, 2020, we hosted a Webinar for our FG members. Dr. Roy van der Meel from Eindhoven University of Technology was our guest speaker and talked about "Lipid nanoparticle technology enabling nucleic acid therapeutics". The webinar and discussion were moderated by Dr. Luis Santos, our board's industry representative. We are deeply thankful to Dr. Roy for the terrific lecture, which you can now watch [here!](#) ■

Video Competition



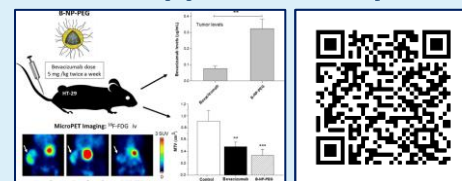
Our video competition was a success! We received outstanding videos from 8 PhD students around the world. Together, the videos account for nearly 6,000 views on YouTube! The winner was selected based on the public voting (with more than 1,100 valid votes) and the FG NND board voting. Paz Boix-Montesinos, PhD student at the Príncipe Felipe Research Center, Spain, was the winner of the competition! Congratulations to all for the amazing [videos!](#) ■

DDTR FG NND Special Issue

The DDTR board and its Editor-in-Chief Prof. María José Alonso invited the FG NND for a journal's Special Issue. Prof. Bruno Sarmento (FG NND immediate past chair) and Prof. Steven R. Little (chair of the CRS Annual Meeting Program Committee) served as guest editors. The issue entitled "Fundamentals of Nanomedicines Towards Clinical Translation" was just released (June 2020), and accounts for two editorials (from the **Editor-in-Chief** and **guest editors**), one **inspirational note** from Dr. Jeff Hrkach and Prof. Robert Langer, and twenty original articles. The editorial board has selected the article below as the best paper of the FG NND Special Issue.

"In vivo efficacy of bevacizumab-loaded albumin nanoparticles in the treatment of colorectal cancer"

I.L.d. Redín, F. Expósito, M. Agüeros, M. Collantes, I. Peñuelas, D. Allemandi, J.M. Llabit, A. Calvo & J.M. Irache
Drug Deliv Transl Res. 2020 Jun;10(3):635-645



Our board has also contributed to this Special Issue with a commentary article on the decision of the United States National Cancer Institute (NCI) in halting funding for the Centers of Cancer Nanotechnology Excellence (CCNEs), and the subsequent editorial articles that broadened that discussion. The article accounts for more than 3,700 accesses on the journal's website! You can read it [here!](#) ■

"The solid progress of nanomedicine"

J.P. Martins, J.d. Neves, M.d.I. Fuente, C. Celia, H. Florindo, N. Günday-Türeli, A. Popat, J.L. Santos, F. Sousa, R. Schmid, J. Wolfram, B. Sarmento & H.A. Santos
Drug Deliv Transl Res. 2020 Jun;10(3):726-729



INTERVIEW WITH A LUMINARY

Prof. Hélder A. Santos

Chair of the CRS FG NND



'Interview with a Luminary' is an exciting initiative from the CRS Young Scientist Committee (YSC), which aims to give, and we quote "an insight into the minds of those at the pinnacle of drug delivery research around the globe". This time, our FG's chair Prof. Hélder A. Santos was the interviewee. Prof. Santos talked about his interest in science and, particularly, in drug delivery, the way he sees his research field progressing and if he would change anything in his career path. Prof. Santos also gave advice to young scientists and shared some of his hobbies. You can read the full interview [here!](#) ■



This publication reflects only the views of the CRS FG NND board. We welcome contributions from members of our focus group community. Copyright © 2020 CRS FG NND

1st Edition of the CRS FG NND Member Feature Articles

A few months ago, we launched an exciting initiative to promote the esteemed members of our FG. They were given a series of questions about themselves and their research in nanomedicine, which were further compiled and advertised on social media. You can now get to know our members better by taking a look to the '1st Edition of the CRS FG NND Member Feature Articles' [here](#)! Stay tuned and you may get the chance of participating in the next edition soon! ■

CRS FOCUS GROUP IN
NANOMEDICINE AND NANOSCALE DELIVERY

MEMBER FEATURE ARTICLES



Upcoming Meetings

Jun 29-Jul 2, 2020

2020 CRS Virtual Annual Meeting
"2020 Vision for Global Impact"

[MORE INFO](#)

October 14-16, 2020

ETPN2020

Heraklion, Greece

[MORE INFO](#)

November 9-12, 2020

**The 6th International Conference
on Microneedles 2020**



SKY 31 Convention, Lotte World
Tower in Seoul, Korea

[MORE INFO](#)

FOLLOW US ON
twitter
@CRS_FG_NANO



Thank you for following us!
**2000
FOLLOWERS**

SPECIAL SESSION
Celebrating Kinam Park
For his 15 years of outstanding service as
Editor-in-Chief of the *Journal of Controlled Release*
Moderated by Christine Allen, University of Toronto,
Editor-in-Chief of the *Journal of Controlled Release*
Sponsored by Elsevier



#CRS2020 JUNE 29-JULY 2, 2020 | CRS 2020 VIRTUAL ANNUAL MEETING

**Response to the
Coronavirus Outbreak**
Susan I. Gerber, MD
Epidemiology Task Force, COVID-19 Response
Chief, Respiratory Viruses Branch, DVD, NCIRD
Centers for Disease Control and Prevention
Kate Broderick, PhD
Senior Vice President R&D
Inovio Pharmaceuticals



#CRS2020 JUNE 29-JULY 2, 2020 | CRS 2020 VIRTUAL ANNUAL MEETING

The board of the CRS FG NND is committed towards excellence, and driven by a solid will of making a difference in the field of nanomedicine! If there is anything you would like to address to us, or if there is anything we can do for you, please, do not hesitate in contacting us! ■

e-POSTER COMPETITION



#CRS2020vAM