Title
Nano in Boston and Beyond

Journal
ACS Nano, 12(9)

ISSN
1936-0851

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Publication Date
2018-09-25

DOI
10.1021/acsnano.8b07025

Peer reviewed

ACS NANO
Cite This: ACS Nano 2018, 12, 8833−8834
www.acsnano.org

EDITORIAL

Nano in Boston and Beyond

We thank you for a terrific week of nano in Boston at the fall American Chemical Society meeting! The editors of *ACS Nano*, our advisory board, and our authors were instrumental in putting together programs on advances in nanoscience and nanotechnology and how these are impacting other fields. We had sessions on nano in energy harvesting and storage, neuroscience, photonics, space, sustainability, three-dimensional (3D) printing, tissue engineering, and more. We also had sessions, talks, and events on science communications and support for nanoscience and nanotechnology in the United States and around world, topics that are closely intertwined.

One of the key takeaways is that we need to communicate what the contributions of nanoscience and nanotechnology are and will be to our colleagues, to the public, and to government leaders around the world. Since there are few devices, materials, or objects that are "purely nano", it is important for us to highlight what is "nano-enabled." Nano Day is coming up on October 9 (10^{-9}),[1] which will be a good reminder for all of us to start and to continue this outreach. In Los Angeles, we will once again be getting together to celebrate (ironically) at 1 Pico, in Santa Monica. If you are in town, please join us. If you are elsewhere, let us know what you are doing and where you will be meeting. On December 3 of this year, we will celebrate the 15th anniversary of the signing of the U.S. Nanotechnology Research and Development Act, which put into law the National Nanotechnology Initiative (NNI) programs and activities that continue to this day and that catalyzed nanoscience and nanotechnology research around the world. Stay tuned for more on how we will recognize this anniversary.

> We need to communicate what the contributions of nanoscience and nanotechnology are and will be to our colleagues, to the public, and to government leaders around the world.

In the meantime, one of the outcomes of a lively meeting of our *ACS Nano* editors in Boston was a commitment to do even more to lay out the challenges and opportunities ahead for nanoscience and nanotechnology, as we have done in the technology roadmaps for the BRAIN[2] and microbiome initiatives,[3] in other pieces,[4] and in our *ACS Nano* futures workshops.[5] These articles and activities provide key touchstones to advance and to accelerate both our science and impact.

Announcements. We are delighted to announce that Prof. Dr. Tanja Weil, director of the Synthesis of Macromolecules Department at the Max Planck Institute for Polymer Research in Mainz, Germany has joined *ACS Nano* as an associate editor. Prof. Weil's research spans synthesis, modification, characterization, and applications of polymers, biomolecules, and materials, as well as therapeutics, delivery, precision sensing, and catalysis.[4,6−8] Please join us in welcoming her!

Prof. Dr. Tanja Weil of the Max Planck Institute for Polymer Research in Mainz, Germany has joined ACS Nano as an associate editor. Photo credit: Elvira Eberhardt.

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Notes

Views expressed in this editorial are those of the author and not necessarily the views of the ACS.

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ACKNOWLEDGMENTS

We thank Ms. Holly Bunje for help in preparing this editorial.

REFERENCES

(1) Kagan, C. R.; Fernandez, L. E.; Gogotsi, Y.; Hammond, P. T.; Hersam, M. C.; Nel, A. E.; Penner, R. M.; Willson, C. G.; Weiss, P. S. Nano Day: Celebrating the Next Decade of Nanoscience and Nanotechnology. *ACS Nano* **2016**, *10*, 9093−9103.

(2) Alivisatos, A. P.; Andrews, A. M.; Boyden, E. S.; Chun, M.; Church, G. M.; Deisseroth, K.; Donoghue, J. P.; Fraser, S. E.; Lippincott-Schwartz, J.; Looger, L. L.; Masmanidis, S.; McEuen, P. L.; Nurmikko, A. V.; Park, H.; Peterka, D. J.; Reid, C.; Roukes, M. L.; Scherer, A.; Schnitzer, M.; Sejnowski, T. J.; et al. Nanotools for Neuroscience and Brain Activity Mapping. *ACS Nano* **2013**, *7*, 1850−1866.

(3) Biteen, J. S.; Blainey, P. C.; Cardon, Z. G.; Chun, M.; Church, G. M.; Dorrestein, P. C.; Fraser, S. E.; Gilbert, J. A.; Jansson, J. K.; Knight, R.; Miller, J. F.; Ozcan, A.; Prather, K. A.; Ruby, E. G.; Silver, P. A.;

Published: September 25, 2018

DOI: 10.1021/acsnano.8b07025
ACS Nano 2018, 12, 8833−8834

Taha, S.; van den Engh, G.; Weiss, P. S.; Wong, G. C. L.; et al. Tools for the Microbiome: Nano and Beyond. *ACS Nano* **2016**, *10*, 6−37.
(4) Pelaz, B.; Alexiou, C.; Alvarez Puebla, R. A.; Alves, F.; Andrews, A. M.; Ashraf, S.; Balogh, L. P.; Ballerini, L.; Bestetti, A.; Brendel, C.; Bosi, S.; Carril, M.; Chan, W. C. W.; Chen, C.; Chen, X.; Chen, X.; Cheng, Z.; Cui, D.; Du, J.; Dullin, C.; et al. Diverse Applications of Nanomedicine. *ACS Nano* **2017**, *11*, 2313−2381.
(5) Chan, W. C. W.; Khademhosseini, A.; Möhwald, H.; Parak, W. J.; Miller, J. F.; Ozcan, A.; Weiss, P. S. Accelerating Advances in Science, Engineering, and Medicine through Nanoscience and Nanotechnology. *ACS Nano* **2017**, *11*, 3423−3424.
(6) Ng, D. Y. W.; Wu, Y.; Kuan, S. L.; Weil, T. Programming Supramolecular Biohybrids as Precision Therapeutics. *Acc. Chem. Res.* **2014**, *47*, 3471−3480.
(7) Liu, W.; Naydenov, B.; Chakrabortty, S.; Wuensch, B.; Hübner, K.; Ritz, S.; Cölfen, H.; Barth, H.; Koynov, K.; Qi, H.; Leiter, R.; Reuter, R.; Wrachtrup, J.; Boldt, F.; Scheuer, J.; Kaiser, U.; Sison, M.; Lasser, T.; Tinnefeld, P.; Jelezko, F.; et al. Fluorescent Nanodiamond−Gold Hybrid Particles for Multimodal Optical and Electron Microscopy Cellular Imaging. *Nano Lett.* **2016**, *16*, 6236−6244.
(8) Chakrabortty, S.; Agrawalla, B. K.; Stumper, A.; Vegi, N. M.; Fischer, S.; Reichardt, C.; Kögler, M.; Dietzek, B.; Feuring-Buske, M.; Buske, C.; Rau, S.; Weil, T. Mitochondria Targeted Protein-Ruthenium Photosensitizer for Efficient Photodynamic Applications. *J. Am. Chem. Soc.* **2017**, *139*, 2512−2519.

DOI: 10.1021/acsnano.8b07025
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