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## Newsletter for April 11, 2006

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### Announcements

#### Recent Science News: *ES&T* Reports on the Interaction of Nanoparticles and Red Blood Cells

The study entitled [Interaction of Fine Particles and Nanoparticles with Red Blood Cells Visualized with Advanced Microscopic Techniques](#) posted on *ES&T*'s Research ASAP website shows that many different types of particles with diameters below 100 nanometers (nm) can penetrate human red blood cells. The researchers found that the surface charge and the material of the particles did not influence their entering. These results suggest that particles may penetrate the red blood cell membrane by a still unknown mechanism different from phagocytosis and endocytosis. The study finds that size is the main determinant of whether nanoparticles can penetrate human red blood cells. The research adds to the growing body of evidence that nanoparticles do not behave like other fine particles.

#### Repeat Announcement: Cornell Invasive Species Forum - May 18th

Invasive species represent one of the greatest environmental challenges for the 21st century, causing tremendous losses in agriculture and wild lands. The control and mitigation of effects of invasive species requires not only an understanding of their basic biology, but also of the environmental complexity of the habitats and interactions in invaded areas. The focus of this forum will be on research at Cornell University, structured to inform and build collaborations at Cornell, inform community members of our efforts, and begin to help develop a strategic vision for the future. This campus event is being led by Anurag Agrawal of the Department of Ecology and Evolutionary Biology and hosted by the Center for the Environment. We are now assembling a list of potential speakers and interested people: Email [Paula Euvrard](#) to get on our list and receive further information directly.

#### AIBS Public Policy Report for April 10, 2006

AIBS submits congressional testimony on FY 07 budget

Ehlers/Holt Dear Colleague letter on NSF

U.S. Fish and Wildlife Service reports a net gain in U.S. wetland acreage

[Read the full report](#)

#### New Grant and Project Opportunities

[Browse Complete RFP Listings >>](#)

##### New

[USDA Forest Service: PA & CT Highlands Regional Study Updates](#) (Apr 21)

[NIH: Molecular Probes for Microscopy of Cells](#) (May 25)

- [NSF: Hydrologic Science Grants](#) (Jun 1)
- [NSF Biomolecular Systems Cluster Grants](#) (Jul 9)
- [NSF Ecological Biology Cluster Grants](#) (Jul 9)
- [NSF Ecosystem Science Cluster Grants](#) (Jul 9)
- [NSF Population & Evolutionary Processes Cluster Grants](#) (Jul 9)
- [NSF Systematic Biology and Biodiversity Inventories Cluster Grants](#) (Jul 9)

### **Deadlines in April**

- [NOAA: Sea Grant Marine Aquaculture Program](#) (Apr 13)
- [NASA: Interdisciplinary Research in Earth Science](#) (Apr 17)
- [NIH/NIEHS: Community Participation in Research](#) (Apr 17, May 17)
- [NY Sea Grant: Long Island Sound Study \(LISS\) Graduate Fellowship](#) (Apr 17)
- [EPA Broad Agency Announcement \(BAA\): Conference Funds](#) (Apr 18)
- [NIH: Collaborations with Nat'l Ctrs of Biomedical Computing](#) (Apr 19, May 17)
- [Hudson River Foundation: Graduate Fellowships](#) (Apr 20)
- [NOAA/Sea Grant: Invasive Species Grant Competition](#) (Apr 24)
- [NASA: Discovery Data Analysis Program \(DDAP\)](#) (Apr 28)
- [NASA: Precipitation Science](#) (Apr 28)

### **Deadlines in May**

- [American Museum of Natural History: Grad & Post-Doc Grants](#) (May 1)
- [NASA: International Polar Year](#) (May 1)
- [National Academies: Research Associateship Programs \(RAP\)](#) (May 1)
- [NOAA/Sea Grant: Climate Extension Specialist Partnership](#) (May 1)
- [NSF: Graduate Research Supplements \(GRS\)](#) (May 1)
- [Canon National Parks: Science Scholars Program for the Americas](#) (May 3)
- [NASA: Planetary Geology and Geophysics](#) (May 5)
- [EPA: Pollution Prevention Grants](#) (May 15)
- [MacArthur Foundation: Conservation & Sustainable Development](#) (May 15)
- [NASA: Tropical Composition, Cloud & Climate Coupling Experiment](#) (May 15)
- [Nat'l Fish & Wildlife Foundation \(NFWF\): Regional Wildlife Conservation](#) (May 15)
- [EPA STAR: Advances in Benefit Transfer Methods](#) (May 16)
- [EPA STAR: Collaborative Sci & Tech for Sustainability](#) (May 17)
- [USDA/NRI: Animal Growth and Nutrient Utilization](#) (May 17)
- [NASA: Cosmochemistry](#) (May 19)
- [EPA/Health Effects Institute \(HEI\): Health Effects of Air Pollution](#) (May 23)

### **Deadlines in June**

- [Dep't of Health & Human Services: Science & Ecology of Early Development](#) (Jun 1)
- [NASA: Physical Oceanography](#) (Jun 1)
- [Nat'l Inst of Environ Health Services \(NIEHS\): Small Research Grants](#) (Jun 1)
- [NSF: Hydrologic Sciences](#) (Jun 1)
- [Housing & Urban Development \(HUD\): Healthy Homes & Lead Technical Studies](#) (Jun 6, Jun 7)
- [NSF: Antarctic Research](#) (Jun 7)
- [NASA: Advancing Collab. Connections for Earth Science \(ACCESS\)](#) (Jun 14)
- [NASA: Research and Modeling of Atmospheric Composition](#) (Jun 15)
- [USDA/CSREES: National Research Initiative - Air Quality \(NRICGP\)](#) (Jun 15)
- [USDA/NRI: Plant Biosecurity](#) (Jun 15)

## Deadlines in July

[NATO Security Through Science Program](#) (Jul 1)

[NIOSH Special Emphasis Research Career Award Program](#) (Jul 1)

## Select Seminars and Campus Events

Biochemistry, Molecular and Cell Biology Seminars:

12:20 PM Mondays in G-O1 Biotechnology Building

Schedule at - [http://www.mbg.cornell.edu/BMCB\\_Monday\\_Seminars.cfm](http://www.mbg.cornell.edu/BMCB_Monday_Seminars.cfm)

Biogeochemistry and Environmental Biocomplexity Seminars:

4:00 PM Fridays in Morison Room, Corson Hall

Schedule at - <http://www.biogeo.cornell.edu/seminars.html>

Biophysics Seminars:

4:30 PM Wednesdays in 700 Clark Hall

Schedule at - <http://www.drbio.cornell.edu/Dissemination/seminars.html>

Civil and Environmental Engineering Seminars:

Variable dates, times and locations

Schedule at - <http://www.cee.cornell.edu/fbxk/seminars.cfm>

Crop and Soil Sciences Seminars:

12:20 PM Thursdays in 135 Emerson Hall

Schedule at - <http://www.css.cornell.edu/seminars/seminar.html>

Earth and Atmospheric Sciences Seminar Series:

Variable dates, times and locations

Schedule at - <http://www.eas.cornell.edu/fbxk/smnrs.cfm>

Ecology and Evolutionary Biology Seminars:

12:30 PM Mondays in A106 Corson Hall

Schedule at - <http://www.eeb.cornell.edu/department/seminars.html>

Entomology Seminars:

3:30 PM Mondays in Corson-Mudd Auditorium

Schedule at - <http://www.entomology.cornell.edu/Jugatae/default.htm>

Genetics and Development:

12:20 PM Wednesdays in GO1 Biotechnology Building

Schedule at - [http://www.mbg.cornell.edu/GD\\_Wednesday\\_Seminars.cfm](http://www.mbg.cornell.edu/GD_Wednesday_Seminars.cfm)

Horticulture Seminars:

11:15 AM Mondays in Whetzel Room, Plant Science 404

Schedule at - [http://www.hort.cornell.edu/department/news\\_events/2005springseminar.pdf](http://www.hort.cornell.edu/department/news_events/2005springseminar.pdf)

Laboratory of Ornithology Seminar Series:

7:30 PM Mondays in the auditorium of the Johnson Center for Birds and Biodiversity

Schedule at - <http://www.birds.cornell.edu/LabPrograms/Education/MNSFallod.html>

Molecular Biology and Genetics Seminars:

4:00 PM Fridays in G10 Biotechnology Building

Schedule at - [http://www.mbg.cornell.edu/MBG\\_Seminars.cfm](http://www.mbg.cornell.edu/MBG_Seminars.cfm)

Natural Resources Seminars:

3:30 PM Tuesdays in 304 Fernow Hall

Schedule at - <http://www.dnr.cornell.edu/events/seminars/>

Plant Biology Seminars:

11:15 AM Fridays in 404 Plant Science, Whetzel Room

Schedule at - <http://www.plantbio.cornell.edu/seminars.php>

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