

University of Nebraska - Lincoln

DigitalCommons@University of Nebraska - Lincoln

Nebraska College Preparatory Academy Senior
Capstone Projects

Nebraska College Preparatory Academy

Spring 2015

Controversial and Non-controversial topics of Nanotechnology

Phillip Astorino
Ohama North High School

Follow this and additional works at: <http://digitalcommons.unl.edu/ncpacapstone>



Part of the [Nanomedicine Commons](#)

Astorino, Phillip, "Controversial and Non-controversial topics of Nanotechnology" (2015). *Nebraska College Preparatory Academy Senior Capstone Projects*. 33.

<http://digitalcommons.unl.edu/ncpacapstone/33>

This Article is brought to you for free and open access by the Nebraska College Preparatory Academy at DigitalCommons@University of Nebraska - Lincoln. It has been accepted for inclusion in Nebraska College Preparatory Academy Senior Capstone Projects by an authorized administrator of DigitalCommons@University of Nebraska - Lincoln.

Controversial and Non-controversial topics of Nanotechnology

Phillip M. Astorino

Omaha North High School 2015
University of Nebraska-Lincoln



Abstract

Advancements in medicine have allowed people to heal the sick. Even though these accomplishments in medicine have cured some of the problems, there are those that even medicine cannot fix.

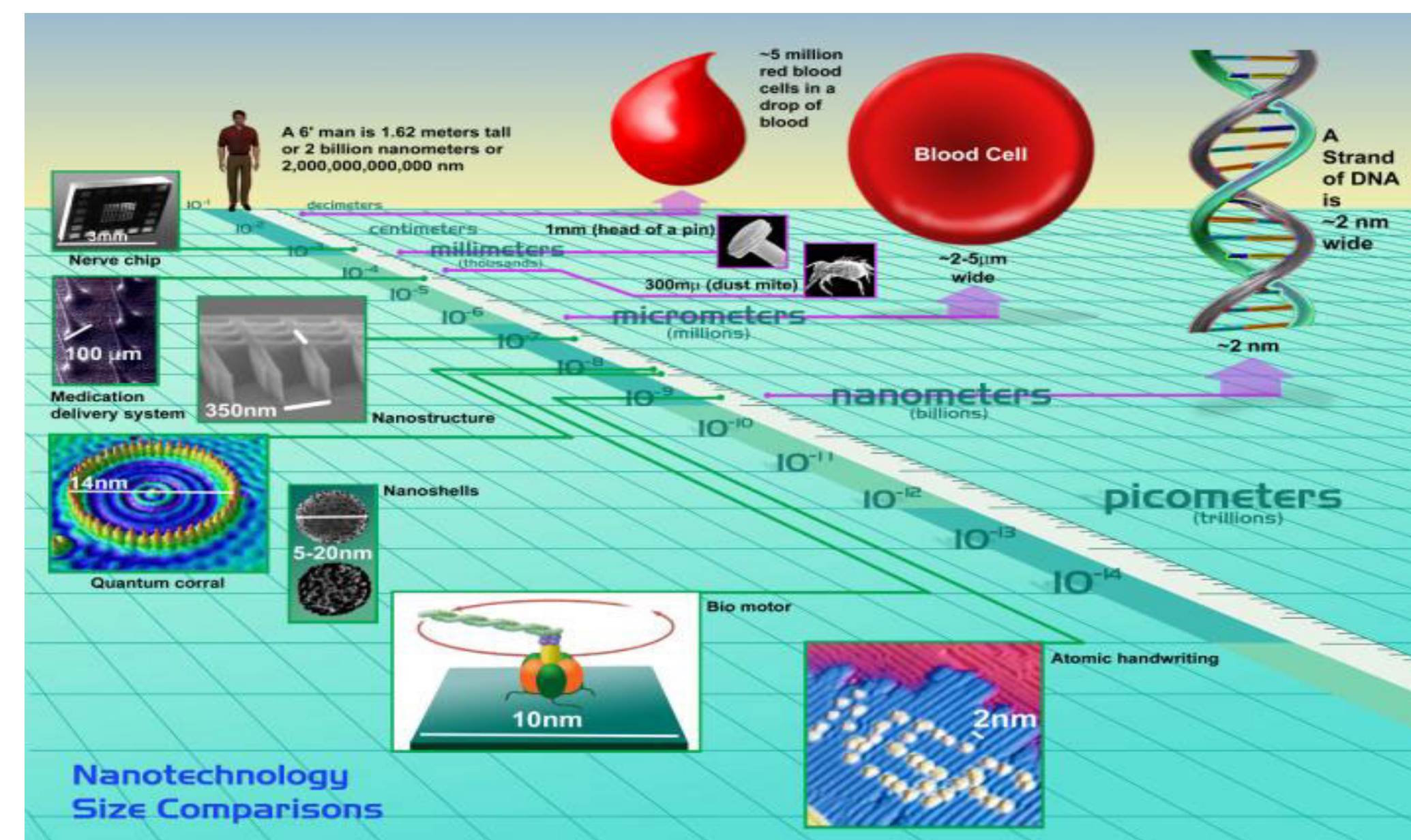
So we look to science for help, and there is one field that is close to revolutionizing the world with their advancements in technology. This field has a specific name: Nanotechnology.

It's long-term goal is the full manipulation of atoms, molecules, and materials to form structures on the scale of one billionth of a meter, which is commonly known as a nanometer; not only can we use this to improve the human body, but as well as change the way we live.

Unfortunately, as visual in the world of science, there are moral, ethical, and religious conflicts that come along with change. Thus, the implications of this technology are far too great for us to ignore.

Key Points:

- **“Playing god”**- The religious conflict concerning man as “playing god.” Should we as humans change things about ourselves, such as appearance, strength, IQ .etc?
- **Heal sickly**- Mankind will be able to cure many ailments, from cancer to AIDs., by sending small microscopic bots into ones system and destroying the corrupt cells in the body, bringing no harm to the person.
- **Changing/improvements** - Mankind will be able to change their body as they see fit, from IQ to appearances.
- **Change daily life**- nanotech will be used everywhere, from advancing medicine to cleaning drinking water.
- **Rich get richer**- controversy involving the expense of this technology and how the rich will get smarter, faster, stronger; thus richer and more successful; because of the cost of this technology, average civilians may suffer from not having access to it.



Conclusion & Discussion

The benefits of this technology are far to much of an advancement for us (the people of the world) to ignore. This advancement will change the world, from our bodies to the very things around us.

With nanotechnology, we will be able to create a cleaner and better world; all ethical and moral standards will inadvertently change because of the benefits of this technology for the world.

In conclusion the world will change from this particular technology and with it great things will come in the future. Things thought impossible. Things that will change the world for the better.

Future Research

As for what I might research in the future, I would look more into the depth of how this technology might help science detect smaller particles and the ability to create objects and to break down objects further than a nanometer.



Work Cited:

- Aatish Salvi/George A. Kimbrell. LATimes. "Nano-morals." NanoBusiness Alliance, 2008. LATimes. 16 June 2014
Aatish Salvi/George A. Kimbrell. LATimes. "Nanotech, now and later." NanoBusiness Alliance, 2008. LATimes. 17 June 2014
Aatish Salvi/George A. Kimbrell. LATimes. "Nanotech Nightmares." NanoBusiness Alliance, 2008. LATimes. 18 June 2014
Aatish Salvi/George A. Kimbrell. LATimes. "Nanotech: Yay or nay." NanoBusiness Alliance, 2008. LATimes. 19 June 2014
AL-Jomal, Khuloud. "Carbon Nanotubes Deliver in Medicine." *American Scientist* Vol.103. Issue 2: pg. 122-127. EBSCO HOST. Web. 31. March
Boyle, Peter. *Nanotechnology in Medicine*. Digital image. Boyle-associates. 14 Nov. 2012. Web
Jacob Heller/ Christine Peterson. "Human Enhancement and Nanotechnology." Foresight Institute advancing beneficial nanotechnology, 2014. James B. Lewis Enterprises. 12 June 2014.
Kaddour, Nadia. No Law in Nanoland: How to Reverse the Trend? The French Example." *Pace Environment law review* vol. 30 Issue 2: pg.486-522. EBSCO HOST. Web. 31. March 2015
Resnik, David B. "Responsible Conduct in Nanomedicine Research: Environmental Concerns Beyond the Common Rule." *Journal of Law, Medicine & Ethics* vol.40 Issue 4: pg 848-855. EBSCO HOST. Web. 31. March 2015
<http://nanoexperts.net/about-nano/nano-technology/nanotechnology-is-around-you>
<http://mashable.com/category/dna/>