

From: [Deltoral, Miguel](#)  
 To: [R5 WD GWDW](#); [Suero, Mary Ann](#); [Mike Crumly](#); [Stacy Jones](#); [April Swift](#); [Cook, Pat \(DEQ\)](#); [Lih-In Bezanja](#); [Mark.Nelson@Wisconsin.gov](#); [Benzie, Richard \(DEQ\)](#); [Beth.Messer@epa.state.oh.us](#); [Dave.McMillan@illinois.gov](#); [DeBruyn, Dana \(DEQ\)](#); [jill.jonas@wisconsin.gov](#); [lee.boushon@wisconsin.gov](#); [mike.baker@epa.state.oh.us](#); [Monosmith, Carrie \(DEQ\)](#); [pcarroll@dem.in.gov](#); [randy.ellingboe@state.mn.us](#); [rick.cobb@illinois.gov](#); [Robert.Smude@state.mn.us](#); [Shekter Smith, Liane \(DEQ\)](#)  
 Subject: FW: Recent PNAS Article on Copper and Alzheimer's  
 Date: Wednesday, August 21, 2013 7:28:45 AM

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FYI - A new study on Cu and Alzheimer's. The article is free to download from the 'pnas' site. The BBC article (last link) has a good plain-English summary of the findings for the general public.

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From: Shao, Nicole  
 Sent: Tuesday, August 20, 2013 10:44 AM  
 To: Ellis, Jerry; Adams, Darryl; Bell, Aaron L.; Christ, Lisa; Clement, Robert; Damico, Brian; Darman, Leslie; Deason, Ken; DeMarco, Carol; Donahue, Lisa; Donohue, Joyce; Erickson, Dana; Farber, Glenn; St-Denis, Francine; Gambatese, Jason; Guignet, Dennis; Hankinson, Julie; Helm, Erik; Kempic, Jeffrey; Kwong, Ellie; Lorenz, Alyson; Marshall, Wendy; Mehta, Suril; Palagian, Evangelia; Poon, Robert; Porter, Andrea; Rasso, Mark; Rizzo, George; Robinson, Matt M.; Shao, Nicole; Smith, Brian; Smith, Lameka; Schock, Michael  
 Cc: [gbingham@resolv.org](mailto:gbingham@resolv.org); Cantilli, Robert; Lytle, Darren; Speth, Thomas; Corona, Elizabeth; Berner, Ted; Zhao, Jay; Jones, Marjorie; Deltoral, Miguel  
 Subject: Recent PNAS Article on Copper and Alzheimer's

LCR Workgroup,

Attached is a link to the recent (8/19/13) Singh et al. article in PNAS (Proceedings of the National Academy of Sciences) entitled, "Low levels of copper disrupt brain amyloid-B homeostasis by altering its production and clearance."

<http://www.pnas.org/content/early/2013/08/14/1302212110.full.pdf+html>

There have been several articles in the media covering this article.

<http://www.bbc.co.uk/news/health-23755037>

<http://www.latimes.com/science/sciencenow/la-sci-copper-alzheimers-disease-20130819.0.5977613.story>

"Copper<<http://www.latimes.com/topic/health/dietary-supplements/copper-%28dietary-supplement%29-HESUP000026.topic>> is found in a wide range of the foods we eat, including red meat, shellfish, nuts and many fruits and vegetables, as well as in many vitamin supplements. It also leaches from copper pipes into the water we drink. While we take in copper from foods, it is most readily absorbed into the bloodstream in its "free" form, say researchers -- when it is suspended in water."

"But even now, Deane said, consumers could be checking their vitamin supplements for copper and researching whether their water filters are equipped to remove copper from their drinking supply."

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