

**Committee for Protection of Human Subjects (CPHS) Office for Protection of Human Subjects (OPHS)**  cphs.berkeley.edu ophs@berkeley.edu

## Spring Things: New UCB Exempt Category 7 and CPHS Membership

APRIL 2015

Dear Members of the UCB Human Research Community,

VOLUME 2<br/>ISSUE 1Once again, we are happy to introduce the latest issue of UC Berkeley Human Research<br/>News. In this letter, we'd like to call your attention to several important topics related<br/>to human subjects research at UC Berkeley.

INSIDEThe first item will be great news to investigators who wish to conduct minimal-risk<br/>research that appears to be "exempt" but does not fit any of the six categories for<br/>exemption described in the federal regulations on human research (45 CFR 46).

1 Letter from the Chairs

2 Regulatory, Policy & Guidance Updates

**3** Brains at Berkeley!

4 Accolades for Our Investigators A seventh category of exempt research activities has been defined by CPHS and OPHS, using flexibility in UCB's Federalwide Assurance. Projects may qualify per the *inclusion/exclusion criteria* outlined in our new *Exempt Research* guidelines and *Policies & Procedures* documents. This updated guidance is now available on the CPHS/OPHS website (<u>http://cphs.berkeley.edu</u>) and has been incorporated into the eProtocol application system. See the article inside and check out our website for more details!

The second item is an invitation to UCB faculty to join CPHS-1 or CPHS-2. At this time of year, we are always looking for members to replace those who are rotating off the committees. If you wish to share your expertise, acquire and apply knowledge about ethical and regulatory issues, and "give back" to our dynamic UC Berkeley research community, we encourage you to contact OPHS Director Becky Armstrong for further information in this regard.

As always, we hope that you enjoy the enclosed news and features, and welcome your feedback for upcoming issues.

Sincerely,

Robert DiMartino, O.D., M.S., F.A.A.O. Chair, CPHS-1

Jane Maulda

Jane Mauldon, Ph.D. Chair, CPHS-2

UC BERKELEY HUMAN RESEARCH NEWS			
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	Regulatory, Policy, and Guidance Updates		
<ul> <li>UCB Exempt Category 7 joins federal Exempt Categories 1 to 6</li> </ul>			
APRIL 2015	A new UCB category for exempt review is now available! Using the flexibility under UC Berkeley's Federalwide Assurance (FWA), CPHS and OPHS have delineated a seventh UCB category for research activities that are minimal-risk and meet other inclusion standards for exemption, but do not fit into any of the six exempt categories defined in the federal human research regulations. Our intent is to reduce regulatory burden on researchers.		
VOLUME 2 ISSUE 1 <u>INSIDE</u> <u>THIS ISSUE</u>	Activities that fit into <b>Category 7</b> may include (but are not limited to): non-physically invasive interventions or performance of tasks such as reading, writing, or drawing; physical activities such as walking, sitting, or manipulating an object; computer tasks or Internet searches; talking and/or listening to words, then making selections, or "think-aloud" exercises; viewing media; role-playing; completing a specific physical or mental action ("imagining"); passive monitoring of space (environment) with sensors; playing a game; and/or height or weight measurements.		
<ol> <li>Letter from the Chairs</li> <li>Regulatory, Policy &amp; Guidance Updates</li> <li>Brains at Berkeley!</li> <li>Accolades for Our Investigators</li> </ol>	To qualify for exemption under UCB Category 7, a research project must be comprised of minimal-risk activities <i>only</i> . It will <u>not</u> qualify if any other specified exclusions apply, including involvement of federal funding or regulation, vulnerable subject populations (such as children or prisoners), biomedical or clinical interventions, or deception of subjects. A <b>complete list of exclusions</b> is outlined in our CPHS <u>Exempt Research</u> Guidelines as well as the <u>Determination of Exemption</u> Policies & Procedures. Be sure to read these updated guidance documents for details about what activities may or may not be included in all seven exemption categories.		
	<i>Please note:</i> Individual investigators do not have the authority to determine that their own research qualifies for exempt status; this decision must be made by OPHS staff, upon review of a Request for Determination of Exempt Status application submitted by the investigator.		
<ul> <li>OHRP drafts "standard of care" guidance</li> </ul>			
	Responding to the storm of controversy surrounding a 2013 NIH-funded trial of oxygen saturation levels in preemies, the HHS Office for Human Research Protections (OHRP) has developed guidance on how risks posed by "standard of care" studies like the oxygen trial should be disclosed to potential participants. The draft guidance, published 10/24/14, reaffirms the basic precepts of informed consent as a foundation of ethical conduct in research, says OHRP Direct Jerry Menikoff. (See <a href="http://www.hhs.gov/ohrp/index.html">http://www.hhs.gov/ohrp/index.html</a> .)		
	NIH changes general definition of "clinical trial"		

Effective 1/25/15, NIH defines "clinical trial" as "a research study in which one or more human subjects are prospectively assigned to one or more interventions (which may include placebo or other control) to evaluate the effects of those interventions on health-related biomedical or behavioral outcomes." The new definition is "designed to make the distinction between clinical trials and clinical research studies clearer, and to enhance the precision of the information NIH collects, tracks, and reports on clinical trials."

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	Brains at Berkeley!		
	A small sampling of intriguing news about UCB research on the human	brain:	
	BRAIN Initiative research grants - major awards to UCB researchers		
APRIL 2015	On 9/30/14, National Institutes of Health (NIH) announced its first rese President Obama's Brain Research through Advancing Innovative Neur Initiative, including awards to UC Berkeley totaling nearly \$7.2 million	rotechnologies (BRAIN)	
VOLUME 1 Issue 2	John Ngai, Professor of Neuroscience and director of the QB3 Functional Genomics Lab, and his UCB colleagues will <i>profile brain cells</i> , using new techniques for identifying and isolating different neurons, then sequencing their genes. David Feinberg, Adjunct Professor of		
INSIDE THIS ISSUE 1 Letter from the Chairs	Neuroscience, and his collaborators at UCSF, Harvard, and Duke Universities will increase detail of magnetic resonance imaging (MRI) more than 30 times over today's most power MRI scanners. A new technique, MR Corticography, will be used for <i>surface imaging of the brain</i> . Richard Kramer, Professor of Molecular and Cell Biology and chair in Molecular Bio of Diseases, and Ehud Isacoff, Professor of Molecular and Cell Biology and director of the Helen Wills Neuroscience Institute, will add <i>photoswitches</i> to the neurotransmitter reception the brain so they can be turned on or off with light to study their roles in brain circuits.	oday's most powerful urface imaging of the air in Molecular Biology and director of the rotransmitter receptors	
<b>2</b> Regulatory, Policy & Guidance Updates	Research finds neural compensation in people with Alzheimer's-r		
3 Brains at Berkeley!	According to a recent study led by UCB's William Jagust, the human brain is can neural workaround that can compensate for a buildup of beta-amyloid, a dest protein associated with Alzheimer's disease. As Dr. Jagust, who holds joint app Helen Wills Neuroscience Institute, the School of Public Health, and Lawrence National Lab, explained about the exciting findings, "This study provides evide there is plasticity in the aging brain that appears to be beneficial, even in the famyloid accumulation." Though it remains unclear why some people are better different parts of their brain than others, Jagust said, "I think it's very possible who spend a lifetime involved in cognitively stimulating activity have brains the able to adapt to potential damage." (See <u>full UCB Newscenter article</u> here.)	l, a destructive	
4 Accolades for Our Investigators		wrence Berkeley es evidence that in the face of beta- ire better at using possible that people orains that are better	
	<ul> <li>What babies tell us about artificial intelligence</li> </ul>		
	At the annual World Economic Forum in Davos, Switzerland in January panel member of an "SRO" discussion on artificial intelligence. Profess extensive research and expertise in developmental psychology and phi insights on a hot topic: can/might computers make decisions better th related post, Gopnik quotes Alan Turing, who not only proposed "the i a machine is intelligent, but also noted that the real secret to human in the langer and there a langer provide the terms and the secret to human in	or Gopnik drew on her ilosophy to share some an people? <u>In her</u> imitation game" to test if	

to learn, and thus a key achievement would be to design a machine that was like a child, not an adult. Gopnik describes how research in the last 15 years has shown three things even very young children can do which are far ahead of anything done by current computers, which can only process the data they are given: 1) Children are good at *choosing or creating a hypothesis* (out of infinite possibilities) *and then testing it*. 2) Children can *explore the world around them*, a crucial part of scientific learning. 3) Children can *learn by getting information from the other people around them in a number of surprisingly sophisticated ways*.

# UC BERKELEY HUMAN RESEARCH NEWS

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#### More on brain research and bioethics...

The Presidential Commission for the Study of Bioethical Issues (**Bioethics Commission**) has just released *Gray Matters: Topics at the Intersection of Neuroscience, Ethics, and Society*. This is the second volume of the Commission's two-part response to President Obama's request related to the BRAIN Initiative.

# APRIL 2015

# Accolades for Our Investigators

We add our congratulations for these well-deserved recognitions:

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#### UC BERKELEY HUMAN RESEARCH NEWS STAFF

Managing Editor: Louise Tipton, EdM, CIP Associate/Technical Editor: Diana Holt, MS, CIP Evelyn Nakano Glenn, Professor of Gender and Women's Studies and Ethnic Studies, and Mark A. Richards, Professor of Earth and Planetary Science, were the recipients of UC Berkeley's 2014 Chancellor's Award for Advancing Institutional Excellence. As noted by Chancellor Dirks in announcing the awards, the CAAIE is presented to UCB faculty "who have an extraordinary record of accomplishment in promoting diversity while advancing equity and inclusion through their scholarship, research, teaching, and public service." Professor Glenn is internationally recognized as a sociological scholar, and has done groundbreaking research on women's work, US labor and citizenship, comparative race and ethnic studies, and Japanese American experience. She is the Founding Director of UCB's Center for Race and Gender, a highly regarded student mentor, and has long been involved in a wide range of diversity and social justice initiatives. Professor Richards has provided visionary campus and national leadership in increasing

Professor Richards has provided visionary campus and national leadership in increasing diversity in the STEM fields during his 12-year tenure as Dean of Berkeley's Mathematical & Physical Sciences Division. He has designed and promoted numerous innovative and widely acclaimed programs, and has played a pivotal role in increasing diversity both in the Mathematical & Physical Sciences faculty and students earning PhDs in STEM. (*November 2014*)

The UC Berkeley Human Rights Center was recognized by The MacArthur Foundation with a 2015 MacArthur Award for Creative and Effective Institutions. From gathering evidence of Saddam Hussein's abuse of Iraqi Kurds to interviewing former Guantanamo detainees about torture and documenting the needs of sexual violence survivors, the Human Rights Center has conducted research on war crimes and other serious human rights violations for more than 20 years. The center has trained hundreds of students and advocates as well. "We have been on the frontlines providing local non-governmental organizations and international criminal courts with the scientific and technological tools to hold perpetrators accountable, reintegrate child soldiers, and reunite families separated by war," said faculty director Eric Stover, who has led this remarkable organization since 1996. The award comes with \$1 million, which the center will use to establish an endowment and to expand its sexual violence program. (*February 2015*).

You are welcome to send any comments or suggestions regarding the UC Berkeley Human Research News to <u>cphs\_news@berkeley.edu</u>!