

Send cash or check to..... Greg Buell PO Box 214 Key West Fl  
33041 NEW CELL # 305 340 8082 Call Greg to  
InventSomething! ...Next Revolution will be won by MD  
women!

When freed 1,001 Invention Projects on a CD and my web page

12-14-14 Mandy Miles... Inhibitory neuron functionality!!

12-14-14 Mandy Miles... Inhibitory Stage 4 functionality!!

12-14-14 Mandy Miles... Inhibitory Football functionality!!

12-14-14 Mandy Miles... Inhibitory 1,001 Nobels in Medicine  
in 2015 functionality!!

12-14-14 Mandy Miles... Hemingway House Writing Class "To  
Have Have Not" for 100 girls... MacBook Air, what's in the  
"AIR" in our 1984 II Society Today? Will Greg + Mary get a  
Pardon in time to work 24/7 on Christmas Day?

Mandy Miles, write next Sunday in the Key West Citizen write  
about the Hemingway House Writing Class "To Have Have  
Not" Christmas Day Writing Classes by 100 girls, this  
"Inhibitory neuron functionality" novel is finished by  
Christmas Night!

iPhone 6 Plus... free back to school supplies for these 4 girls + 1  
million SWF's when Mecca pays for the 200 stitches they she  
got in the Miami gas station hold up in 2000. 1980 was the  
Godsent Electric Windmill Ford Escort!

12-14-14 Gravity Bombs... "Renaissance MD women  
Journalists" there are none at the NY Times Today! Think  
Ahead of the lump in your throat to the lump in your breast  
before you write insensitive news about the London Plague,  
Today's BC 1984 II Society is like the "Hunger Games" and

MockingJays are the Fiery Cop Cars on Fire in Paris + Moscow. "Another Day in the Frontal Lobe" of our 1984 II Numb-Nutz Dictators World Wide. Brain Surgery via "JOY" perfume formula Love Potion mixed up at Los Alamos + Sandia Labs by Papoose, who was brainwashed 10 years ago thinking there would be a Christmas 2004 Miracle from God to STOP all the Fiery Cop Car Crashes... Stage 4 breast cancer at Los Alamos + Sandia labs never makes the front page of the NY Times even though "Radiation Bombs" are going off every minute of the day!

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12-14-14 Gravity Bombs... "Senate passed a \$1.1 trillion spending bill for the "New Manhattan Project for the Overnight Miracle Godsent Cure of Breast Cancer" Will Dr. Nancy say Yes to this Legal Polygamous Marriage to Share the Nobel for the Cure? Yes the Senate made Polygamous Marriage Legal if your are working 24/7 on a "Cure" with 1984 II cameras watching and recording all your internet research sessions.

12-14-14 Gravity Bombs... Star Travel to the 52 nearest Stars... "Exodus's Moral Challenge for Jews" Gravity Bombs secret weapon not the Gravity Engine to blast off to the nearest 52 Stars to check up on Gods work in the neighborhood, grin!

12-14-14 "Marriage Compromises" Mary walked down 38 Steps drunk on wine again last night, I just biked by her at the bar. I didn't wait for her to walk down the steps drunk with a cane in one hand and a purse in the other hand, and thought and thought how could she compromise our Marriage by falling down 39 Steps drunk before we got Hitchcocks "39 Steps" silent Jet Engine invention. Gravity Bomb in front of the Wine O falling down 39 Steps, I better think about this a little more. Grin!

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12-14-14 Mandy Miles "Marriage Compromises" Christmas Tree lights not Stage 4 Breast Cancer Cure!!

12-14-14 Mandy Miles "I Want To Be Perfect" Stage 4 BC is so no Key West News insensitive in 1984 II Society!

12-14-14 Mandy Miles "We had other things to do, Online Football" Stan's nephew Chris is Senior at NC. We saw every tackle, block, touchdown. No brainstorming 39 Catalyst Hormones for Stage 4 BC on our Saturday inside.

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12-14-14 Mandy Miles "Without a lump in my throat" without a electric storm in my brain for Stage 4 BC the pride for these football students proves I have been brainwashed by 1984 II HQ. LUMP in my breast, no a lump in my throat! Greg thinks I need to think ahead at when I find a LUMP in my breast.

12-14-14 Mandy Miles "Cheerleader Girlfriend's" with and without Stage 4 BC this Christmas...

12-14-14 Mandy Miles "Renaissance Man" is the Black Football Players like "OJ" in our 1984 II with Obama!

12-14-14 "Renaissance MD women Journalists"

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12-14-14 Mandy Miles "A Toughy Subject this Time..." 1984 II cameras on the dash of your car, in your home, on Duval in Key West. As it is "OJ" left a SWF for dead. Mandy Miles story of Black OJ is a double homicide. One for Stage 4 BC + last weeks purse snatching in Key West. Mandy Miles is not allowed to write up SWF sucker punched by the black at a gas station hold up yesterday. Or the other horrible news from her Thanksgiving Visit up north NJ. Joy Perfume formula would have been a better online football game for Mandy + stan. Touchdown would save 1 million lives by this time next year. Happy New Year Mandy Miles, and yes I will buy you a iPhone007 so you can see who has what STD and how many

men women and children they have had sex with on your laser guided caller id for this state of the arts 1984 II iPhone007.

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iPhone6 Plus... free back to school supplies for these 4 girls + 1 million SWF's when Mecca pays for the 200 stitches they she

got in the Miami gas station hold up in 2000. 1980 was the Godsent Electric Windmill Ford Escort!

12-14-14 Mandy Miles would have written.. "Inhibitory neuron functionality as a consequence of more complex network dynamics" this NEWS discovery that contributes significant insights to enhance understanding of normal and abnormal brain functionality. Football in NJ NEWS or this NEWS discovery that contributes significant insights to enhance understanding of normal and abnormal brain functionality.

12-14-14 "Inhibitory neuron functionality as a consequence of more complex network dynamics"

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Inhibitory neuron functionality as a consequence of more complex network dynamics Neurons in the primary visual cortex of an awake mouse. Credit: Sami Elboustani The two major types of neuron in the brain's cerebral cortex are connected by intricate cortical circuits that process information. Excitatory neurons, which comprise 80 percent of all neurons in this region, increase activity in target cells. The other 20 percent of neurons are inhibitory, producing the opposite effect.

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Inhibitory neurons (interneurons) have long been recognized as critical to understanding distinct kinds of information processing. Specific subtypes of interneurons can regulate response gain (the extent of reaction to stimuli) in excitatory neurons or shape response selectivity in target cells. In a new study scheduled for Dec. 11 in Nature Communications, Sami El-Boustani and Mriganka Sur of the Picower Institute for Learning and Memory hypothesize that a particular type of interneuron may influence responses in a context-dependent manner.

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*Arithmetic controls response*

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*Inhibitory neurons in the visual cortex use division and subtraction to control computations performed by their target cells. Several previous studies suggested that one of the well-defined classes of interneuron, parvalbumin-expressing (PV +) cells, regulates response gain via divisive inhibition, whereas the other major class, somatostatin-positive (SOM +) cells, controls response selectivity via subtractive inhibition.*

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*Divisive inhibition can occur during a range of functions including directed visual attention, orientation, multisensory integration, and value estimation. Subtractive inhibition is thought to sharpen neuronal selectivity, possibly increasing discrimination capability and therefore perhaps enhancing behavioral performance. Based on the findings of earlier research, these functions were thought to be native properties of these cell types, based on structure, connections, and biophysics.*

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*Innovative techniques yield new findings*

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*More recent studies, including an in-depth examination by El-Boustani and Sur, indicate that SOM + cells in particular are a key component of the underlying mechanisms that dictate functionality. In order to evoke different response dynamics in interneurons and investigate the nature of*

inhibition, the Picower neuroscientists employed "an innovative combination of novel visual stimuli, precisely-timed single-pulse optogenetic stimulation, and large-scale recording via two-photon calcium imaging of targeted neuronal responses in mice," explains Sur, the Newton Professor of Neuroscience and director of the Simons Center for the Social Brain. Using briefly flashed visual stimuli and short pulses rather than prolonged optogenetic activation, the researchers were able to define the response times of PV + and SOM + neurons compared with their target cells, as well as isolate the inhibitory effect of these two types of neuron.

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El-Boustani, a postdoctoral fellow in the Sur lab who led the study, was able to show that SOM + neurons can perform either divisive inhibition and regulate response gain or subtractive inhibition and control response selectivity. He found that when stimulation activates the SOM + cells at the same time as their target cells, as is the case when probed with large visual stimuli, they divide responses. When activation of the target cells occurs at a different time—sooner when they respond to small visual stimuli—the SOM + neurons subtract responses. "So neuronal functionality is dynamic; it is governed by firing coordination and the overlap of response timing in the circuits and their target cells," explains El-Boustani.

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The MIT scientists' ability to demonstrate dramatic and distinct response-dependent switching in the live brain suggests that interneuron functionality is not an immutable property of each cell type, but a consequence of more complex dynamics within cortical networks. Since cortical inhibitory neurons mediate not only information processing but also play a critical role in brain disorders like autism, schizophrenia, and epilepsy, this discovery contributes significant insights to enhance understanding of normal

*and abnormal brain functionality.*

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