



NEFAMI NEWSLETTER 6/09/08  
Please post this in your work place or shop  
Jim Shakallis News letter Editor

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Membership Meeting Invivo Corporation Wednesday  
June 25<sup>th</sup> 5:30P.M. At their offices. Refreshments  
will be served and a tour of the plant.

**Invivo Corp**

3545 SW 47th Ave  
Gainesville, FL 32608 [Map](#)  
(352) 336-0010  
Behind the Main post office in Gainesville



Invivo Corp has been one of the pioneers in development of MRI patient monitoring with a graphic wires that are non magnetic consequently not affected by the strong magnetic pull of a 7 ton super cooled magnet. Also developing body specific coils and devices for better resolution and diagnostic capability. Come stick with us for a truly magnetic meeting.

**Main offices**

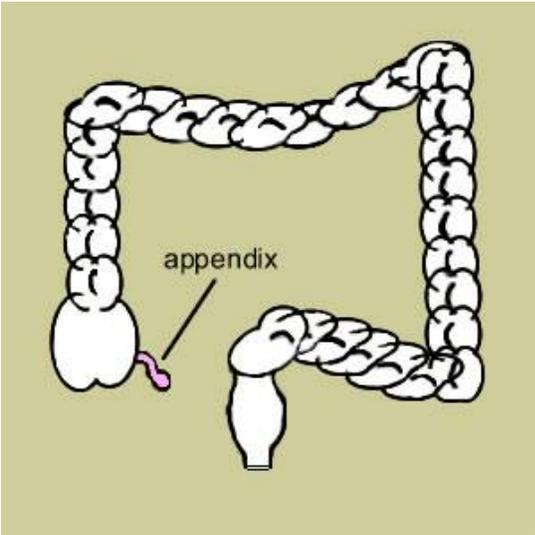
**12501 Research Parkway Orlando, FL 32826. (800) 331 - 3220 Email:  
[info@invivocorp.com](mailto:info@invivocorp.com)**

Check this web site for additional information.  
<http://health.howstuffworks.com/mri.htm>



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**WA SHINGTON (AP) --** Some scientists think they have figured out the real job of the troublesome and seemingly useless appendix: It produces and protects good germs for your gut. That's the theory from surgeons and immunologists at Duke University Medical School published online in a scientific journal this week.

For generations the appendix has been dismissed as superfluous. Doctors figured it had no function. Surgeons removed them routinely. People live fine without them. And when infected the appendix can turn deadly. It gets inflamed quickly and some people die if it isn't removed in time. Two years ago, 321,000 Americans were hospitalized with appendicitis according to the C.D.C. The function of the appendix seems related to the massive amount of bacteria populating the human digestive system, according to the study in the Journal of Theoretical Biology. There are more bacteria than human cells in the typical body. Most are good and help digest food. But sometimes the flora of bacteria in the intestines die or are purged. Diseases such as cholera or amoebic dysentery would clear the gut of useful bacteria. The appendix's job is to reboot the digestive system in that case. The appendix "acts as a good safe house for bacteria," said Duke surgery professor Bill Parker, a study co-author. Its location just below the normal one-way flow of food and germs in the large



intestine in a sort of gut cul-de-sac helps support the theory, he said. Also, the worm-shaped organ outgrowth acts like a bacteria factory, cultivating the good germs. If a person's gut flora dies, it can usually be repopulated easily with germs they pick up from other people, he said. But before dense populations in modern times and during epidemics of cholera that affected a whole region, it wasn't as easy to grow back that bacteria and the appendix came in handy. In less developed countries, where the appendix may be still useful, the rate of appendicitis is lower than in the U.S. Even though the appendix seems to have a function, people should still have them removed when they are inflamed because it could turn deadly, Parker said. About 300 to 400 Americans die of appendicitis each year, according to the CDC.

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Dear VAM users: Nefami is a registered user password is Nefami.

With support from Mr. and Mrs. Lybass and input from Dr. John Downs, we have developed an interactive model of the Alveolar Gas Equation at equilibrium and made it available free of charge at <http://vam.anest.ufl.edu/simulations/alveolargasequation.php>.

This interactive model uses dynamic plots to illustrate the alveolar gas equation at steady state. Users can adjust R (respiratory quotient), PACO<sub>2</sub> (alveolar partial pressure of carbon dioxide) and P<sub>atm</sub> (barometric pressure) by clicking on their symbols in the equation and dragging the sliders on the slider bars that subsequently appear below. The numerical values below each symbol in the alveolar gas equation update as a slider is dragged. Assuming that PAO<sub>2</sub> and arterial partial pressure of oxygen (PaO<sub>2</sub>) are similar, the oxyhemoglobin dissociation curve is used to correlate FiO<sub>2</sub> to SpO<sub>2</sub>. The border around the simulation becomes red when PAO<sub>2</sub> becomes negative.

Sem Lampotang  
Professor of Anesthesiology  
Center for Simulation, Advanced Learning and Technology  
University of Florida

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World statistics interesting web site. <http://www.chippynews.com/worldclock.htm>

#### **FAMOUS QUTOES**

Some people believe that holding on and hanging in there are signs of great strength. However, there are times when it takes much more strength to let go, Ann Landers

#### **CALEDAR OF EVENTS & UPCOMING MEEETINGS: 2008** Scheduled for the 3<sup>rd</sup> Wednesday of every month at 6 PM

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January 16<sup>th</sup> Officers meeting  
February 20<sup>th</sup> Rescheduled  
March 19<sup>th</sup> Zeiss Microscopes  
April 16<sup>th</sup> Nihon Kodan  
May 25<sup>th</sup> Invivo MRI  
June 20<sup>th</sup> Officers meeting  
July 16<sup>th</sup> TBA  
August 15<sup>th</sup>, Officers meeting  
September 17<sup>th</sup> TBA  
October 17<sup>th</sup> Officers meeting  
November 19<sup>th</sup> TBA  
December 19<sup>th</sup> Officers meeting

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