

# Biomedical Engineering

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Our lab is focused on tools for better imaging and treatment of disease. Studies include MRI, PET, and their fusion as applied to Parkinson's disease, breast cancer, and retinal degeneration. We are also developing neural network algorithms for image and signal processing with applications in visual, auditory and motor functions as assessed by evoked potentials in humans and single unit recordings in animals. Finally, we are exploring micro technology chip design for drug delivery in the brain.

### Recent Papers:

1. Anderson, M. and E. Micheli-Tzanakou Automated Auditory Stimulus Optimization Using Feedback from Fuzzy Clustered Neuronal Responses? IEEE Trans. on Information Technology (2002).
2. Uyeda, E., Wojnicki, P. and Micheli-Tzanakou E Visual Evoked Potential Study of Attention? SPIE (2002).
3. Wojnicki, P., Uyeda, E. and Micheli-Tzanakou E Quantifying the Effect of Colorization On Mammogram Images? SPIE (2002). (Paper Prize, 2nd place).

For more information, see <http://www.ieee.org/membership/innovators/>  
<http://ci.rutgers.edu/>



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BME graduate student and IGERT

fellow, **Jeffrey Barminko**, has been awarded a predoctoral fellowship from the New Jersey Commission on Spinal Cord Research for his project entitled 擱ncapsulated MSCs...

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