IFATS
International Federation for Adipose Therapeutics and Science

Laboratory Listing Form

Primary Investigator Name (include degrees): Bruce A Bunnell, PhD

Primary Investigator's Affiliations: Center for Stem Cell Research and Regenerative Medicine; Department of Pharmacology, Tulane University School of Medicine; Division of Regenerative Medicine Tulane National Primate Research Center

Laboratory, Center or Group Name: Bunnell Lab, Tulane Center for Stem Cell Research and Regenerative Medicine

Type of Organization:

- X Academia
- o Clinic/Hospital
- o Industry
- o Small Start-up

If academic organization, please provide the name of University and Department:
See above

Type of Work:

- X Basic
- o Clinical
- X Translational Pre-Clinical

Primary focus, research or clinical activity (250 words):
The Bunnell lab has an extensive background working on the biologic properties of adipose stem cells. Dr. Bunnell researches adult mesenchymal stem cells from adipose tissue and the bone marrow of humans, rhesus macaques and in rodent models. Dr. Bunnell's research program investigates He has also assessed the effects of biological aging and obesity status on the properties of adult stem cells and has described numerous molecular alterations that occur as a result. For therapeutic intervention, he has focused on the development of strategies for the treatment of inherited and acquired genetic diseases. His research program is focused on the development of novel stem cell-based strategies to correct an inherited genetic lysosomal storage disease, Krabbe's disease. He is also investigating the application of stem cells as potential therapies for Multiple Sclerosis and other autoimmune diseases, bone defects, wound repair, and aging. The Bunnell lab also focuses on the impact of aging, obesity and disease on the biology and functionality adipose stem cells.

If Research, what animal models are established by your group:

1. Experimental Autoimmune Encephalomyelitis (EAE) mouse model of human Multiple Sclerosis
2. Bone Models in Mice: Cranial Defect Model and Segmental Defect Model
3. Wound Repair Model (Pressure Ulcer Injury) and Full Thickness Skin Injury Model

If Research, what techniques are established by your group (list 3-5):

1. flow cytometry
2. transcriptomics
3. metabolomics
4. PCR/RT-PCR
5. immunohistochemistry

Key words that best describe the Research or Clinical work conducted (up to ten):

1. mesenchymal stem cells
2. adipose
3. bone marrow
4. inflammation
5. wound
6. obesity
7. aging
8. breast cancer
9. tissue engineering
10. matrix

Website:
http://medicine.tulane.edu/centers-institutes/stem-cell-research-regenerative-medicine

Link(s) to your publications (NCBI bibliography if possible):
http://www.ncbi.nlm.nih.gov/sites/myncbi/bruce.bunnell.1/bibliography/41141207/public/?sort=date&direction=ascending

CONTACT INFORMATION

Primary Investigator or Administrative Assistant: Bruce A Bunnell or Krystal Brown (Admin)

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