



## CANCER PREVENTION & RESEARCH INSTITUTE OF TEXAS

Award ID:  
DP150005

Project Title:  
Wireless neuromodulation treatment for bladder dysfunction secondary to cancer

Award Mechanism:  
New Company Product Development Award

Principal Investigator:  
Khodaparast, Navid

Entity:  
Nexeon MedSystems, Inc

### Lay Summary:

Surgical resection and radiotherapy are used frequently in the treatment of prostate, cervical, and rectal cancers. While they can be life-saving therapies, these procedures often burden cancer survivors with secondary conditions such as overactive bladder (OAB). For some cancer patients and survivors OAB symptoms are an understood outcome of life-saving cancer therapy, while others may view the risk of urinary dysfunction as a reason to forego or substitute potentially inferior forms of treatment. There is a pressing need for treating OAB in cancer patients and survivors; however, existing treatment protocols may not be suitable for patients developing symptoms secondary to cancer or treatments directed at these malignancies.

Rosellini Scientific, a medical technology company headquartered in Dallas, is developing a small, implantable neurostimulation device to restore bladder function and improve quality of life for patients suffering from OAB as a result of their cancer therapy. The nUro Wireless Neurostimulation system combines the latest in wireless implantable technology with clinically proven efficacy of neurostimulation to offer flexible, convenient, and cost-effective treatment. Rosellini Scientific will foster this technology in collaboration with Dr. Gary Lemack from UT Southwestern Medical Center and through the UT-Dallas incubator program. The current proposal will culminate in clinical data used to support regulatory approval of the nUro therapy.