illuminator

his time of year, we are reminded of how grateful we are for the potential we hold to change the world through unparalleled research and innovative teaching and learning, all thanks to your support.

May this holiday season bring joy, hope, peace and prosperity to you and your family.

Stephanie G. Adams, Ph.D.

Dean, Batten College of Engineering and Technology

Cold Qlasma Uechnology Neets Nechanobiology

Working across departments to find medical breakthroughs





Venkat Maruthamuthu

By Keith Pierce

n the world of biomedical research. n the world of pionieulcal research, collaboration is key. When that research "Cell movement is basically a mechanical "Cell movement is basically "Cell is combined with educating the next generation of scientists and engineers, such collaboration is even more important. Thats why when Electrical & Computer Engineering professor, Mounir and proliferate or multiply' Laroussi, Ph.D., known worldwide for his cold plasma research, needed a better understanding of how plasma affects cell migration such as during metastasis, he turned to cell mechanics expert, Venkat Maruthamuthu, Ph.D., an assistant professor in Mechanical and Aerospace EngineeringTogether, they are discovering new possibilities in the ght against cancer.

According to Maruthamuthu, the two initially met over lunch and began discussing their work. Before they knew it, they discovered a synergy

between Laroussis plasma research and There was one other motivating factor Maruthamuthu's study of cell movement.

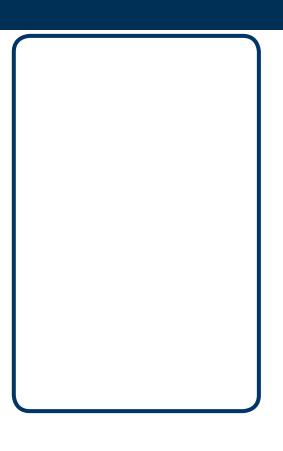
process' said Maruthamuthu"I study multiple aspects of cells, including how they move, stick to their surroundings

For Laroussi, the conversation generated Jmmediate FYDJUFNFOU BCPVU UIF QPTTJCJMJUJFT.

"Before I started working with Venkat, all of our cancer-related work was focused on killing cancer cells. What was missing, however, was how plasma might affect the proliferation and migration of normal cells," said Laroussi. "Venkat is an expert on how cells attach to each other and to surfaces, so that made him the perfect collaborator to help answer that question."



Graduate student and research assistant, Hamid Razavi, (left), Electrical & Computer Engineering professor, Mounir Laroussi, Ph.D., (center) and Mechanical and Aerospace Engineering professor, Venkat Maruthamuthu, gather around the Pyrex chamber, where the plasma pencil ignites a large volume of plasma.



Appearing relaxed in a comfortable chair "When most people ask me, 'where are as she addressed the audience of faculty, you from' and I tell them Africa or Nigeria, students, community leaders and guests, the conversation normally ends there," American anthropologist and former Agho said while introducing Cole. "But director of the Smithsonian National She [Cole] asked me where I was from 'in' Museum of African Art, Johnnetta B. Cole, Ph.D., combined inspiration, passion and humor while delivering a message of diversity and inclusion at Old Dominion University.

After a formal reception in Broderick Dining Commons, rather than a standard speech, Cole sat with Stephanie Adams, dean of the Batten College of Engineering and Technology, for a casual, "Oprah-style" conversation. Among several key points, Cole stressed the importance of understanding the role bias plays in impeding the growth and success of women and people of color – particularly in math and science elds.

"When we understand that bias, mitigate against it and begin to bring increasing numbers of women and people of color into engineering, we are doing one of the most important things that can be done to contribute to greater diversity," Cole said.

Earlier that day, following a meeting with the Batten College of Engineering and Technology leadership team, Cole met with ODU provost and vice president for academic a airs, Austin Agho, who shared an unexpected connection with the legendary educator.