

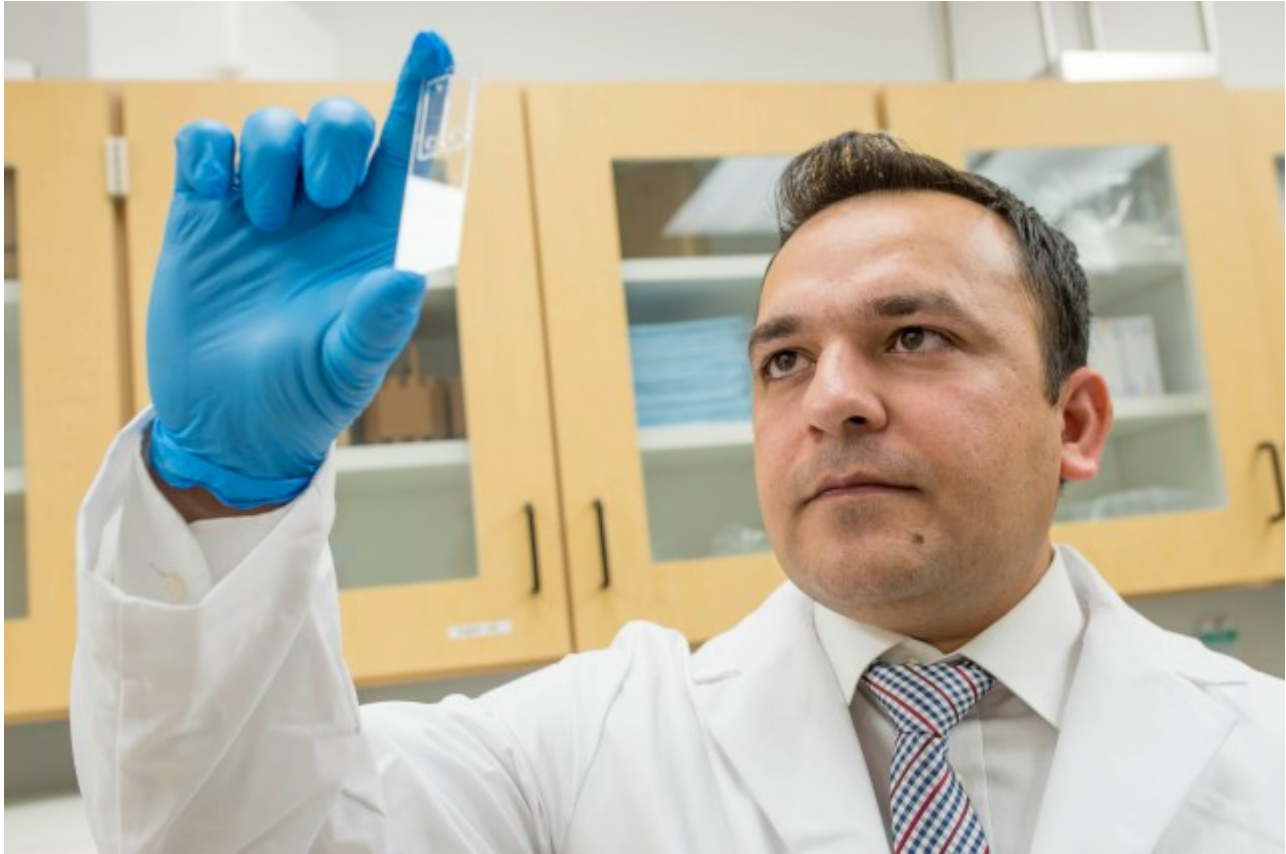


This post originally appeared on the Humanity in Science Award website.

Visit www.humanityinscienceaward.com to learn more.

Congratulations, Waseem Asghar!

Florida Atlantic University Assistant Professor Waseem Asghar has identified a **new paper and flexible material-based diagnostic biosensing platform** that could be used to remotely detect and determine treatment options for HIV, E. coli, Staphylococcus aureas and other pathogens.



“According to the World Health Organization (WHO), more than 35 million people are living with HIV and more than 1.5 million died of AIDS. HIV has become one of the most devastating pathogens in human history causing 25 million deaths and it remains the leading cause of death in Africa.

More than 95 percent of HIV infections are in developing countries, two-thirds of them in sub-Saharan Africa, where 28 million people are living with HIV. Although antiretroviral therapy (ART) is effective in saving AIDS patients’ lives, the implementation of ART worldwide has been drastically hampered by the lack of treatment

“
Y
O
U
A
R



monitoring diagnostics and disease management. e

either affected or infected with
HIV/AIDS” by Jon Rawlinson / CC by 2.0



Using a
c
drop of
h
blood from
a
fingerpic
k,
[Asghar's]
novel
biosensing
platform
provides
clinically
relevant
specificity,
sensitivity
and
detection
of
pathogens
from
whole
blood and

plasma. U
sing paper
and
flexible
substrates
as
materials
for
biosensors
, Asghar
and his
collaborat
ors
identified
a new
rapid and
cost-
effective
way to
diagnose
diseases
and
monitor
treatment
in point-of-

care
settings.”

Find out how **you** could be the next Humanity in Science Award winner [here](#).

Related resources:

- [Humanity in Science: Optimizing Diagnostics of Rare Diseases in Newborns](#)
- [Humanity in Science: Accelerating Detection in Early Stages of Heart Attacks](#)
- [Humanity in Science: Combating Counterfeit with Capillary Electrophoresis](#)
- [Humanity in Science Award Winners Announced by Phenomenex and The Analytical Scientist](#)

Share with friends and coworkers:

- [Click to email a link to a friend \(Opens in new window\)](#)
- [Click to share on Twitter \(Opens in new window\)](#)
- [Click to share on Facebook \(Opens in new window\)](#)
- [Click to share on Pinterest \(Opens in new window\)](#)
- [Click to share on LinkedIn \(Opens in new window\)](#)
- [Click to share on Tumblr \(Opens in new window\)](#)
- [Click to share on Reddit \(Opens in new window\)](#)