

# Researchers report novel method to quickly make therapeutic proteins from human blood

June 22 2018

---

UMBC researchers report novel method to quickly make therapeutic proteins from human blood

Personalized [medicine](#) has incredible potential, but current approaches are still too expensive and time-consuming to have a big impact.

A new paper in *Scientific Reports* looks at how to extract cellular protein synthesis machinery from human blood, and, by adding recombinant DNA to the extract, to produce [therapeutic proteins](#) within two hours.

Govind Rao, director of the Center for Advanced Sensor Technology, and professor of chemical, biochemical, and [environmental engineering](#) at UMBC, and one of the authors of the paper, describes this research as a milestone in personalized medicine. He notes that his team's goal is to "allow anyone's blood to be used to make medicines, treatments, and vaccines specifically for them."

**More information:** David Burgenson et al. Rapid recombinant protein expression in cell-free extracts from human blood, *Scientific Reports* (2018). [DOI: 10.1038/s41598-018-27846-8](https://doi.org/10.1038/s41598-018-27846-8)

Provided by University of Maryland Baltimore County

Citation: Researchers report novel method to quickly make therapeutic proteins from human

blood (2018, June 22) retrieved 26 April 2024 from

<https://medicalxpress.com/news/2018-06-method-quickly-therapeutic-proteins-human.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.