COVID-19-Diagnosing Face Mask

WHY
The new device to diagnose COVID-19 using lateral flow technology has been developed at the Harvard T.H. Chan School of Public Health and is the Harvard Radcliffe Institute for Advanced Study.

WHAT
The button-activated mask gives results to the wearer within 90 minutes and can change the part of the mRNA that is being read and is as accurate as standard PCR tests in detecting COVID-19.

SIGNIFICANCE
A wearable biosensor that can change the part of the mRNA that is being read and is as accurate as standard PCR tests in detecting COVID-19.

HuBMAP (the Human BioMolecular Atlas Program)

WHAT
A diverse effort to create an open-access, high-resolution, 3D molecular guide to the healthy human body.

WHY
The maps and atlas resulting from HuBMAP will guide to the healthy human body. An audacious effort to create an open-access, high-resolution, 3D molecular guide to the healthy human body.

mRNA Vaccines

WHAT
Unlike traditional vaccines, certain mRNA vaccines are based on a specific version of the virus that are present in a person, withhold, or inactivated and replicated in the body of a person to produce antibodies that match that virus’ proteins.

WHY
Our team of biologists, chemists, and engineers are trying for a long time to convert an mRNA vaccine into antibodies that can protect against, and indirectly from, many other dangerous viruses, bacteria, toxins and chemical agents.

SIGNIFICANCE
The mRNA vaccines are based on a specific version of the virus that are present in a person, withheld, or inactivated and replicated in the body of a person to produce antibodies that match that virus’ proteins.

Drew Weissman, Katalin Karikó and Kizzmekia Corbett.

Many people contributed to the development of mRNA vaccines; three who stand out are Drew Weissman, Katalin Karikó and Kizzmekia Corbett.

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America’s investment in biomedical research through the National Institutes of Health makes amazing things possible.

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