

The PATH Center of Excellence for Microarray Patch Technology

Advancing the microarray patch (MAP) delivery technology platform to meet high-priority global health needs

PATH's Center of Excellence for Microarray Patch Technology is a four year initiative to mobilize efforts to accelerate the development of MAPs for critical vaccines, essential medicines, and diagnostics, and ensure that the MAP delivery technology platform can maximize its impact by meeting global public health needs.



Facing challenges

The MAP delivery technology platform has the potential to foster untold gains in access, efficacy, and adherence to vaccines and essential medicines and to reduce burdens on strained health systems. However, pioneering the MAP delivery technology platform for use in low-resource settings is challenged by:

- Unknown market potential
- Manufacturing hurdles
- Undefined regulatory pathway
- Reduced opportunity for platform-wide efficiencies

Finding solutions

For MAPs to address high-priority needs, demonstrate high probability of technical and regulatory success, and foster a high likelihood of commercial viability, the PATH Center of Excellence and its Scientific Advisory Group will provide leadership, expertise, and guidance in:

- Identifying priority global public health applications for MAPs
- Generating target product profiles
- Supporting MAP product development
- Reviewing manufacturing technologies
- Conducting human factors engineering and usability analyses
- Convening experts to define regulatory requirements
- Engaging developers, industry, and global stakeholders to disseminate information

Forging the future

The MAP delivery technology platform's potential manifold advantages are improvements in vaccine and drug thermostability, enhanced immunogenicity, ease of use, and improved safety, which could enable:

- Increased coverage and equity
- Dose-sparing
- Reduced burden on health systems
- Improved adherence to drug regimens

Together with the community of MAP developers, industry, and global health stakeholders, the PATH Center of Excellence aims to forge a future for MAPs that maximizes the potential of this innovative delivery technology platform.

Please join the discussion and help realize the future of MAPs with the PATH Center of Excellence for Microarray Patch Technology.



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