

Photos of the Day: Diagnostic Diapers

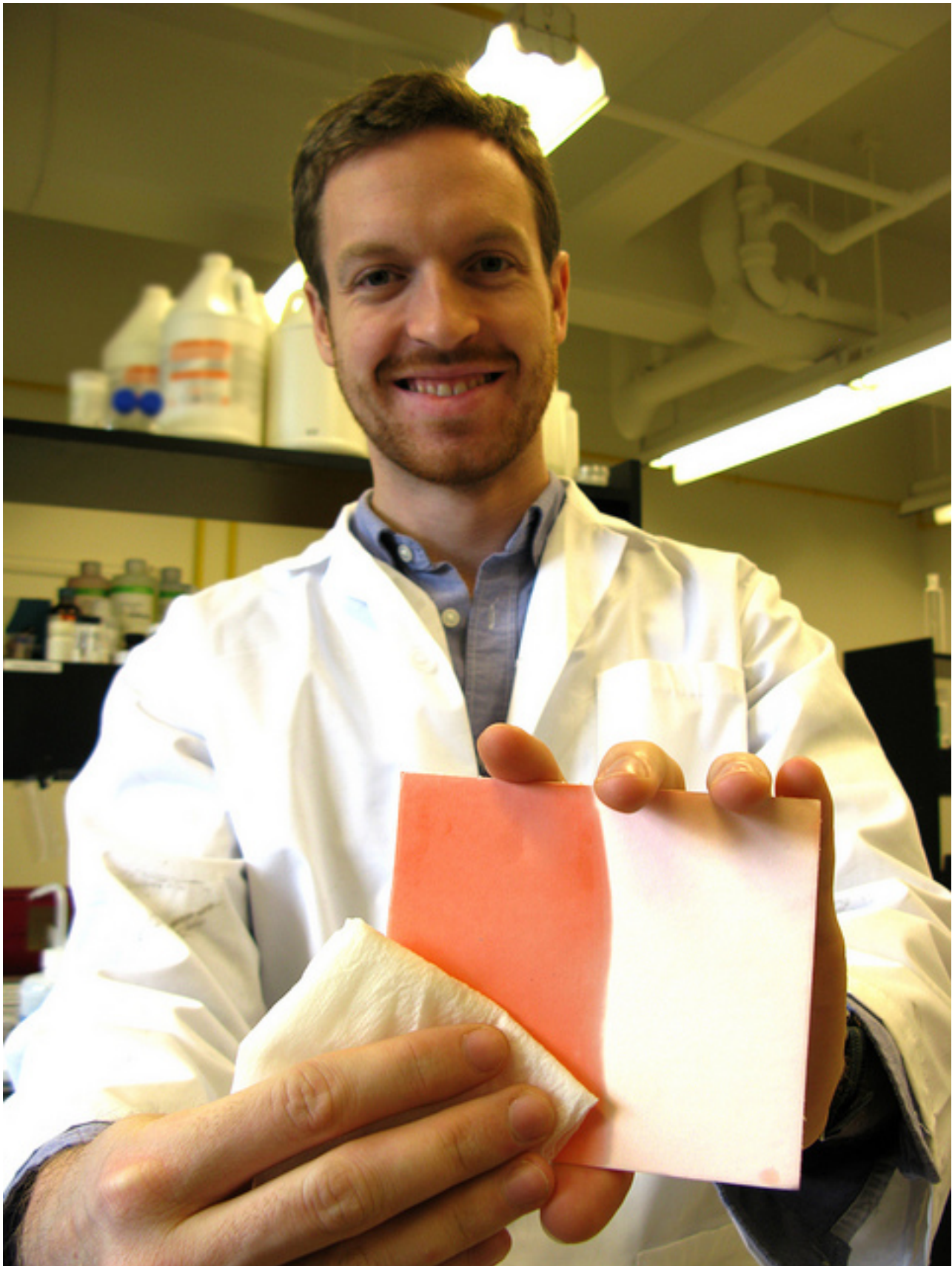
Grand Challenges Canada



Rotavirus is the most common cause of severe diarrhea that annually kills 500,000 children under age five and hospitalizes millions more. India's Achira Labs is creating a fabric-based chip that, when integrated into disposable diapers, will help detect and signal the infectious virus quickly and safely.

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Published on Medical Design Technology (<http://www.mdtmag.com>)



WHO estimates that 10% to 30% of all patients in developing country healthcare facilities acquire an infection. An innovative sticker for hospital surfaces developed by Lunanos Inc. changes color when a cleaner is applied and fades color after a predetermined period of time, helping staff track and ensure cleanliness of equipment and other frequently touched surfaces.

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Being pioneered at McMaster University with international collaborators, a simple sputum test will detect infectious and allergic bronchitis in adults and children, reducing mis-diagnosis in developing countries and saving resources: time, steroids, antibiotics.

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A 2012 UN study showed 25% of birth facilities had access to infant resuscitation equipment; 11% had attendants capable of using it. India's Windmill Health Technologies has created a novel integrated resuscitation solution, reduces air leakage, creates more consistent air pressure and volume, lessening injuries and improving survival.

[Read: 83 Global Health Innovations Receive Grand Challenges Canada Funding](#) [1]

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