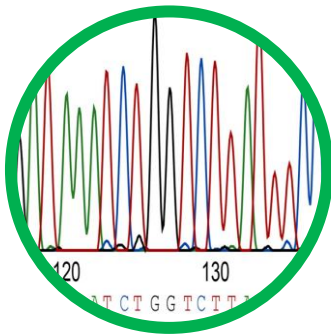


Hot topics in Pediatric Infectious Diseases



รศ พญ ธันยวีร์ ภูธนกิจ

สาขาวิชาโรคติดเชื้อเด็ก ภาควิชากุมารเวชศาสตร์

คณะแพทยศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย

Ped ID CHULA 19 พฤษภาคม 2561



Save the Date

His Royal Highness Prince Henry of Wales

*Ms. ...
will marry*

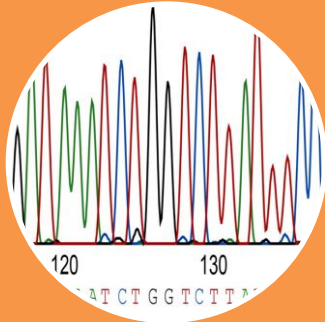


H



Harry ♥ Meghan

Outline



Diagnosis

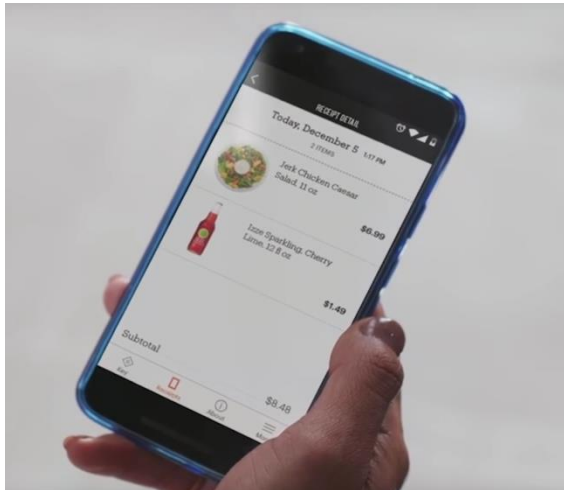
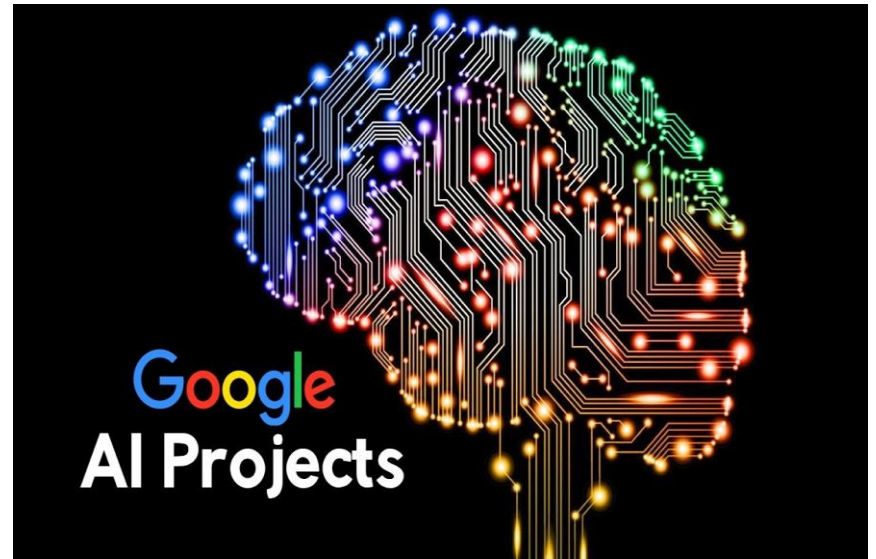


Treatment



Prevention





Point of Care testing (POC)

Rapid Ag/ Ab detection

Influenza



Dengue



Rotavirus
Adenovirus



Automated PCR

Cepheid GeneXpert

The GeneXpert System is a 1 to 4-site, random access instrument integrating real-time amplification and detection features seen in the SmartCycler System, but delivering results from unprocessed samples in less than 30 minutes.

The internal module is the common technology link between the SmartCycler and GeneXpert, performing real-time amplification and detection.

The GeneXpert automates sample preparation, integrating the complex steps of DNA extraction in the microfluidic cartridges.

Processing chambers—contain reagents, filters, and capture technologies necessary to extract, purify, and amplify target DNA.

Optical windows—enable real time four-color detection.

Reaction sub-chamber enables very rapid thermal cycling.

Valves—transfer fluid from chamber to chamber; may contain DNA lysis and filtration components.

86

Tuberculosis

STD: *C. trachomatis*, *N. gonorrhoeae*