



Advance Diagnostic Tests in Pediatrics ID

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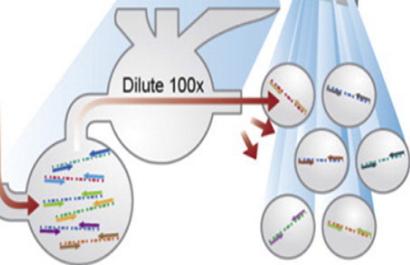
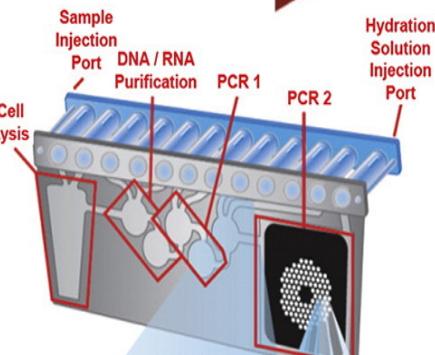
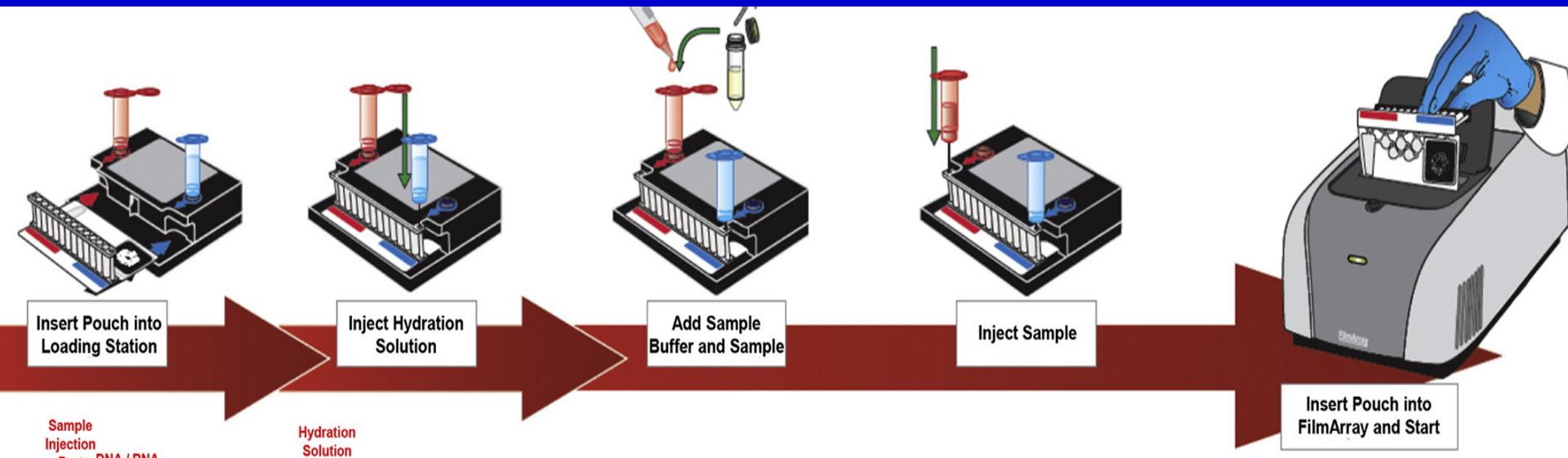
หน่วยโรคติดเชื้อ ภาควิชาการเวชศาสตร์

คณะแพทยศาสตร์ มหาวิทยาลัยธรรมศาสตร์

OUTLINE

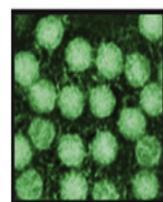
- Multiplex PCR
 - Respiratory system
 - Gastrointestinal system
 - Central nervous system
- Microarray
- Mass spectrometry

Multiplex PCR



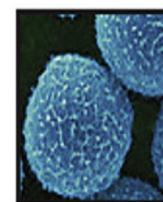
Bacteria

Escherichia coli
Haemophilus influenzae
Listeria monocytogenes
Neisseria meningitidis
Pseudomonas aeruginosa
Staphylococcus aureus
Streptococcus agalactiae
Streptococcus pneumoniae



Viruses

Cytomegalovirus (CMV)
Enterovirus
Epstein-Barr virus (EBV)
Herpes Simplex virus 1 (HSV1)
Herpes Simplex virus 2 (HSV2)
Parechovirus (HPeV)
Varicella-zoster virus (VZV)



Fungus

Cryptococcus neoformans/gattii

Multiplex PCR



Multiplex PCR

- **Multiplexed Molecular Diagnostics for RS, GI and CNS infections.**
 - : signs and symptoms of these syndromes are often not pathogen specific and the infectious differential diagnosis is broad.
 - : making a microbiologic diagnosis required a combination of microscopy, antigen tests, culture, and pathogen-specific PCR assays