

## **ABL DIAGNOSTICS**

INTRODUCING THE DEEPCHEK® HPV MESSENGER RNA GENOTYPING KIT

ISIN code : FR001400AHX6 / ABLD

For research use only

## TECHNOLOGY DEVELOPED BY INSTITUT PASTEUR



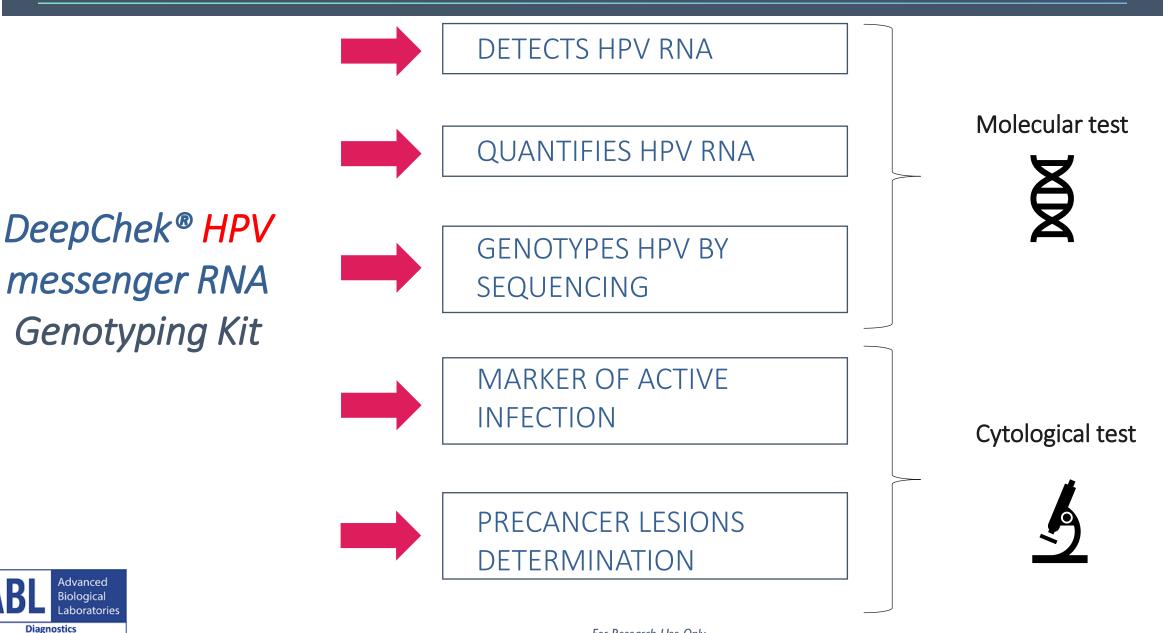


HPV RNA-SEQ: a novel and unique molecular screening test that allows detection of pre-cancerous lesions of the cervix from cervical samples

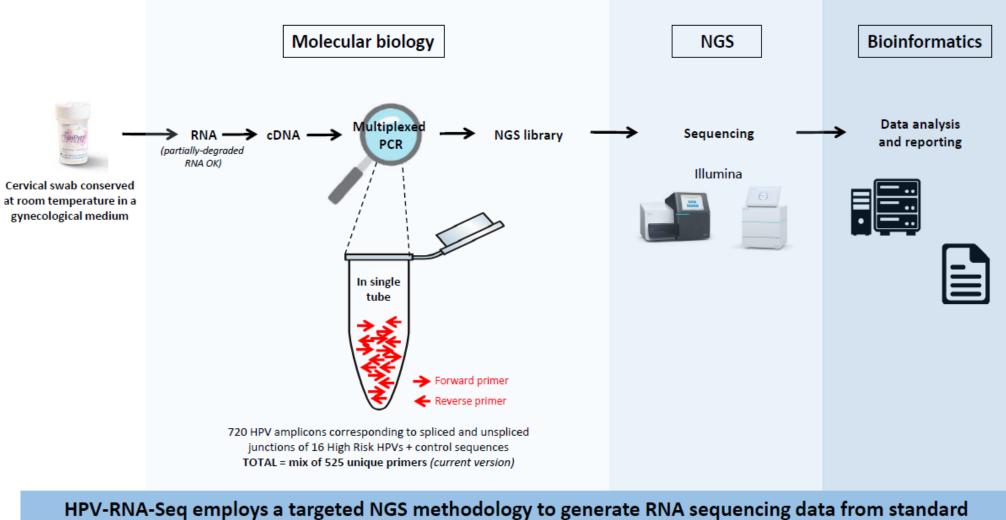


## **5 PRODUCTS IN ONE**





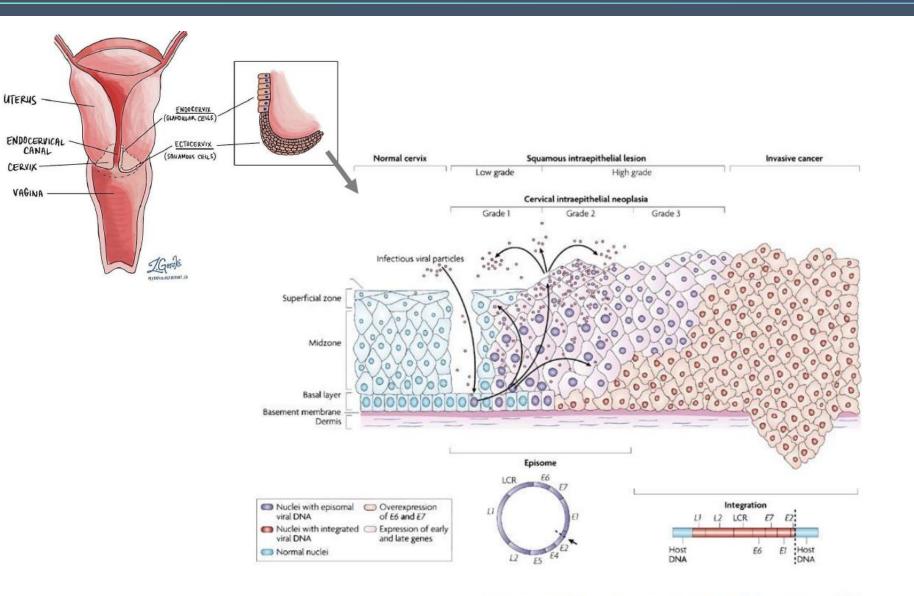
## **TEST IMPLEMENTATION**





cervical swabs.

## HPV Infection and Cervical Cancer Progression

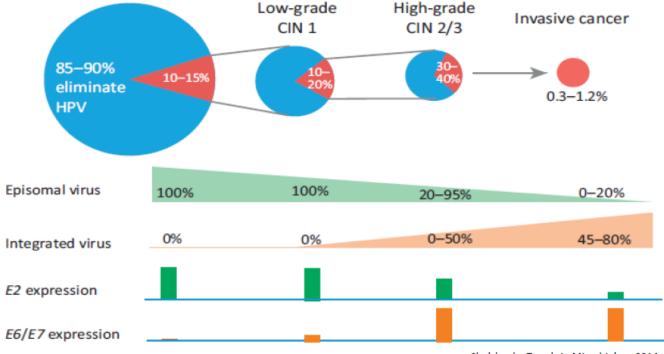




Woodman et al. Nature Reviews Cancer 7, 11–22 (January 2007) Nature Reviews Cancer

## HPV Infection and Cervical Cancer Progression





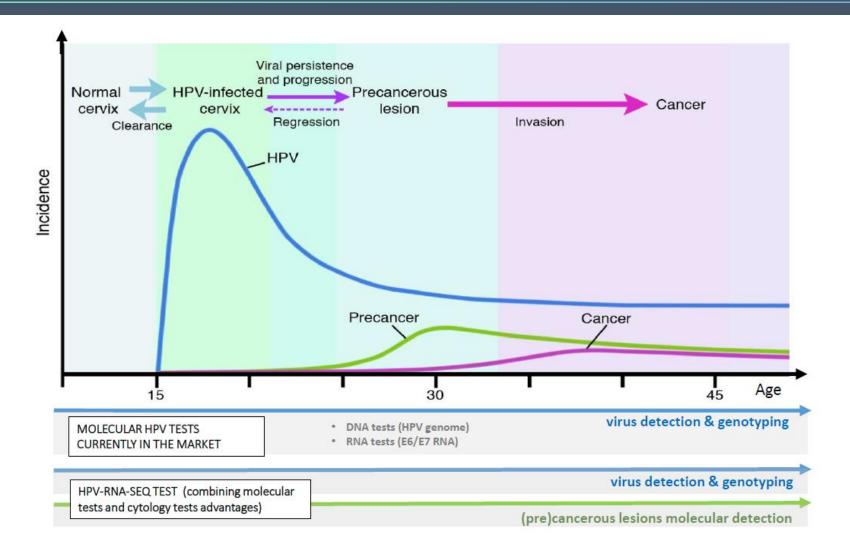
Shulzhenko Trends In Microbiology 2014

Gene expression balance could serve as a molecular marker for different stages of HPV infection, with E6 and E7 genes associated with the cancerous state.



## HPV Infection and Cervical Cancer Progression





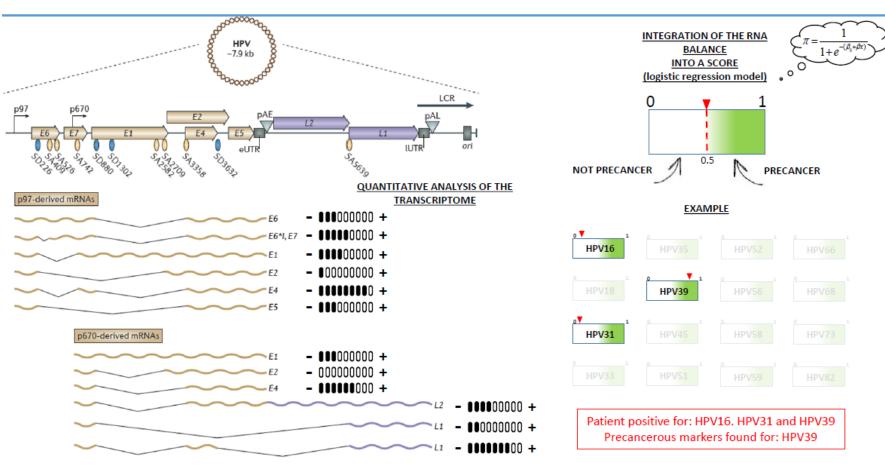


HPV-RNA-Seq combines the advantages of molecular HPV tests and cytological tests: HPV detection & genotyping + precancerous lesion molecular detection

## HPV-RNA-Seq

# 

### From data to interpretation : an RNA balance into a score



Advanced Biological Laboratories HPV-RNA-Seq detects a specific set of HPV transcripts quantitatively and combines this data into a logistic regression score that predicts the presence of lesions in a sample.

## HPV-RNA-Seq

### Gynie: the HPV-RNA-Seq software

### Results by patient

Сор	y CSV Excel	PDF	Print Show 1	l0 v entries	1			Search:	
	SampleName	Status	prediction 🕴	nb_HSK_genes 🗘	HPV_detected	HPV_covered	HPV_Not_HSIL 0	HPV_HSIL	max_score 🕴
1	Cytics- C6-01_S1_001	Multi- infected	HSIL	7	16,73,56	16		16	0.911968796519149
2	Cytics- C6-04_S4_001	Multi- infected	HSIL	13	16,18	16		16	0.699049010869685
3	Cytics- C6-06_S6_001	Mono- infected	HSIL	12	16	16		16	0.534739130322608
4	Cytics- C6-11_511_001	Mono- infected	HSIL	23	16	16		16	0.559753368417216
5	Cytics- C6-13_S13_001	Multi- infected	HSIL	15	68,16,73	73		73	0.55603752426824
6	Cytics- C6-21_S21_001	Multi- infected	HSIL	13	16,31	16		16	0.633262497226744
7	Cytics- C6-22_S22_001	Multi- infected	HSIL	10	16,73,31,59	16		16	0.723455266706626
8	Cytics- C6-24_S24_001	Multi- infected	HSIL	5	16,52,18	16		16	0.67009129470943
9	Cytics- C6-29_S29_001	Multi- infected	HSIL	16	16,73,18,59	73		73	0.563945414032286
10	Cytics- C6-30_\$30_001	Multi- infected	HSIL	14	16,18,31	16		16	0.825781293019552

HPV detection &

Lesion prediction





## **THANKYOU!**

Any question? www.abldiagnostics.com contact@abldiagnostics.com



