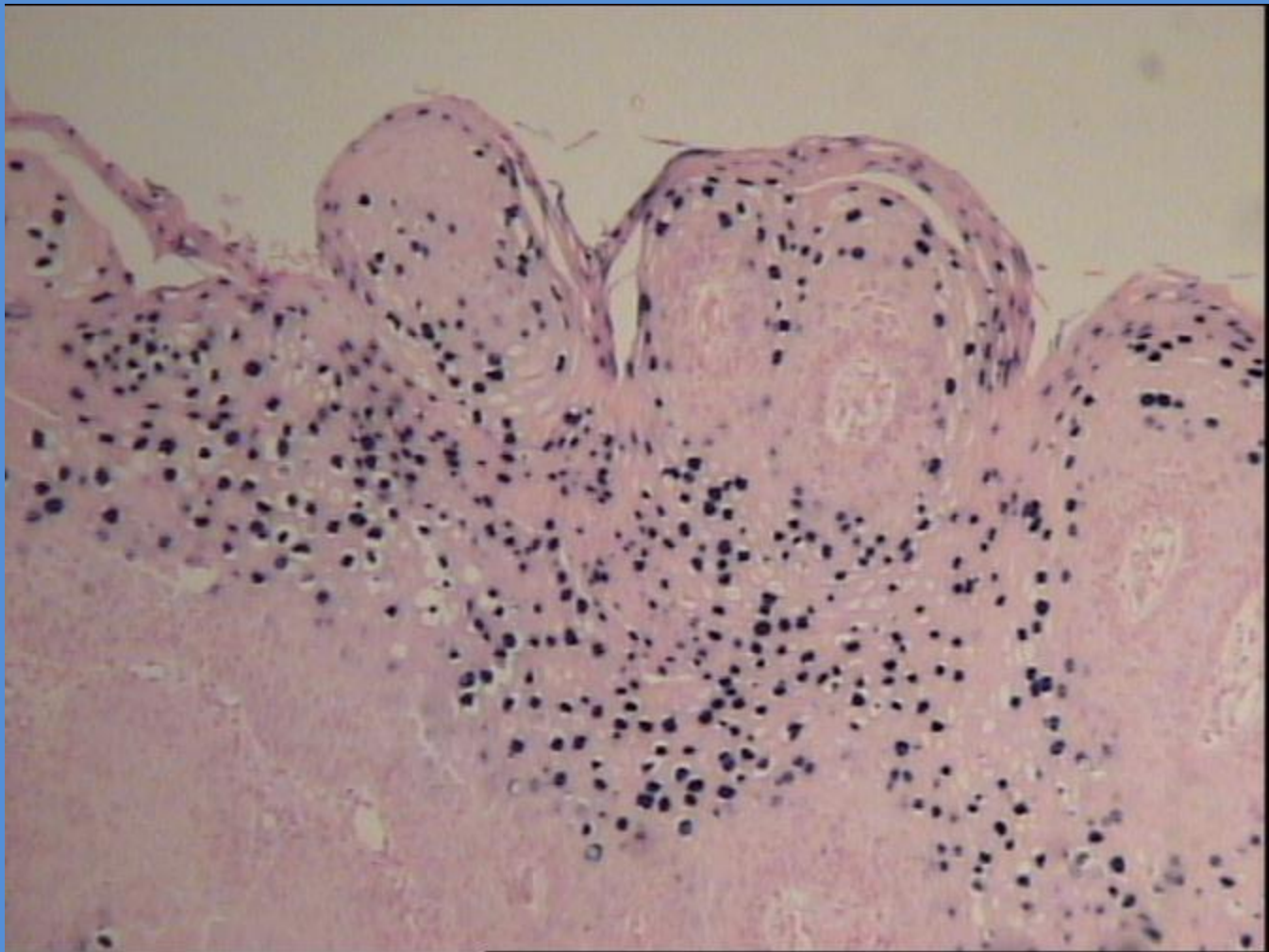
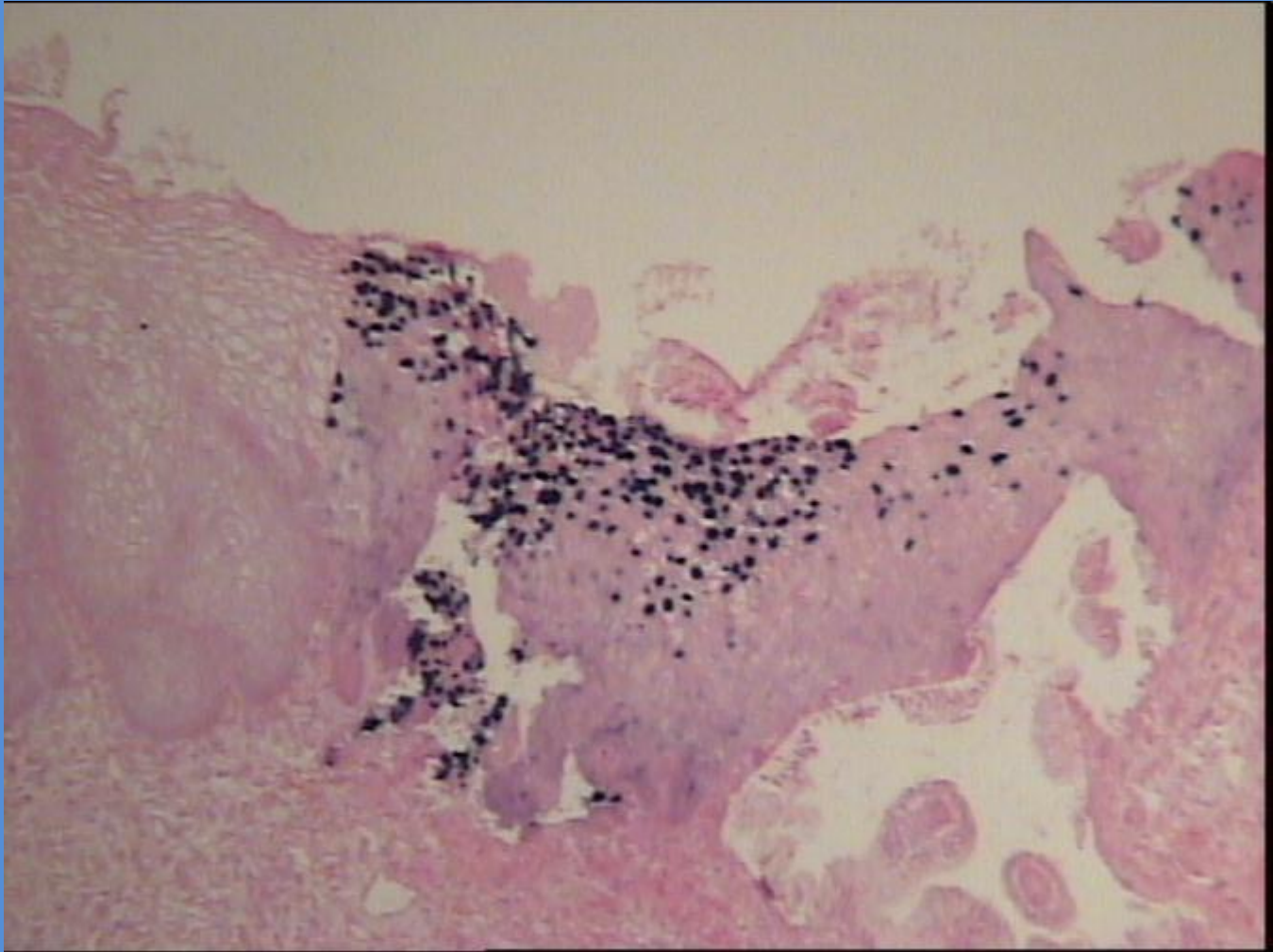


# Tecnica di ibridazione in situ

- Denaturazione del DNA virale presente in sezioni di tessuto provenienti da biopsie cervicali
- Ibridazione con sonde DNA di virus a basso ed alto rischio marcate con Biotina
- Rilevazione con substrato colorimetrico (Nitroblue tetrazolium)
- Lettura al microscopio ottico





# Diagnosi di infezione da HPV

- ibridazione in fase liquida e cattura dell'ibrido su supporto solido:



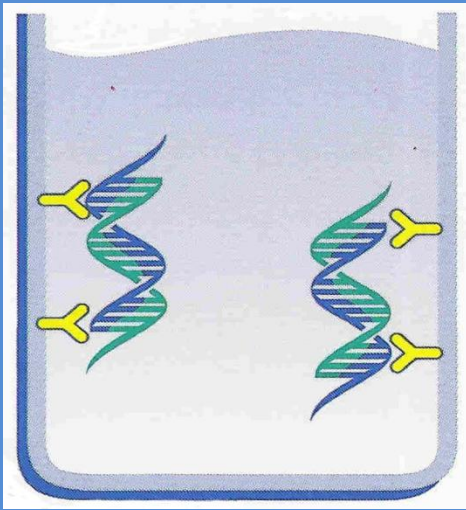
1. Denaturazione degli acidi nucleici



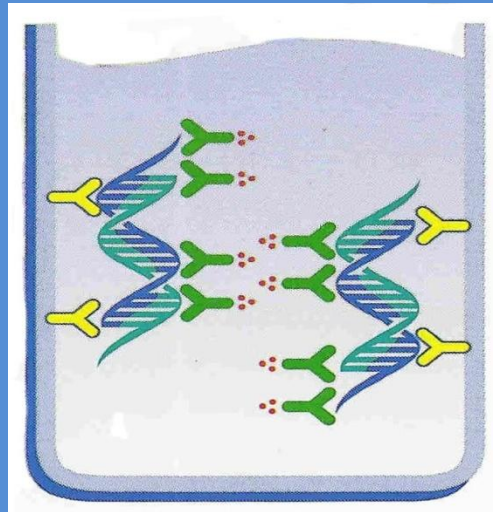
2. Ibridazione del DNA con sonde di RNA



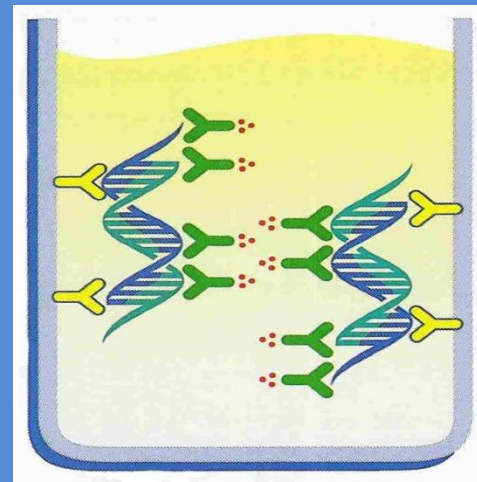
3. Cattura degli ibridi RNA:DNA in fase solida ( micropiastra )



4. Reazione degli ibridi catturati con anticorpi coniugati multipli



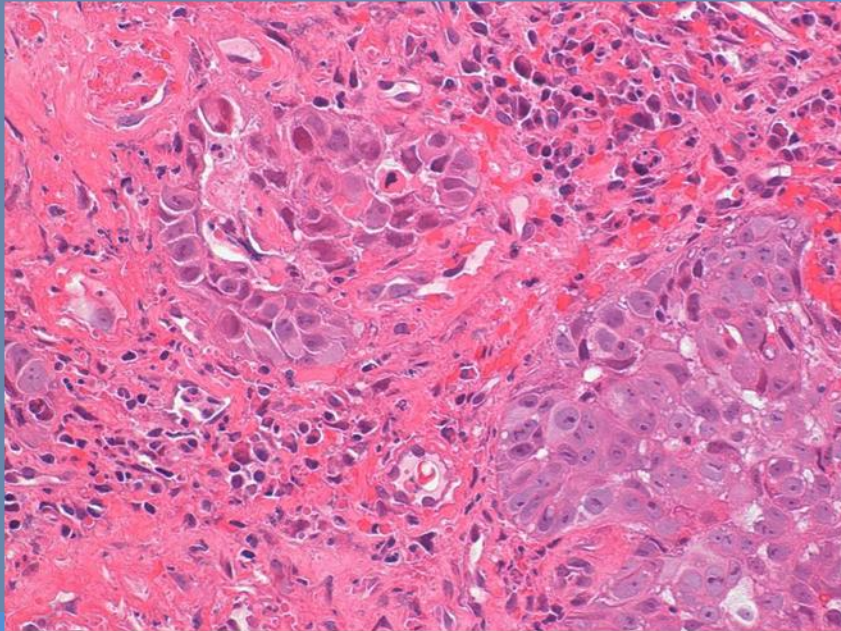
5. Misurazione del segnale chemiluminescente



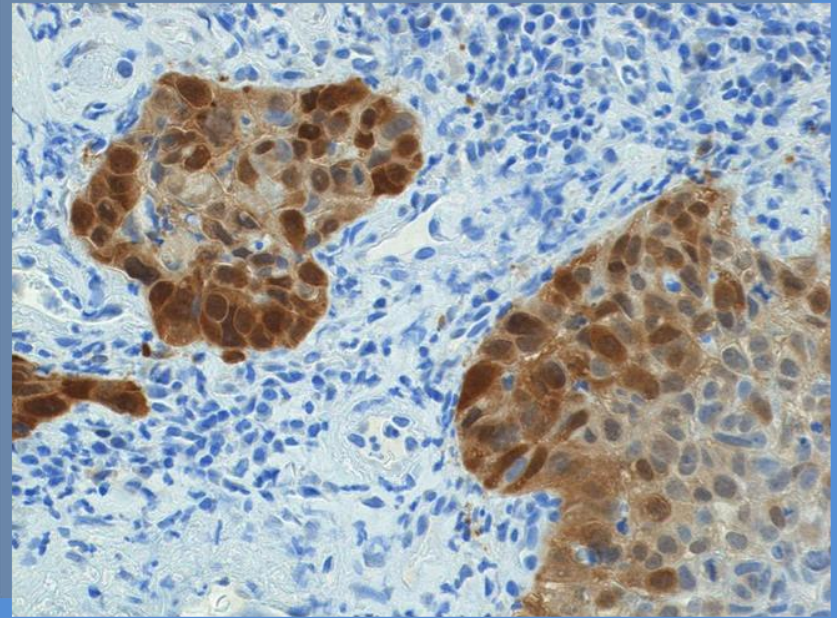
5

	1	2	3	4	5	6	7	8	9	10	11	12
A	ID RLU Ratio Result NC 31	04001 33 0.11 --	04009 31 0.11 --				NC 41	04001 45 0.14 --	04009 95 0.31 --			
B	ID RLU Ratio Result NC 31	04002 141 0.50 --	04010 27 0.09 --				NC 63	04002 645353 2115.91 High Risk	04010 59 0.19 --			
C	ID RLU Ratio Result NC 33	04003 47 0.16 --	04011 34175 123.07 Low Risk				NC 47	04003 81 0.26 --	04011 219433 719.45 High Risk			
D	ID RLU Ratio Result LRC 267	04004 35 0.12 --	04012 49 0.17 --				HRC 277	04004 96037 314.87 High Risk	04012 93 0.30 --			
E	ID RLU Ratio Result LRC 293	04005 30 0.10 --	04013 35 0.12 --				HRC 319	04005 57 0.18 --	04013 51 0.16 --			
F	ID RLU Ratio Result LRC 273	04006 30 0.10 --	04014 45 0.16 --				HRC 319	04006 55 0.18 --	04014 53 0.17 --			
G	ID RLU Ratio Result QC LR 1 1057 3.80 Valid	04007 37 0.13 --	04015 31 0.11 --				QC HR 1 49 0.16 Valid	04007 51 0.16 --	04015 59 0.19 --			
H	ID RLU Ratio Result QC LR2 31 0.11 Valid	04008 47 0.16 --					QC HR 2 5325 17.45 Invalid	04008 332423 1089.91 High Risk				





40x magn. H&E



40x magn. CINtec Histology p16

# Incidence and Diagnosis of H&N

## H&N (in Females)

Country	Number, Incidence	Rate, Incidence	Number, Mortality	Rate, Mortality
EU	16.497	5,1	6.078	1,7
France	2.850	7,3	856	2,0
Germany	2.727	4,7	931	1,5
Italy	1.941	4,6	827	1,6
Spain	1.048	3,2	426	1,3

## H&N (in Males)

Country	Number, Incidence	Rate, Incidence	Number, Mortality	Rate, Mortality
EU	57.943	22,0	21.483	8,1
France	13.023	40,8	3.436	10,6
Germany	11.746	24,5	3.522	7,2
Italy	5.514	16,5	1.988	5,5
Spain	4.607	20,0	1.797	7,7

- No established screening for H&N cancer; Cancer diagnosis only
  - vs. Established screening programs for cervical cancer
  - Results in big difference in potential available market