



Ecole Supérieure  
Polytechnique



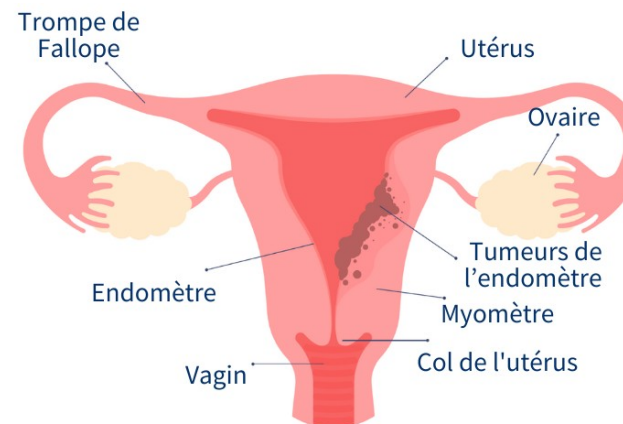
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STAGE TOPIC :

# **Bio-informatics** analysis of public data : Study of genomics variants associated to **cervicals** **adénocarcinoma**

**Master**

Dr TIBIRI



**Probationer**

Ian Lucas KABORE

# **Plan**

**Generalities**

**Symptoms**

**Diagnostic**

**Adénocarcinoma et  
carcinoma epidermoïde**

# Generalities

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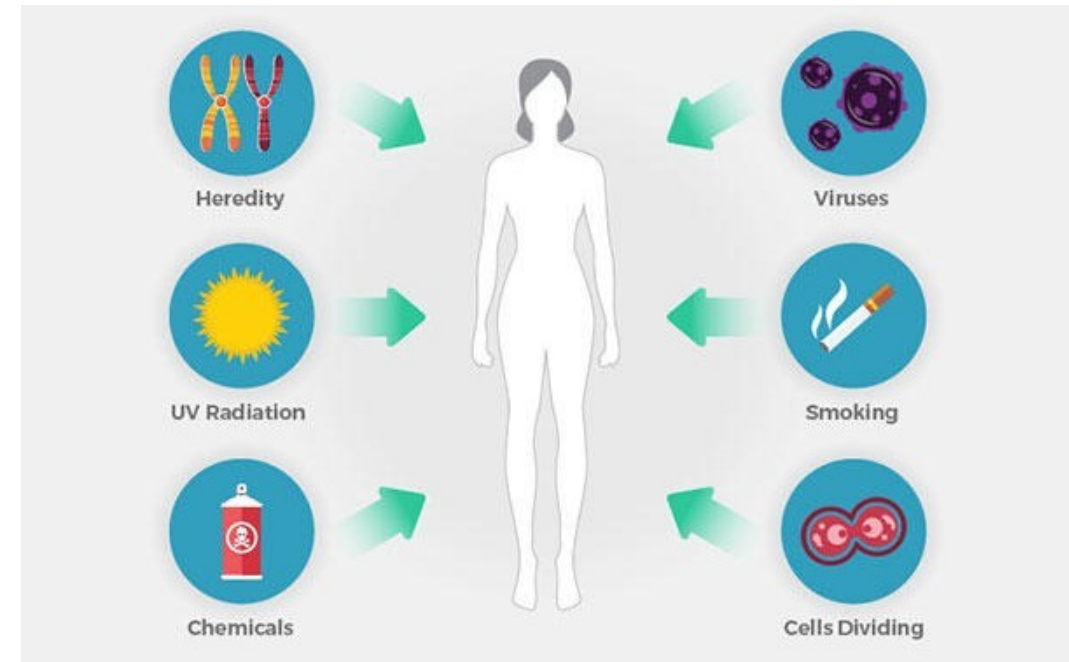
**Cancer**

Abnormal cell + Excessive proliferation

**Uterus**



## Causes of cancer



# Generaliti es

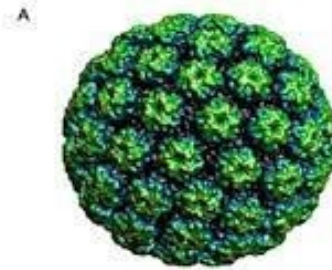
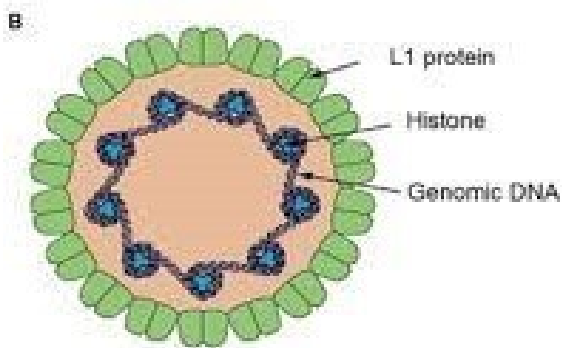
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## Virus (HPV)

Circular DNA virus

Non-envelopped virus

Virus à capside icosaédrique



## Stades

### Stade 1 Micro-invasif cancer

Stade 1A Unseen on bare eye

Stade 1B Seen on bare eye

### Stade 2 Proximal expansion

Stade 2A Vaginal extension

Stade 2B Extravaginal extension

### Stade 3 Distal expansion

Stade 3A reach 1/3 of the lower of vagina

Stade 3B reach pelvis wall/ ureter

### Stade 4 Métastasis

Stade 4A la majority of pelvis and more

Stade 4B other part of the body (lung, liver,  
bone

...)

# Symptoms

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Hors

menstrues

Spontaneous ou provoked par des rapports

sexuels

Disorderly menstrual

period

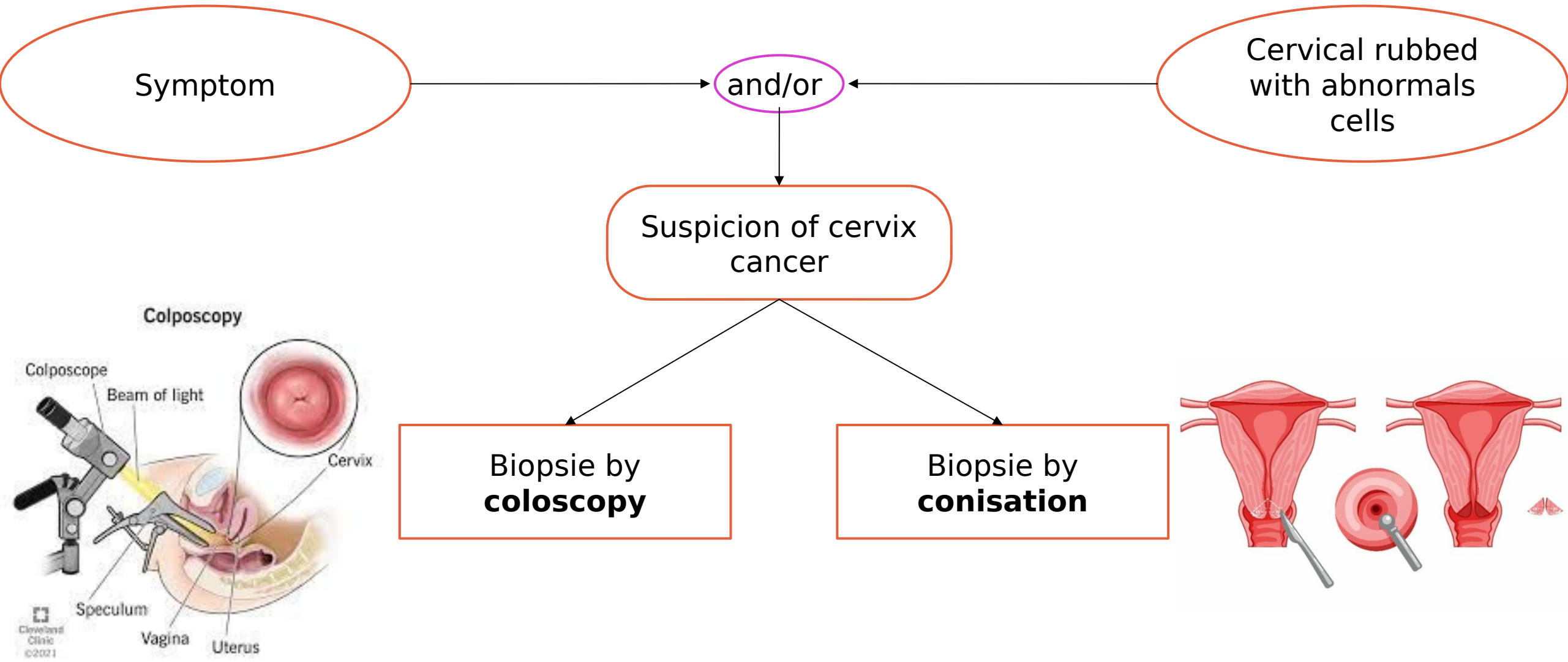
## 1. Vaginal bleeding

## 3. Pelvis pains

## 2. Vaginal flow

# Diagnosis

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# Adenocarcinome and carcinome épidermoïde

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## Cancer

**Solid cancer**

Liquid cancer

Metastasic cancer

Secondary cancer

**Carcinome**

sarcome

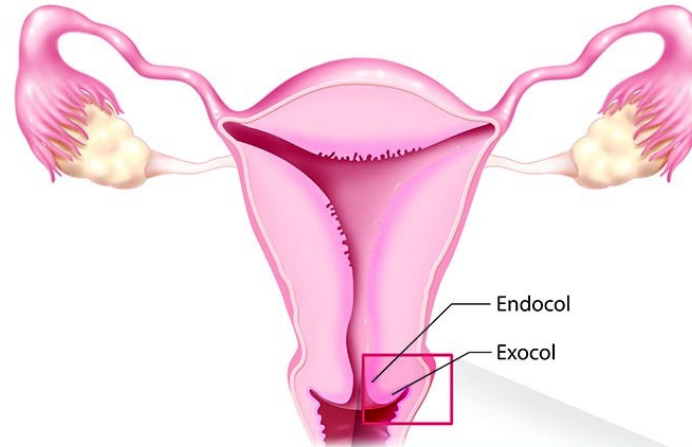
Carcinome épidermoïde

**Adénocarcinom**

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**HPV**

Cause of cervix cancer



Endocol

Exocol

Muqueuse de l'endocol  
(muqueuse glandulaire)

**Adénocarcinome**  
(10 à 20 % de cancers)

Muqueuse de l'exocol  
(muqueuse malpighienne)

**Carcinome épidermoïde**  
(80 à 90 % de cancers)

Zone de  
jonction



# Adenocarcinoma and carcinoma épidermoïde

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**Why** adénocarcinoma ?

Vital pronostic **more**  
**deadly**

**few** information

**Augmentation** of cases  
numbers

Majority of genes are associated to non coding  
area. **That's the problem**

Positively regulated genes

**CEACAM5 , TACSTD1 , S100P** et  
**MSLN**

Adénocarcinoma

**S100A9** et **ANXA8**

Carcinoma épidermoïde



# Perspectives

**Bio-informatics** analysis of public data : Study of genomics variants associated to **cervicals adénocarcinoma**