

**Dipartimento Chirurgico, Medico, Odontoiatrico e di Scienze Morfologiche con  
Interesse Trapiantologico, Oncologico e di Medicina Rigenerativa**

***LABORATORIO DI ISTOLOGIA  
E ANATOMIA***

**GRUPPO DI RICERCA:**

Prof. Laura Bertoni, Gianluca Carnevale, Paola Sena, Jessika Bertacchini

Post-doc: Giulia Orlandi

Dottorandi: Rosanna Di Tinco, Giulia Bertani

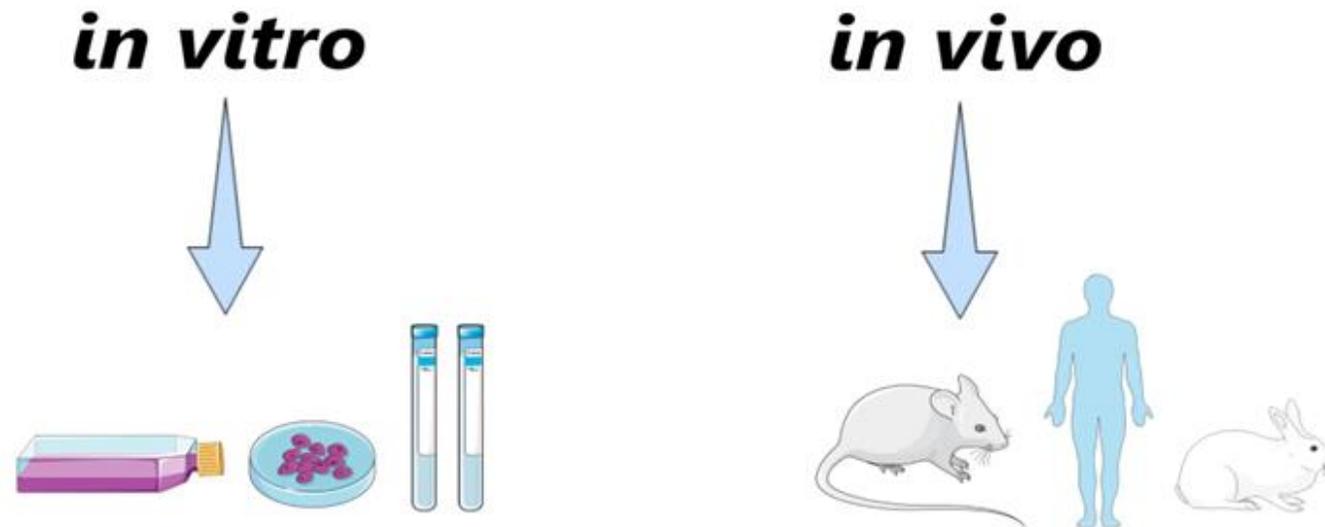
Numero di posti disponibili per gli studenti di Farmacia per a.a.

1 per tesi sperimentale

1 per tesi compilativa (argomento a scelta dello studente)

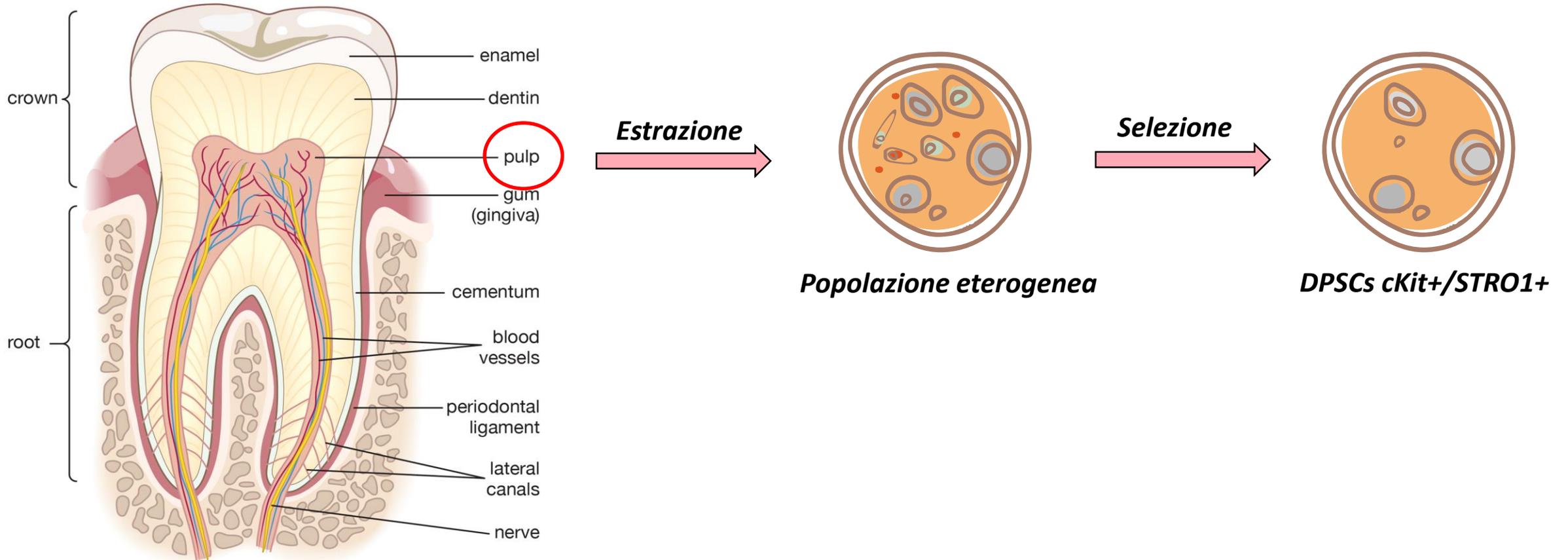
## *Progetti principali in corso*

- 1 Development of advanced therapy medicinal products for rheumatoid arthritis based on dental pulp stem cells - FINALIZZATA (MINISTERO DELLA SALUTE) 2021-2025



# DPSCs

## CELLULE STAMINALI DELLA POLPA DENTALE



2

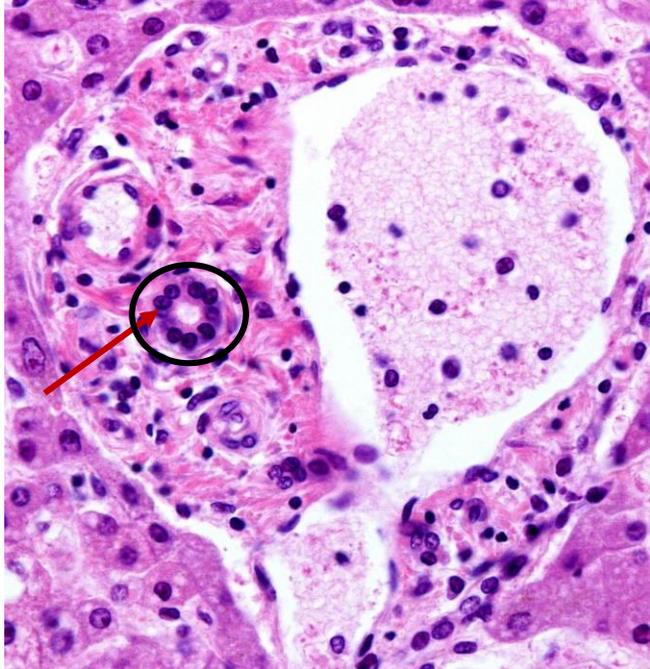
DEMO:Diseases modelling and early therapeutic tools in chronic cholangiopathies and cholangiocarcinoma - PRIN 2020

3

INNOVACHOLANGIO: Innovative tissue and non-invasive biomarkers for a precision medicine in Cholangiocarcinoma, early diagnosis and therapeutic response of tumor subtypes – PRIN 2022

## ***COLANGIOCITI***

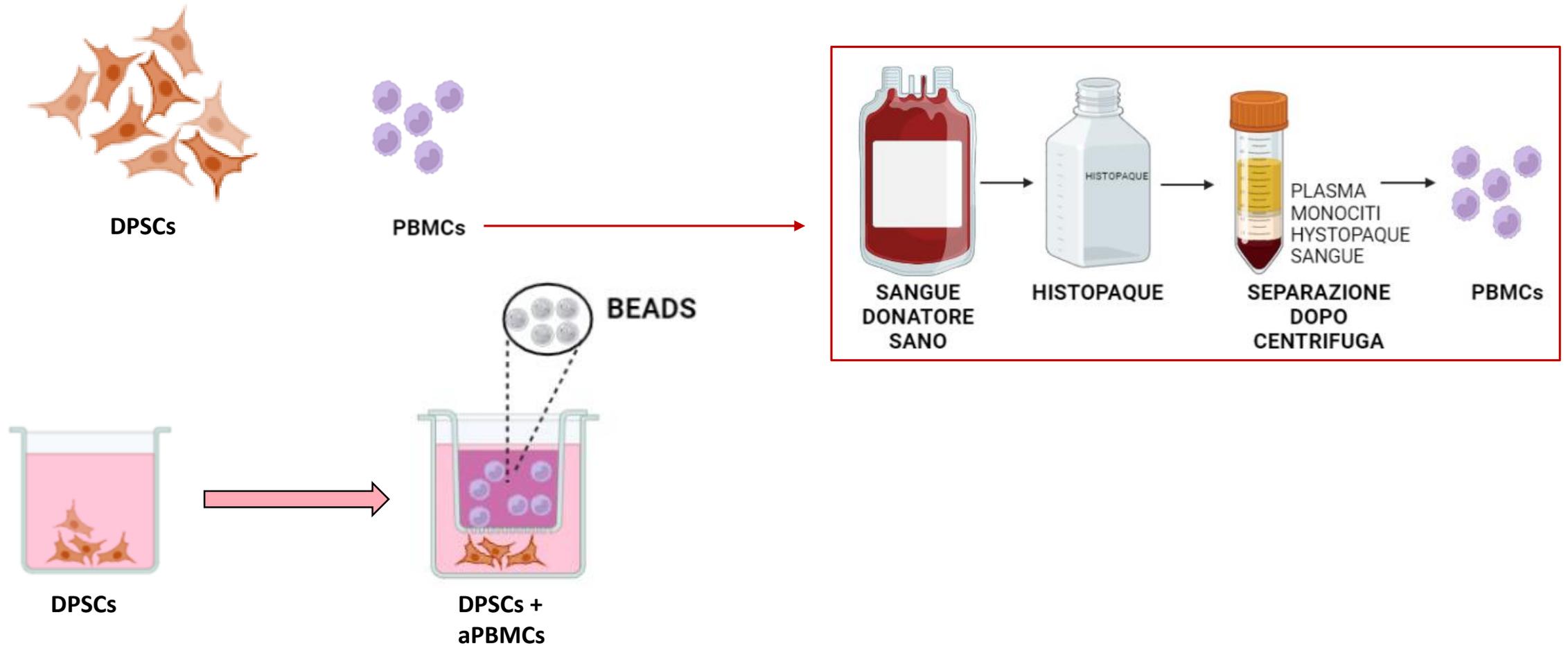
CELLULE EPITELIALI DEI DOTTI BILIARI



- Modificano la bile all'interno del lume duttale
- Trasportano i costituenti biliari
- Formano una barriera nei confronti di molecole e microrganismi potenzialmente dannosi presenti nella bile

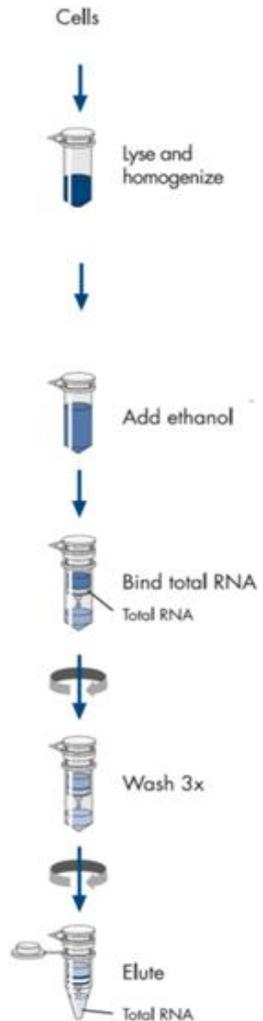
# Esempi di TECNICHE di INDAGINE

## CO-COLTURA IN VITRO

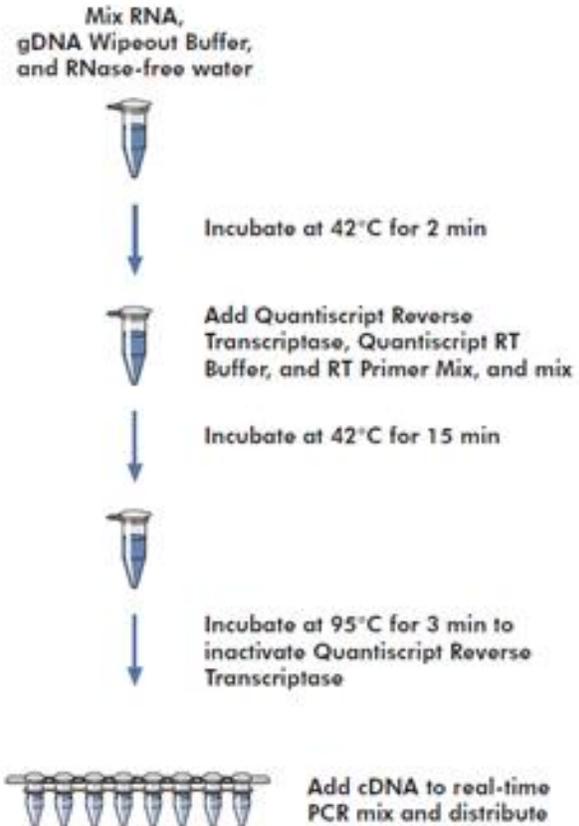


# REAL-TIME PCR

## Estrazione dell'RNA

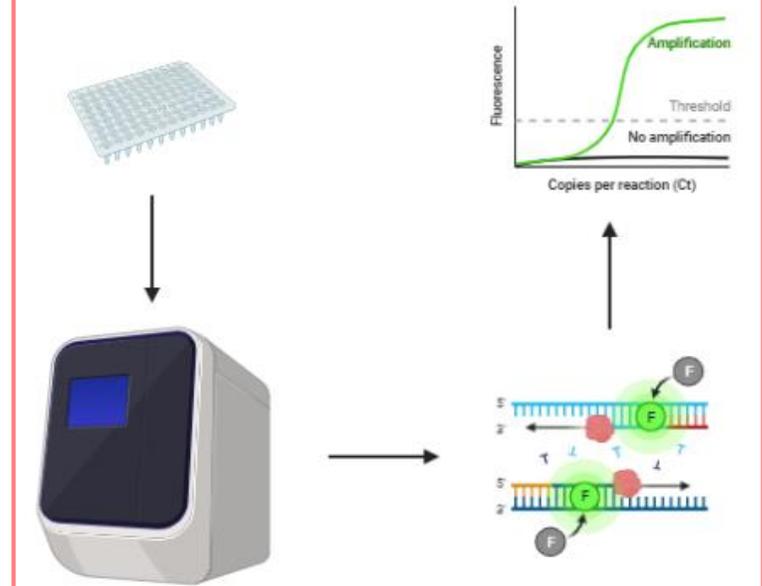


## Retrotrascrizione dell'RNA

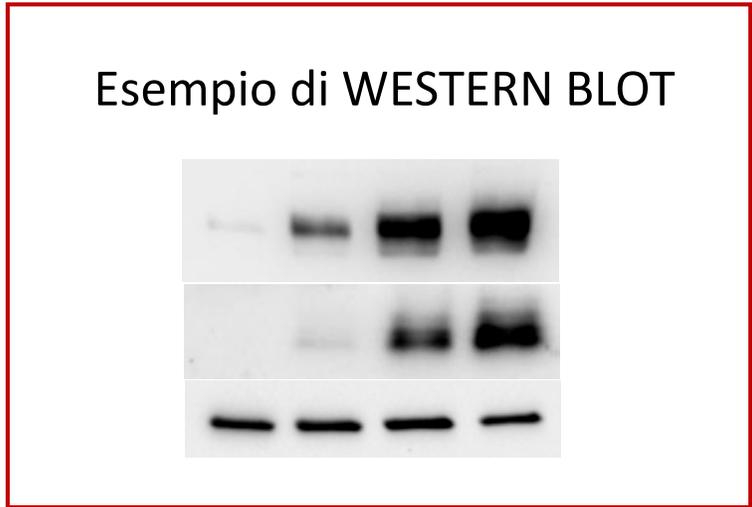
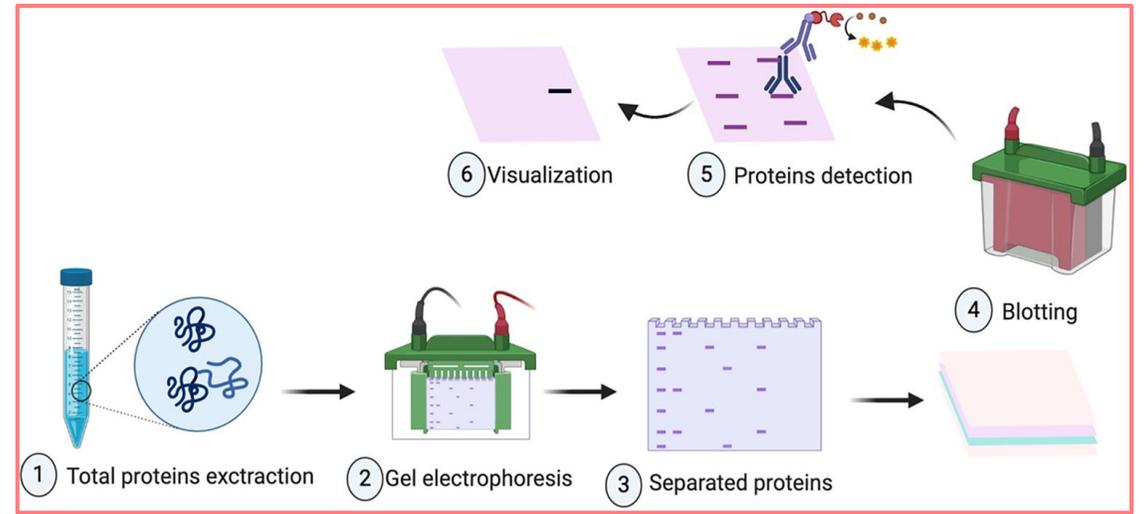
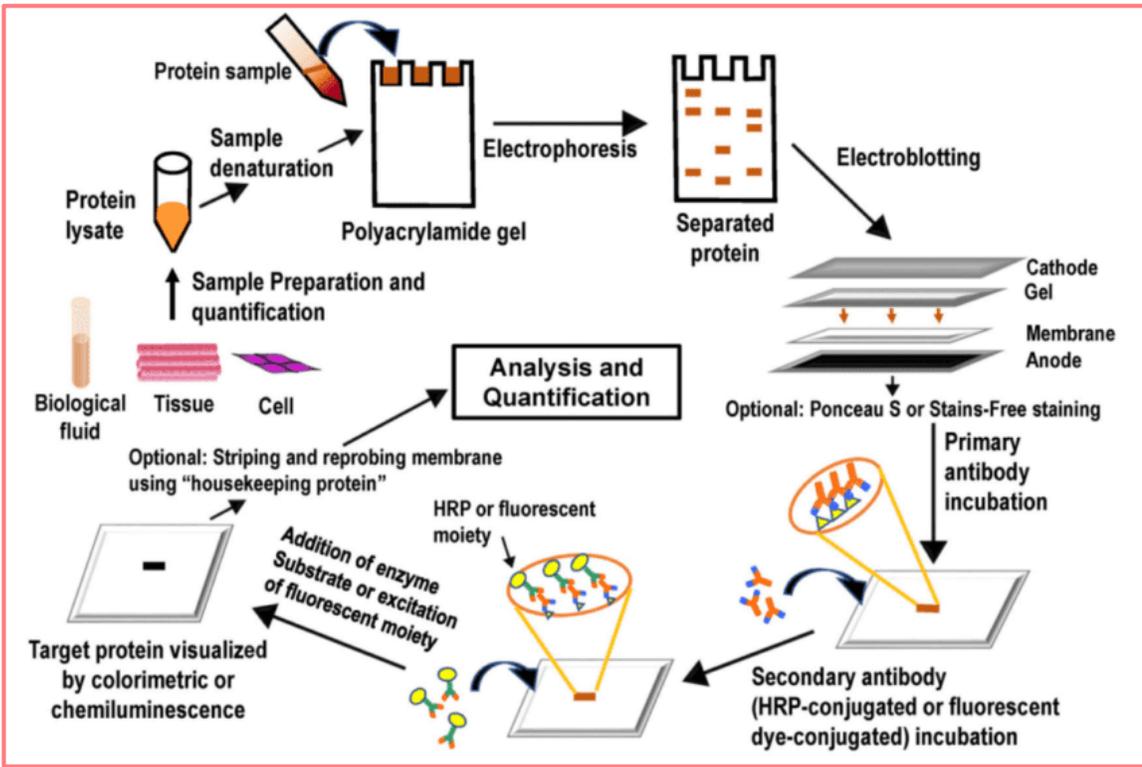


Quantitative, real-time PCR

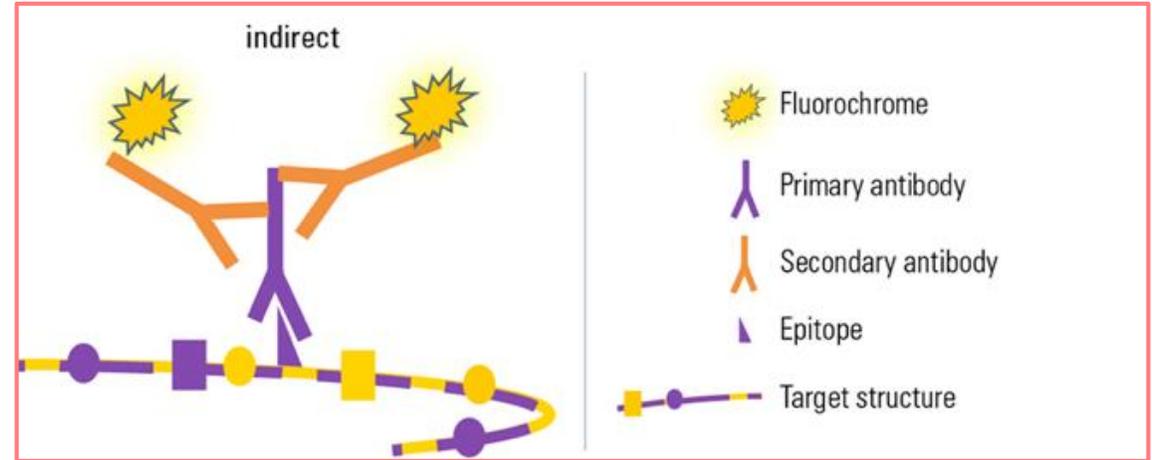
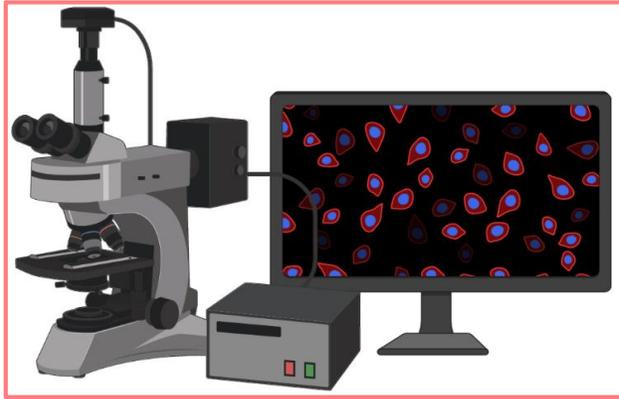
## Quantitative, Real-Time PCR



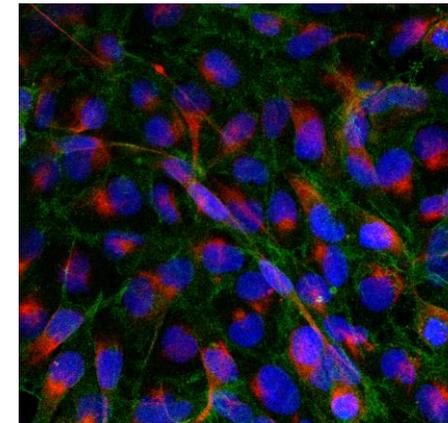
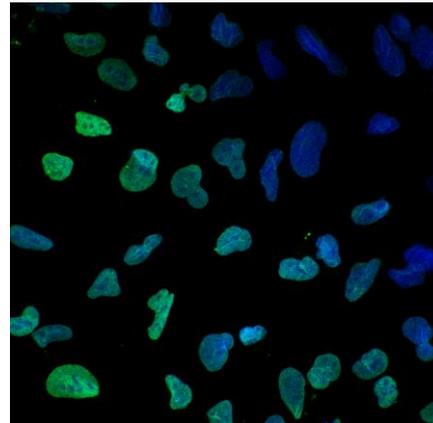
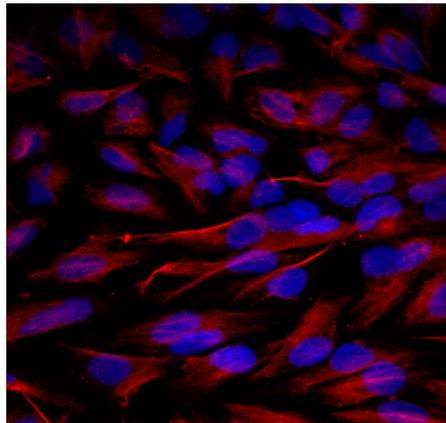
# WESTERN BLOTTING



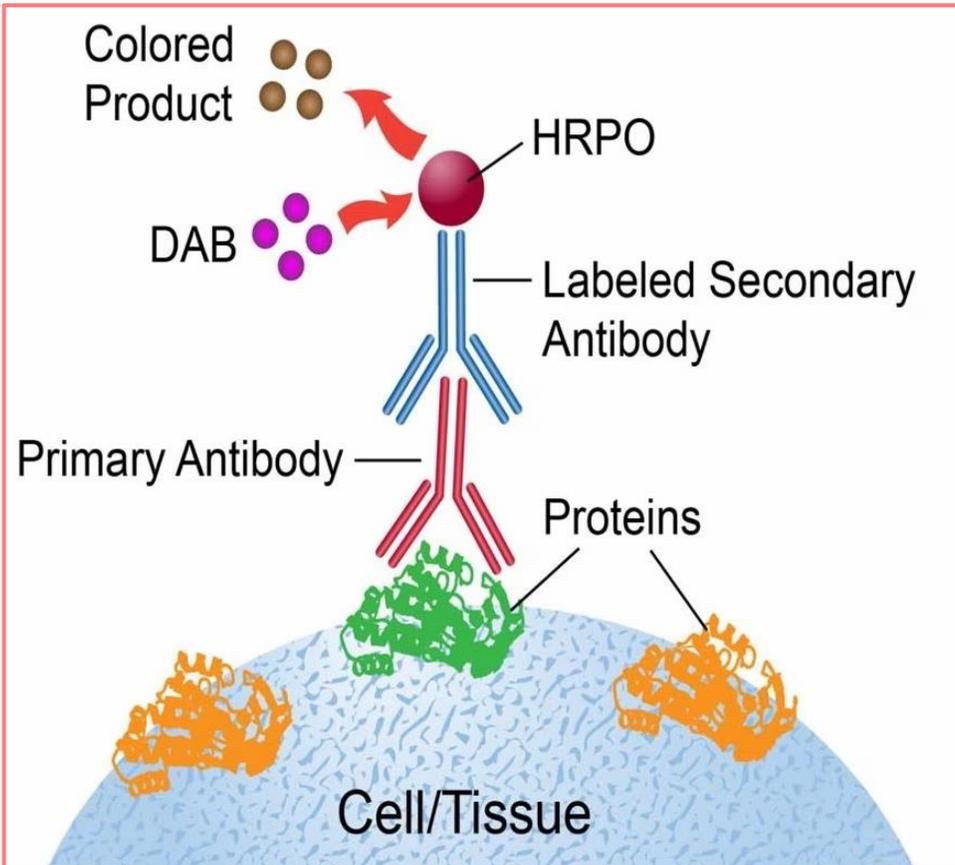
# IMMUNOFLUORESCENZA



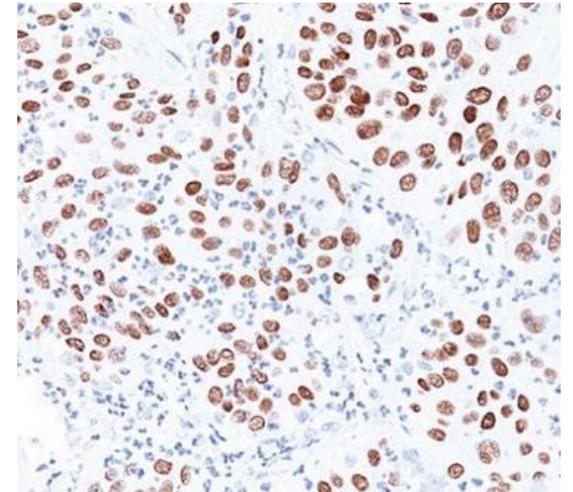
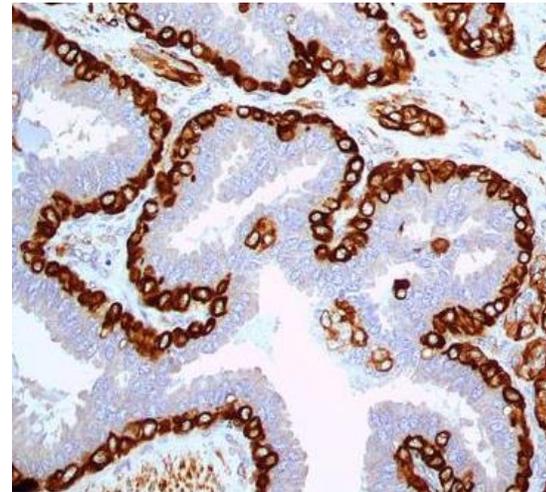
## Esempio di IMMUNOFLUORESCENZA



# IMMUNOISTOCHIMICA



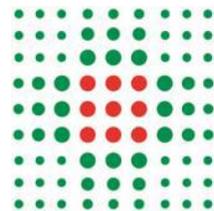
Esempio di IMMUNOISTOCHIMICA





**UNIMORE**

UNIVERSITÀ DEGLI STUDI DI  
MODENA E REGGIO EMILIA



**SERVIZIO SANITARIO REGIONALE  
EMILIA-ROMAGNA**

**Azienda Unità Sanitaria Locale di Reggio Emilia**

IRCCS Istituto in tecnologie avanzate e modelli assistenziali in oncologia



**SAPIENZA**  
UNIVERSITÀ DI ROMA



**UNIVERSITY OF  
ABERDEEN**