

**Source:**

## 1 | **sources source**

1.1 | **assignment:** <https://nuevaschool.instructure.com/courses/3087/assignments/56036>

1.2 | **reading: Hallmarks of Cancer PDF**

## 2 | **Flow**

### 2.1 | **Abstract**

#### 2.1.1 | **hallmarks include**

1. sustaining proliferative signaling
2. evading growth suppressors
3. resisting cell death
4. enabling replicative immortality
5. inducing angiogenesis
6. activating invasion and metastasis

#### 2.1.2 | **these hallmarks are newer**

1. reprogramming of energy metabolism
2. evading immune destruction

#### 2.1.3 | **underlying**

1. genome instability
  - (a) genetic diversity that expedites acquisition of hallmarks
2. inflammation
  - (a) "fosters multiple hallmark functions"

### 2.2 | **Introduction**

#### 2.2.1 | **Cancer cells evolve into cancer cells because they need to be cancer cells??**

1. TODO why do tumors have "the need ... to acquire the traits that enable them to become tumorigenic and ultimately malignant"? question

## 2.3 | **section**

## 3 | **Vocab**

### 3.1 | **TODO neoplastic disease**

### 3.2 | **ostensibly**

#### 3.2.1 | **maybe 'technically'?**

### 3.3 | **tumor microenvironment**

#### 3.3.1 | **presumably inflammation, recruited normal cells, and other stuff that helps the tumor grow**

### 3.4 | **pathogenesis**

#### 3.4.1 | **evolution of 'pathogen' (cancer)**

### 3.5 | **ancillary proposition**

#### 3.5.1 | **maybe the starting / base proposition**

### 3.6 | **insular masses**

#### 3.6.1 | **stagnant or something, simple**

### 3.7 | **heterotypic interactions**

#### 3.7.1 | **many types of interactions**