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 ingiogenesis
- 6. activating invasion and metastasis

2.1.2 | theese 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 traints that enable them to become tumorigenic and ultimately malignant"? question

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- 2.2.2 | tumors are not simple / idle 'insular masses of proliferating cancer cells'
- 2.2.3 | "recruited" normal cells (or 'stromal cells') are active parts of the tumor
- 2.2.4 | 'the biology of tumors can no longer be understood simply by enumerating the traits of the cancer cells but instead must encompass the contributions of the "tumor microenvironment" to tumorigenesis.'
- 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 | pathogenisis
- 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

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