**Testi del Syllabus**

**Resp. Did.**  PERIN ALESSANDRO  
**Matricola:** 015060

**Docente**  PERIN ALESSANDRO, 3 CFU

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<th>Anno offerta:</th>
<th>2016/2017</th>
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<td>Insegnamento:</td>
<td>701SM - NEUROONCOLOGY</td>
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<td>Corso di studio:</td>
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<td>Secondo Semestre</td>
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**Testi in italiano**

**Testi in inglese**

**Lingua insegnamento**  English

**Contenuti (Dipl.Sup.)**  
key-papers from Dick - Dirks - Weiss - Galli, tumor heterogeneity vs hierarchy, definition of GSC, pitfalls of this hypothesis. Evolution of the glioma stem-like cell hypothesis. Extra: how to give a good talk in science. Practical and theoretical examples of DOs and DONTs when you have to prepare and deliver a scientific presentation in front of an audience. This lesson is part of the program, since a part of the final examination will deal with that. See for instance: Alon, U. (2009) Molecular Cell 36, 165-167. History of viral therapy for GBM, viral vectors for GBM, HSV-1 for GBM, hypoxia-GBM-viral therapy, bovine viral vectors for GBM. Definition of translational research, overview on GBM in vitro and in vivo models, serum vs serum-free GBM cell cultures, in vivo models (chemically induced, mutation driven - transgenic models, isograft vs xenograft), virus mediated gene delivery for GBM.

**Testi di riferimento**


**Obiettivi formativi**

To understand the basic principles of neuro-oncology, with special regard to the genetic and molecular mechanisms involved.

**Prerequisiti**

None

**Metodi didattici**

Frontal lessons

**Altre informazioni**

For any doubt or for additional information: perin.a@istituto-besta.it
dsgubin@gmail.com

**Modalità di verifica dell'apprendimento**

Oral examination. Students will be given max 3min to answer each of the two questions. No feedback will be provided. Questions and answers might be tape recorded.

**Programma esteso**

key-papers from Dick - Dirks - Weiss - Galli, tumor heterogeneity vs hierarchy, definition of GSC, pitfalls of this hypothesis. Evolution of the glioma stem-like cell hypothesis. Extra: how to give a good talk in science. Practical and theoretical examples of DOs and DONTs when you have to prepare and deliver a scientific presentation in front of an audience. This lesson is part of the program, since a part of the final examination will deal with that. See for instance: Alon, U. (2009) Molecular Cell 36, 165–167. History of viral therapy for GBM, viral vectors for GBM, HSV-1 for GBM, hypoxia-GBM-viral therapy, bovine viral vectors for GBM. Definition of translational research, overview on GBM in vitro and in vivo models, serum vs serum-free GBM cell cultures, in vivo models (chemically induced, mutation driven - transgenic models, isograft vs xenograft), virus mediated gene delivery for GBM.