

CURRICULUM VITAE

SCHWARTZ Laurent

TITLES :

- Baccalauréat: In science (mentionTB), 1976.
- Internat de Strasbourg (1st in the class), 1983
- Masters in science (Université Louis Pasteur, Strasbourg), 1985.
- M.D., Faculté de Médecine de Strasbourg, 1985.
- Residency MGH (Harvard University) 1987-1990
- American Boards in Radiation Therapy, 1992.
- French Boards in Radiation Therapy, 1993.
- Chevalier de l'ordre National du Mérite, 1997
- Ph. D., Faculté de Paris Saint-Antoine 1998

WORKING EXPERIENCE

2000- Present day-Senior staff: Senior staff Assistance Publique des Hôpitaux de Paris

2002- 2016 Senior researcher Ecole Polytechnique

1990- 1993 : Junior staff: Radiation-Oncology Department, Hôpital Tenon ,Paris

1987 - 1990 : Résident: Radiation Therapy Department, Massachusetts General Hospital, Harvard Medical School

1985 - 1987 : Researcher at the National Cancer Institute. Medical Branch, Breast Cancer Section National Institutes of Health,

Major discoveries:

1) Inflammation and increased extracellular osmolarity are synonymous

Is Inflammation a consequence of extracellular osmolarity
Schwartz L, Guais A, Pooya M, Abolhassani M.
J Inflamm (Lond). 2009 Jun 23;6:21.

2) CO₂ is responsible for the toxicity of tobacco smoke

Schwartz, L., Guais, A., Chaumet-Riffaud, P., Grévillot, G., Sasco, A. J., Molina, T. J., & Abolhassani, M. (2010). Carbon dioxide is largely responsible for the acute inflammatory effects of tobacco smoke. *Inhalation toxicology*, 22(7), 543-551.

3) Alzheimer disease is a mechanical disease

Mechanical stress related to brain atrophy in Alzheimer's disease
Levy Nogueira M, Lafitte O, Steyaert JM, Bakardjian H, Dubois B, Hampel H, Schwartz L.
Alzheimers Dement. 2016 (1):11-20

4) The effect of hormones is mediated by physical constraints

Wertz X., Schoevaert, Maitournam H., Chassagnet P. Schwartz L.
The effects of hormones on bone growth is mediated through mechanical stress
C.R. Biologies 2006, 309, 79-85

5) The biology of cancer is a simple consequence of the Warburg effect

The Warburg effect and the Hallmarks of cancer
Schwartz L, Supuran CT, Alfarouk KO.
Anticancer Agents Med Chem. 2017;17(2):164-170.

6) The combination of lipoic acid and hydroxictrate inhibits cancer growth whatever the subtype of cancer

Screening of well established drugs targeting cancer metabolism: reproducibility of the efficacy of a highly effective drug combination in mice
Abolhassani M, Guais A, Sanders E, Campion F, Fichtner I, Bonte J, Baronzio G, Fiorentini G, Israël M, Schwartz L.
Invest New Drugs. 2012 Aug;30(4):1331-42.

7) Metabolic treatment appears a very effective cancer treatment

Out of Warburg effect: an effective cancer treatment targeteting the tumor specific metabolism

Schwartz L, Seyfried T, Alfarouk KO, Da Veiga Moreira J, Fais S.
Semin Cancer Biol. 2017 Jan 22.

Publications

Author of more than 250 papers in peer-reviewed journals (Nature, Cancer Research, Radiation Research....) and 6 books