**The degenerating brain - From research to hope 76949 - 2014**

Prof. Hermona Soreq and Dr. Sebastian Kadener

Teaching assistant: Geula Hanin

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| **DATE**  |  **lecturer** | **Tentative Topics** |
| 20 Feb | Dr. Sebastian Kadener | ***Class 1:***  Gene vs. Environment. |
| 27 Feb | Prof. Hermona Soreq | ***Class 2:*** Introduction for neurodegenerative diseases and Alzheimer’s disease  |
| 6 March | Geula Hanin |  ***Class 3:*** The Cell  |
| 13 March | Geula Hanin | ***Class 4:*** From DNA to protein |
| 20 March | Geula Hanin | ***Class 5:*** The central nervous system – from  neurons to brain functions |
| 27 March | Dr. Yossi Mandel | ***Class 6:*** Retina degeneration & photovoltaic retinal prosthesis |
| 3 April | PESACH |  |
| 10 April | PESACH |  |
| 17 April | PESACH |  |
| 24 April | PESACH |  |
| 1 May | Prof. Hermona Soreq | ***Class 7:***  Parkinson's disease  |
| 8 May | Prof. Orna Amster Hoder | ***Class 8:*** Protein and RNA mislocalization |
| 15 May  | Prof. Orna Elroy-Stein | ***Class 9:***  Regulation of mRNA Translation in the Brain |
| 22 May | Prof. Alon Friedman | ***Class 10:***  Stroke |
| 29 May  | Dr. Sebastian Kadener | ***Class 11:***  Animal disease models: primates, mice, flies, worms. |
| 5 June | Shavuot |  |
| 12 June | Prof. Dan Frenkel | ***Class 12:*** Neuroinflammation and neurodegenerative diseases |
| 19 June | Dr. Neta Zach | ***Class 13:***   *ALS* |

* Attendance: mandatory.
Absence of 10% of the classes or more (2 lectures or more) will reduce the final score by 5 points.
* Grading: 3 home assignments (30% total, 10% each) and home-written work on topics discussed in the class (70%).