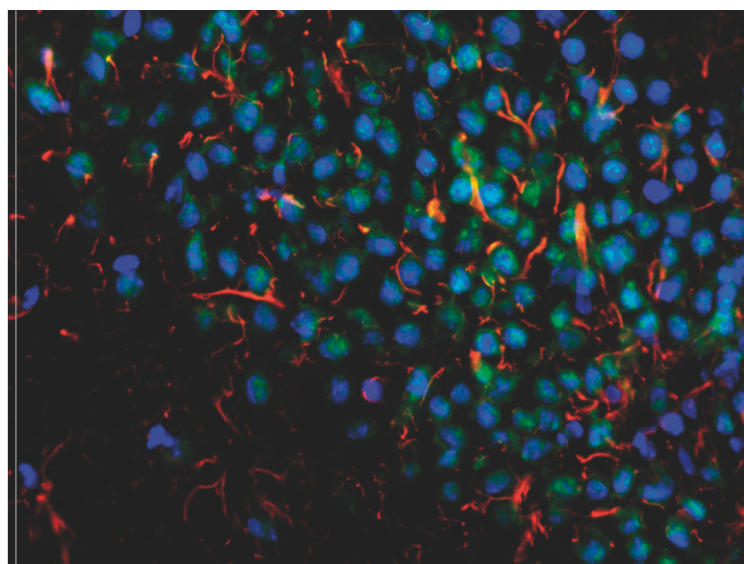




Cholinergic system meets neuroinflammation

from bench to bedside and back



Programme and impressions from the symposium
in Heidelberg on April 13, 2018.



On April 13th, 2018, the Heidelberg University Hospital invited to the scientific meeting "**Cholinergic system meets neuroinflammation**".

The thematical framework of the meeting aimed to cover both worlds - bench and bedside, focusing on neuroinflammation. The world's most renown basic scientists in the field of cholinergic research as well as outstanding physician scientists acting on the front line of patient treatment presented their work.

A special focus was on the topic of "delirium": how does a delirium arise, what consequences does a delirium have and how can a delirium be detected even better in the future?

The audience was informed about the latest results from the USA, from Israel and from Germany and can thus gained an even deeper insight into the cholinergic system.



Programme

A) Basic science paves the way

- *Anatomical considerations for the cholinergic anti-inflammatory pathway*
Wolfgang Kummer, Gießen
- *Role of microRNAs in the regulation of cholinergic processes*
Hermona Soreq, Jerusalem

B) From bench to bedside: Inflammation and Sepsis

- *Therapeutic implications for sepsis and inflammation*
Markus A. Weigand, Heidelberg
- *Neuroinflammation and the cholinergic anti-inflammatory pathway in animal models*
Jürgen Kopitz, Heidelberg
- *Endothelium and the blood brain barrier: where systemic and neuronal Inflammation collides*
Christopher G. Hughes, Nashville

C) Brain under attack - the clinician's view

- *Delirium pathophysiology – Systems Integration failure as an explanation for acute brain failure*
Jose R. Maldonado, Stanford
- *A new frontier in critical care: saving the injured brain!*
E. Wesley Ely, Nashville

D) From bench to bedside II: Delirium

- *German networks and the PAWEL study*
Rebecca von Haken, Heidelberg & Christine Thomas, Stuttgart
- *German guidelines for delirium – current studies*
Claudia Spies, Berlin



Prof. Hermona Soreq
The Hebrew University of Jerusalem
Israel



Prof. Christopher Hughes
Vanderbilt University Medical Center
USA



Prof. E. Wesley Ely
Vanderbilt University Medical Center
USA



Prof. José R. Maldonado
Stanford University School of Medicine
USA



Prof. E. Wesley Ely and Prof. José R. Maldonado at the Heidelberg Symposium