

Dear friends and colleagues,

It is a pleasure to welcome you to our 5th Venusberg meeting on neuroinflammation. This year we intend to cover a wide range of different aspects of immune activation in the brain.

We have composed sessions that focus on new genetic hints, the role of the microbiome for CNS function and neuron-glia interactions. Renowned speakers will cover neuroinflammation topics and connect their recent findings and insights to clinical observations and development of novel treatment strategies. We hope you will enjoy your participation and your visit to Bonn.

Michael Heneka, Pierluigi Nicotera
on behalf of the Organisational Committee

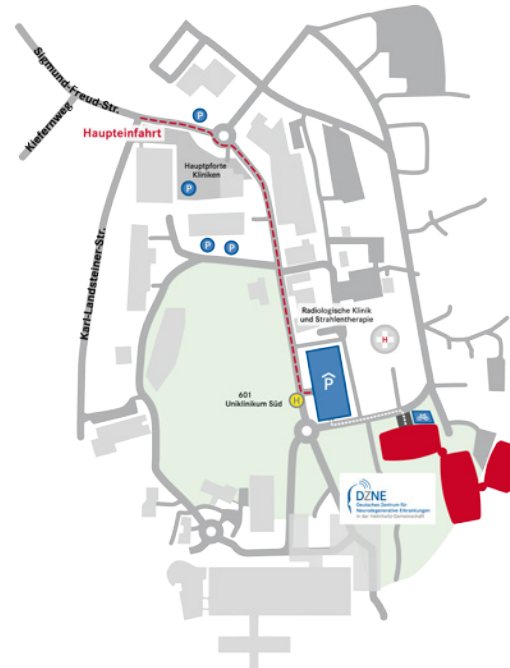
Scientific Committee

Michael Heneka, Markus Kummer, Eicke Latz, Richard Ransohoff, Tony Wyss -Coray, David Morgan, Karl Herrup, Nicolas Bazan, Hugh Perry, Douglas Feinstein

Support

Venue

The meeting venue is located in the DZNE building (building 99) on the premises of the University Clinic Bonn. There is a bus (line SB60) from the Cologne/Bonn airport to Bonn main station. From there you either take a taxi or bus line 601 heading to "Uniklinikum Süd". Get off at the last bus stop "Uniklinikum Süd". For further information, please check www.dzne.de/vm17.



Organisational Committee

Anne Thieme, Lilly Hendricks, Ildikó Racz

DZNE

German Center
for Neurodegenerative
Diseases

Sigmund-Freud-Str. 27
53127 Bonn

Contact: Anne Thieme,
Lilly Hendricks

+49 228-43302 266

+49 (0) 151 6565 8421

+49 (0) 175 5744 890

events@dzne.de

www.dzne.de/vm17



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5th Venusberg Meeting on Neuroinflammation

Privileged or not: basic, translational and clinical
aspects of immune activation in the brain

Bonn, May 11th - 13th, 2017

Thursday, May 11th

09:00 Welcome (Nicotera, Heneka)

09:15 **Plenary Talk 1: Microglia: Current concepts and research update (Ransohoff)**

Session 1

Epigenetics, Genetics and applied models

10:00 GWAS, Post-GWAS and neuro-inflammation: what can we learn? (Lambert)

10:30 TREM2 mechanism (Haass)

11:00 **Coffe Break**

11:30 The genomics of neurodegeneration (Hardy)

12:00 Translating “omic” data to lead therapeutic compounds: Discovery and targeting of large-scale epigenomic changes related to Tau pathology (de Jager)

12:30 The Goldilocks Zone and Immunoproteostasis in Neurodegenerative Disorders (Golde)

13:00 **Lunch Poster Session 1**

14:30 **Plenary talk 2:**

Session 2

Microglia and microbiome - The gut-brain axis

15:15 Host microbiota and microglia responses (Prinz)

15:45 Can induced pluripotent stem cell-derived glia help us understand and combat neurodegenerative diseases? (Roybon)

16:15 **Coffee Break**

16:45 Brain amyloid and inflammation in the guts and blood: clinical evidence (Frisoni)

17:15 Modulation of A β Amyloidogenesis and Neuroinflammation by the Microbiome (Sisoda)

Friday, May 12th

09:00 **Plenary talk 3: Microglia from pluripotent stem cells (Jaenisch)**

Session 3

Brain tumor or metastasis-microglia

09:45 Distinct responses of microglia in different brain diseases (Kettenmann)

10:15 Guilt by association, caspase-3 regulates microglia polarisation (Joseph)

10:45 **Coffe Break**

11:15 Reactive astrocytes associated with brain metastases: an initial defense rewired into a supportive niche (Valiente)

Session 4

Neuron-Microglia Interaction

11:45 Progranulin and Microglia-Neuron Interactions in the Aging Brain (Huang)

12:15 **Lunch Poster Session 2**

14:00 **Plenary talk 4: Tissue immunometabolism (Chawla)**

Session 5

Emerging targets

14:45 Microglial dynamics in health and disease (Gomez-Nicola)

15:15 Evidence for innate immune memory in microglia (Neher)

15:45 TAM receptor regulation of microglial physiology (Lemke)

16:15 **Coffee Break**

Session 6

Neuroinflammation: Clinical Implications

16:45 tbd

17:15 In vivo [18F]-DPA-714 PET imaging of microglial activation in Alzheimer's Disease (Sarrazin)

17:45 Deprenyl und astroglia in FAD (Nordberg)

18:15 The Methodology of TSPO imaging with Positron Emission Tomography (Turkheimer)

Saturday, May 13th

09:00 **Plenary talk 5: Circulatory factors as regulators of brain inflammation and cognitive function (Wyss-Coray)**

Session 7

Adaptive and Innate immune sytem interaction

09:45 Interactions between adaptive and innate immunity in Alzheimer's disease (Jones)

10:15 Interplay of cellular adaptive immunity and innate neuroinflammation in Alzheimer's disease (Dorothee)

10:45 **Coffe Break**

11:15 Lymphatic drainage and EAE development (Louveau)

Session 8

Neuroinflammation in other NDs

11:45 Role of ALS/FTD Genes in Neuroinflammation (Baloh)

12:15 Neuroimmune mechanisms of inflammation-associated depression (Dantzer)

12:45 **Lunch Poster Session 3**

Session 9

Neuroinflammation and Traumatic Brain injury

14:15 A double whammy: how misfolded tau could hijack immune system to propagate itself and induce neuroinflammation? (Bhaskar)

14:45 Dissecting microglial dysfunction in AD and FTD (Gan)

15:15 Microglia and tau in chronic traumatic brain injury (Stein)

15:45 **Closing remarks**