

## Curriculum Vitae – Research Output

**Henricus Godefridus Johannes Maria (Eric) Vermetten, MD, PhD**

**COLONEL Head of Research - Military Mental Health Service**

**Guest Staff University Medical Center Utrecht, Department Psychiatry**

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### **1 Personal information**

Dr HGJM (Eric) Vermetten  
Born: Breda, November 13, 1961  
Nationality: Netherlands

*Contact address:*

Central Military Hospital/ Military Mental Health  
Lundlaan 1  
3584 EZ Utrecht  
The Netherlands  
P +31 30 2502591  
P +31 6 10964898  
E [hgjm.vermetten@mindef.nl](mailto:hgjm.vermetten@mindef.nl)  
E [e.vermetten@umcutrecht.nl](mailto:e.vermetten@umcutrecht.nl)

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### **2 Research**

#### **Main Research Themes**

Research is based on the assumption that medical-biological parameters important determinants of stress and trauma-related disorders. The research focuses on the acquisition of knowledge about an endophenotype for PTSD and the clinical phenotype expressed in the psychopathology or the link between these biological parameters, behavior, and 'disease'. This primary function is for the prevention, diagnosis and treatment of stress and trauma-related symptoms and disorders. This is both focused on the role of individual differences in development (early trauma, age, gender, personality etc.) and on the role of external modulators in development of PTSD (exposure, control, and environmental factors such as social support). There is also a focus on dynamics in the time and attention to reactivity, such as an altered responsiveness to stimuli, sleep, memory and emotional regulation. Coordination of research to improve and standardize (clinical) diagnosis (including screening and assessment of symptoms); summarized as

- Evaluation (using quantitative and qualitative methods) of trauma-related interventions (including carrying out impact studies of specific interventions);
  - Analysis of determinants (ie study of risk factors and protective factors of psychopathology, as well as trajectories of resilience and pathology).
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### 3 List of Publications (Web of Science)

#### Peer-reviewed journal articles

1. Bremner JD, Randall P, **Vermetten E**, Staib L, Bronen RA, Mazure C, Capelli S, McCarthy G, Innis RB, Charney DS: Magnetic resonance imaging-based measurement of hippocampal volume in posttraumatic stress disorder related to childhood physical and sexual abuse - A preliminary report. *Biological Psychiatry* 1997, 41:23-32.
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16. **Vermetten E**, Bremner JD: Circuits and systems in stress. I. Preclinical studies. *Depression and Anxiety* 2002, 15:126-47.
17. **Vermetten E**, Loewenstein RJ, Zdunek C, Wilson K, Bremner JD: Cortisol, memory and the hippocampus in PTSD and DID. *Biological Psychiatry* 2002, 51:144S-5S.
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