

# The costs and benefits of emotional memory formation

## Citation for published version (APA):

Hurlemann, R. (2007). *The costs and benefits of emotional memory formation*. Shaker Verlag.  
<https://doi.org/10.26481/dis.20071025rh>

## Document status and date:

Published: 01/01/2007

## DOI:

[10.26481/dis.20071025rh](https://doi.org/10.26481/dis.20071025rh)

## Document Version:

Publisher's PDF, also known as Version of record

## Please check the document version of this publication:

- A submitted manuscript is the version of the article upon submission and before peer-review. There can be important differences between the submitted version and the official published version of record. People interested in the research are advised to contact the author for the final version of the publication, or visit the DOI to the publisher's website.
- The final author version and the galley proof are versions of the publication after peer review.
- The final published version features the final layout of the paper including the volume, issue and page numbers.

[Link to publication](#)

## General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal.

If the publication is distributed under the terms of Article 25fa of the Dutch Copyright Act, indicated by the "Taverne" license above, please follow below link for the End User Agreement:

[www.umlib.nl/taverne-license](http://www.umlib.nl/taverne-license)

## Take down policy

If you believe that this document breaches copyright please contact us at:

[repository@maastrichtuniversity.nl](mailto:repository@maastrichtuniversity.nl)

providing details and we will investigate your claim.

## PROPOSITIONS

### *The Costs and Benefits of Emotional Memory Formation*

René Hurlemann

I.

A human ability to remember the exceptional over the mundane confers advantages for survival and reproductive success. However, this privilege has costs and benefits.

II.

The influence of emotion on human episodic (autobiographical) memory is associated with two contradictory effects in the form of hypermnesia and amnesia.

III.

Emotion-induced hypermnesia and amnesia are amygdala-dependent and vary as a function of noradrenergic-glucocorticoid input to the amygdala during emotional episodic encoding.

IV.

A modulation of episodic encoding according to the emotional dimensions of arousal and valence is part of the design that the human brain uses to organize forgetting and remembering. In patients with borderline personality disorder (BPD), this organization is dysregulated.

V.

*We must recollect that all of our provisional ideas in psychology will presumably one day be based on an organic substructure.*

Sigmund Freud

VI.

A lack of emotional equilibrium is a common denominator across psychiatric disorders.

VII.

Many individuals with depression do not seek treatment, although the majority even those whose depression is severe can be helped. Thanks to years of fruitful research, there are novel therapies available that ease the pain of depression.

VIII.

This is an exciting time for schizophrenia research. The explosion of knowledge in genetics, imaging neuroscience, and behavioral research will enable a better understanding of the causes of the disorder, how to prevent it, and how to develop better therapies.

IX.

*If you have an apple and I have an apple and we exchange apples, then you and I will still each have one apple. But if you have an idea and I have an idea and we exchange these ideas, then each of us will have two ideas.*

George Bernard Shaw

X.

*Je défendrai mes opinions jusqu'à ma mort, mais je donnerai ma vie pour que vous puissiez défendre les vôtres.*

François Marie Arouet (Voltaire)

XI.

The Apple Macintosh and the Porsche 911 are the most beautiful artifacts of the 20<sup>th</sup> century.