

**FORMATO EUROPEO
PER IL CURRICULUM
VITAE**



INFORMAZIONI PERSONALI

Nome

CURRICULUM VITAE

Georg Northoff, M.D., Ph.D., FRCPC

Indirizzo

Telefono

Fax

M.D., Ph.D., FRCPC

Canada Research Chair in Mind, Brain Imaging and Neuroethics

ELJB-CIHR Michael Smith Chair in Neurosciences and Mental Health

Research Unit Director

E-mail

Nazionalità

Data di nascita

ESPERIENZA LAVORATIVA

- Date (da – a)
- Nome e indirizzo del datore di lavoro
- Tipo di azienda o settore
- Tipo di impiego
- Principali mansioni e responsabilità

ISTRUZIONE E FORMAZIONE

- Date (da – a)

- Nome e tipo di istituto di istruzione o formazione

EDUCATION

Ph.D. Philosophy, Heinrich Heine University Duesseldorf, Germany, 1999

Ph.D. Medicine/Psychiatry, Otto-von-Guericke University Magdeburg, Germany, 1998

M.A. Philosophy, Ruhr University Bochum, Germany, 1992

M.A. Medicine, Ludwig Maximilians University of Munich, Germany, 1990

M.D. Medicine, Ruhr University Bochum/Essen, Germany, 1989

EMPLOYMENT

2012 – present Full Professor; Head, Mental Disorders

Thousand Talents Program

Hangzhou Normal University, Hangzhou, China

(two months per year)

2010 – present Joint Professor, Department of Psychology

Carleton University
2009 – present Canada Research Chair in Mind, Brain Imaging and Neuroethics
EJLB-CIHR Michael Smith Chair in Neurosciences and Mental Health
Full Professor, Department of Psychiatry
Joint Professor, Department of Philosophy
Joint Professor, Department of Psychology
University of Ottawa Institute of Mental Health Research
2005 – 2009 Full Professor, Neuropsychiatry
Otto-von-Guericke University Magdeburg, Germany
2003 – 2005 Associate Professor; Chief Attending, Psychiatry
Otto-von-Guericke University Magdeburg, Germany
2000 – 2003 Visiting Associate Professor
Harvard University, USA
1998 – 2000 Assistant Professor, Psychiatry
Otto-von-Guericke University Magdeburg, Germany
1996 – 2000 Attending Physician, Psychiatry
Otto-von-Guericke University Magdeburg, Germany
1990 – 1995 Resident Physician, Psychiatry
J.W. Goethe University Frankfurt am Main, Germany

- Principali materie / abilità professionali oggetto dello studio
- Qualifica conseguita
- Livello nella classificazione nazionale (se pertinente)

CAPACITÀ E COMPETENZE

PERSONALI

Acquisite nel corso della vita e della carriera ma non necessariamente riconosciute da certificati e diplomi ufficiali.

MADRELINGUA

ALTRE LINGUA

- Capacità di lettura
- Capacità di scrittura
- Capacità di espressione orale

CAPACITÀ E COMPETENZE

RELAZIONALI

Vivere e lavorare con altre persone, in ambiente multiculturale, occupando posti in cui la comunicazione è importante e in situazioni in cui è essenziale lavorare in squadra (ad es. cultura e sport), ecc.

HONOURS AND DISTINCTIONS

Arnold Pfeffer Prize, International Society of Neuropsychanalysis, 2010

PROFESSIONAL MEMBERSHIPS

Institute for Science, Society and Policy, University of Ottawa
Society for Neurology and Psychiatry, Germany
Society for Neuroscience, USA
Society for Analytical Philosophy, Germany
American Academy of Science, USA
Schizophrenia Society of Ontario Scientific Advisory, Canada

REVIEWER ACTIVITIES

Grants

Ministry of Research and Innovation, Early Research Awards Program
Medical Research Council (MRC), U.K.
Wellcome Trust, U.K.

Per ulteriori informazioni:

www.cedefop.eu.int/transparency
www.europa.eu.int/comm/education/index_it.html
www.eurescv-search.com

Swiss National Science Foundation (SNSF)
 Canadian Institutes of Health Research (CIHR)
 German Research Foundation (DFG), Germany
 National Research Foundation (NRF), South Africa
 National Institutes of Health (NIH), USA
 Federal Ministry of Education and Research (BMBF), Germany
 Israel Science Foundation (ISF)
 Canada Foundation for Innovation (CFI)
 Ontario Mental Health Foundation (OMHF)
 Journals
 Journal of Neurology and Neurological Disorders • Zeitschrift für
 Psychiatrie,
 Psychologie und Psychotherapie • Neuropsychoanalysis • World
 Journal of Psychiatry
 • The Neuropsychotherapist • Avant: Journal of the Philosophical-
 Interdisciplinary
 Vanguard • International Journal of Cognitive Inquiry • British Journal of
 Pharmacology
 • Social Neuroscience • Molecular Psychiatry • Neuron •
 Neuropsychopharmacology •
 Personality and Individual Differences • World Journal of Biological
 Psychiatry • Brain
 Research Reviews • Psychotherapy and Psychosomatics • Human
 Nature •
 Neuropsychologia • Psychological Science • Neurobiology of Aging •
 American Journal
 of Psychiatry • Brain Research • International Journal of Clinical
 Psychopharmacology •
 Trends in Cognitive Sciences • Cognitive Brain Research • Archives of
 General
 Psychiatry • Journal of Consciousness Studies • Journal of Psychiatry
 and Neuroscience
 • NeuroImage • Neuropsychology • Schizophrenia Research • Progress
 in
 Neuropsychopharmacology and Biological Psychiatry • Journal of
 Nuclear Medicine •
 Journal of Psychiatric Research • Cognitive and Behavioral Neurology •
 Psychiatry
 Research Neuroimaging • Philosophical Psychology • Consciousness
 and Cognition • [Descrivere tali competenze e indicare dove sono state acquisite.]

CAPACITÀ E COMPETENZE

ORGANIZZATIVE

*Ad es. coordinamento e amministrazione
 di persone, progetti, bilanci; sul posto di
 lavoro, in attività di volontariato (ad es.
 cultura e sport), a casa, ecc.*

CAPACITÀ E COMPETENZE

TECNICHE

*Con computer, attrezzature specifiche,
 macchinari, ecc.*

CAPACITÀ E COMPETENZE

ARTISTICHE

Musica, scrittura, disegno ecc.

ALTRE CAPACITÀ E COMPETENZE

*Competenze non precedentemente
indicate.*

PATENTE O PATENTI

ULTERIORI INFORMAZIONI

EXTERNAL RESEARCH FUNDING

(2014-2017). Functional MRS (fMRS): Establishment of Key Technology and Further Investigation into the Neurobiochemical Mechanism of Social Anxiety. National Natural Science Foundation of China \$100,000.

(2013-2016). The neuro-cognitive mechanism underlying the deficit of the projection of the self into the future in depressive disorder. National Natural Science Foundation of China. \$85,000.

(2013-2014). Northoff, G., Nai-Shing, Y., & Lane, T. Does neural activity during reward predict self-relatedness? National Science Council of Taiwan. TWD\$2,460,000 (New Taiwan dollars).

(2012-2014). Are there neural differences in the self in Eastern and Western depression? A cross-cultural imaging study. Canadian Institutes of Health Research (CIHR) China-Canada Joint Health Research Initiative. \$225,000.

(2011-2016). Neural and biochemical correlates of resting state activity and emotional processing in major depressive disorder – Multimodal imaging (fMRI, MRS and PET) during GABA- and glutamatergic intervention. Canadian Institutes of Health Research (CIHR). \$680,000.

(2011-2012). Neural and cardiac mu-opioid receptor binding and its modulation of interoceptive neural processing – A combined 11-c-carfentanil PET and fMRI study of brain and heart. University of Ottawa. \$35,000.

(2011-2012). Neural mechanisms underlying abnormal arousal and body perception in adolescents with anxiety disorders. University of Ottawa. \$22,000.

(2010-2013). Neural mechanisms underlying abnormal arousal and body perception in adolescents with anxiety disorders like social phobia and depression: How does hand-holding impact neural activity during interoceptive awareness? Hope for Depression Research Foundation, USA. \$100,000.

(2009-2015). Additional Infrastructure Grant. Canada Research Chairs (CRC) / Canada Foundation for Innovation (CFI). \$235,000.

(2009-2014). EJLB-CIHR Michael Smith Chair in Neurosciences and Mental Health, Endowment Grant. EJLB Foundation / Canadian Institutes of Health Research (CIHR). \$1,000,000.

(2009-2011). Depression: Pathophysiological and biochemical correlates of psychopathological symptoms. Swiss National Science Foundation (SNSF), Switzerland. \$145,000.

2014/04/17 5

(2009-2010). EJLB-CIHR Michael Smith Chair in Neurosciences and Mental Health, Establishment Grant. EJLB Foundation / Canadian Institutes of Health Research (CIHR).

\$300,000.
 (2009–2010). Institutional Grant. Canadian Institutes of Health Research – Institute of Neurosciences, Mental Health and Addiction (CIHR-INMHA). \$50,000
 (2008–2011). Functional imaging of the self in psychiatric disorders and psychotherapy. A longitudinal study. The Salus Foundation, USA. \$150,000.
 (2008–2011). Subcortical and cortical functional anatomy of reward and punishment in healthy and depressed subjects – A combined fMRI-MRS study. German Research Foundation (DFG), Germany. \$245,000.
 (2007–2011). Functional neuroanatomy and regional metabolism in depressed patients with quetiapine: An fMRI guided MRS study on a 7 Tesla scanner. AstraZeneca. \$155,000.
 (2007–2010). Functional imaging of emotion in depression. Stanley Medical Research Institute. \$140,000.
 (2007) Neural activity in bipolar depression during emotion perception and judgment. An fMRI study. Swiss National Science Foundation (SNSF), \$160,000.
 (2006–2010). Functional neuroanatomy in major depressive disorder before and after Duloxetine. Lilly Deutschland, Germany. \$75,000.
 (2006–2010). Neuropsychologie und Neurophysiologie der Depression. Swiss National Science Foundation (SNSF), Switzerland. \$50,000.
 (2006–2008). Functional neuroanatomy and regional metabolism of somatic-vegetative symptoms in major depression. Hope for Depression Research Foundation, USA. \$100,000.
 (2005). Emotionen Bei Depression – fMRI und MRS. Goldberg Stiftung. \$60,000.
 (2005). Kognitionen und Emotionen bei Depression. Gebert-Rüf Stiftung. \$48,000.
 (2004). Participant and co-applicant in PhD program “Integrative Neuroscience”. Otto-von-Guericke University Magdeburg, Germany. \$200,000.
 (2003). Janssen-Cilag. \$6,000.
 (2003). Stiftung für wissenschaftliche Forschung an der Universität Zuerich. \$16,000.
 (2001). Stiftung fuer wissenschaftliche Forschung an der Universitaet Zuerich. \$17,000.
 (2001). Pfizer. \$5,000.
 (1998-1999). Sonderforschungsbereich, Limbisches System. Otto-von-Guericke University Magdeburg 426 Teilprojekt C6, Germany. \$105,000.
 2014/04/17 6
 (1997). Graduierten Forschungs Stipendium der Novartis Stiftung für therapeutische Forschung. \$30,000.

PUBLICATIONS

202 peer-reviewed journal articles

h-index: 32 (32 articles have been cited at least 32 times each)

10 books authored

1 book edited

40 book chapters

Journal Articles (Peer-Reviewed)

1. Northoff, G., (2014) Localization versus Holism and Intrinsic versus Extrinsic Views of

the Brain – A Neurophilosophical Approach. *Minerva Psychiatric* (in press)

2. Lang, S., Duncan, N., Northoff, G (2014) Resting State fMRI: Review of Neurosurgical

Applications *Neurosurgery* (ePub ahead of print)

3. Northoff, G., (2014) The brain's intrinsic activity and inner time consciousness in

schizophrenia. *World Psychiatry* (in press)

4. Wiebking, C., Duncan, N.W., Tiret, B., Hayes, D.J., Marjanska, M., Doyon, J., Bajbouj, M.,

Northoff, G., (2013) GABA in the insula-a predictor of the neural response to

interoceptive awareness. *NeuroImage* (in press)

5. Zue, S.W., Li, D., Weng, X.C., Northoff, G., Li, D.W. (2014) Different neural

manifestations of two slow frequency bands in resting fMRI: A systemic survey at

regional, inter-regional, and network levels. (in press/Epub 2014 Jan 23)

6. Duncan, N., Wiebking, C., Munoz-Torres, Z., Northoff, G. (2014) How to investigate

neuro-biochemical relationships on a regional level in humans?

Methodological

considerations for combining functional with biochemical imaging.

Journal of

Neuroscience Methods 221 183-188 doi: 10.1016

7. Wiebking, C., Duncan, N.W., Qin, P., Hayes, D.J., Lyttelton, O., Gravel, P., Verhaeghe,

J., Kostikov, A.P., Schirmacher, R., Reader, A.J., Bajbouj, M., & Northoff, G. (2014).

External awareness and GABA—A multimodal imaging study combining fMRI and

[18F]flumazenil-PET. *Human Brain Mapping*. doi: 10.1002/hbm.22166

8. Han, S., Northoff, G., Vogeley, K., Wexler, B.E., Kitayama, S., K Varnum, M.E.W.

Cultural Neuroscience Approach to the Biosocial Nature of the Human Brain. *Annu.*

Rev. Psychol., 2013. 64:335-59 doi: 10.1146/annurev-psych-071112-054629

9. Northoff, G., (2013) Methofische Defizite in der Neuroethik.

Nervenarzt 84:1196-1202

doi 10.1007/s00115-013-3732-9

10. Northoff, G. (2013) Brain and self – A Neurophilosophical account. *Child and*

Adolescent Psychiatry and Mental Health 7:28 doi:10.1186/1753-200-7-28

2014/04/17 7

11. Nakao, T., Matsumoto, T., Shimizu, D., Morita, M., Yoshimura, S., Northoff, G., Morinobu, S., Okamoto, Y., Yamawaki, S., (2013) Resting state low-frequency fluctuations in prefrontal cortex reflect degrees of harm avoidance and novelty seeking: an exploratory NIRS study. *Systems Neuroscience* doi: 10.3389/fnsys.201300115
12. Qin, P, Duncan, N., Northoff, G (2013) Why and How is the Self-Related to the Brain Midline Regions? *Frontiers Human Neuroscience* 7:090 doi:10.3389/fnhum.2013.00909 eCollection 2013
13. Yuan, C., Zhang, Z., Wang, Z., Liao, W., Chen, G., Northoff, G., Lu, G., (2013) Impaired self-referential processing in mesial temporal lobe epilepsy: a functional MRI study. *Neuroscience Letter* 555:187-92 doi:10.1016/j.neulet.2013.09.054
14. de Greck, M., Bölter, A.F., Lehmann, L., Ulrich, C., Stockum, E., Enzi, B., Hoffmann, T., Tempelmann, C., Beutel, M., Frommer, J., Northoff, G (2013) Changes in brain activity of somatoform disorder patients during emotional empathy after multimodal psychodynamic psychotherapy. *Frontiers Human Neuroscience* 7:410. doi:10.3389/fnhum.2013.00410
15. Boeker, H., Richter, A., Himmighoffen, H., Ernst, J., Bohleber, L., Hofmann, E., Vetter, J., Northoff, G. (2013) Essentials of Psychoanalytic process and change: how can we investigate the neural effects of psychodynamic psychotherapy in individualized neuro-imaging? *Frontiers Human Neuroscience* 7:355 doi:10.3389/fnhum.2013.00355
16. Qin, P., Grimm, S., Duncan, N.W., Holland, G., Guo, J.S. Fan Y., Weigand, A., Baudewig, J., Bajbouj, M., Northoff, G. (2013) Self-specific stimuli interact differently than non-self-specific stimuli with eyes-open versus eyes-closed spontaneous activity in auditory cortex. *Frontiers Human Neuroscience* 7:437 doi/10.3389/fnhum.2013.00437
17. Ebisch, S.J.H., Mantini, D., Northoff, G., Salone, A., DeBerardis, D., Ferri, F., Ferro, F., Di Giannantonio, M., Romani, G., Gallese, V., (2013) Altered Brain Long-Range Functional Interactions Underlying the Link Between Aberrant Self-experience and Self-other Relationship in First-Episode Schizophrenia. *Schizophrenia Bulletin* doi: 10.1093/schbul/sbt153
18. Huang, Z., Dai, R., Wu, X., Yang, Z., Liu, D., Hu, J., Gao, L., Tang, W., Mao, Y., Jin, Y., Wu, X., Liu, B., Zhang, Y., Lu, L., Laureys, S., Weng, X., & Northoff, G. (2013). The self and its resting state in consciousness: An investigation of the vegetative state. *Human*

- Brain Mapping. doi: 10.1002/hbm.22308
19. Nakao, T., Matsumoto, T., Morita, M., Shimizu, D., Yoshimura, S., Northoff, G., Morinobu, S., Okamoto, Y., & Yamawaki, S. (2013). The degree of early life stress predicts decreased medial prefrontal activations and the shift from internally to externally guided decision making: an exploratory NIRS study during resting state and self-oriented task. *Frontiers in Human Neuroscience*. doi: 10.3389/fnhum.2013.00339
20. Ernst, J., Boeker, H., Hattenschwiler, J., Schubach, D., Northoff, G., Seifritz, E. & Grimm, S. (2013). The association of interoceptive awareness and alexithymia with neurotransmitter concentrations in insula and anterior cingulate. *Social Cognitive and Affective Neuroscience*. doi: 10.1093/scan/nst058F 2014/04/17 8
21. Balthazar, M.L.F., Pereira, F.R.S., Lopes, T.M., da Silva, E.L., Coan, A.C., Campos, B.M., Duncan, N.W., Stella, F., Northoff, G., Damasceno, B.P., & Cendes F. (2013). Neuropsychiatric Symptoms in Alzheimer's Disease are related to functional connectivity alterations in the salience network. *Human Brain Mapping*. doi: 10.1002/hbm.22248
22. Duncan, N.W., Wiebking, C., Tiret, B., Marjanska, M., Hayes, D.J., Lyttleton, O., Doyon, J. & Northoff, G. (2013). Glutamate concentration in the medial prefrontal cortex predicts resting-state cortical-subcortical functional connectivity in humans. *PLoS One*, 8(4): e60312. doi: 10.1371/journal.pone.0060312
23. Northoff, G. & Dampelmann, M. (2013). Schizophrenie – eine neuropsychodynamische Betrachtung. *Psychodynamische Psychotherapie*, 12, 14–23.
24. Wiebking, C. & Northoff, G. (2013). Neuroimaging in pedophilia. *Current Psychiatry Report*, 15, 351.
25. Hayes, D.J., Duncan, N.W., Wiebking, C., Pietruska, K., Qin, P., Lang, S., Gagnon, J., Gravel, P., Verhaeghe, J., Kostikov, A.P., Schirmacher, R., Reader, A.J., Doyon, J., Rainville, P., & Northoff, G. (2013). GABA_A receptors predict aversion-related brain responses: An fMRI-PET investigation in healthy humans. *Neuropsychopharmacology*, 38, 1438–1450.
26. Ernst, J., Northoff, G., Boeker, H., Seifritz, E. & Grimm, S. (2013). Interoceptive awareness enhances neural activity during empathy. *Human Brain Mapping*, 34(7), 1615–1624.
27. Northoff, G. (2013). What the brain's intrinsic activity can tell us about consciousness?

- A tri-dimensional view. *Neuroscience and Biobehavioral Reviews*, 37(4), 726-738.
28. Northoff, G. (2013). Gene, brains, and environment—genetic neuroimaging of depression. *Current Opinion in Neurobiology*, 23(1), 133–142.
29. Duncan, N.W. & Northoff, G. (2013). Overview of potential procedural and participant-related confounds for neuroimaging of the resting state. *Journal of Psychiatry and Neuroscience*, 38(2), 84–96.
30. Enzi, B., Doering, S., Faber, C., Hinrichs, J., Bahmer, J., & Northoff, G. (2013). Reduced deactivation in reward circuitry and midline structures during emotion processing in borderline personality disorder. *World Journal of Biological Psychiatry*, 14, 45–56.
31. Farinelli, M., Panksepp, J., Gestieri, L., Leo, M.R., Agati, R., Maffei, M., Leonardi, M., & Northoff, G. (2013). SEEKING and depression in stroke patients: An exploratory study. *Journal of Clinical and Experimental Neuropsychology*, 35(4), 348–358.
32. Duncan, N.W., Gravel, P., Wiebking, C., Reader, A.J., & Northoff, G. (2013). Grey matter density and GABA_A binding potential show a positive linear relationship across cortical regions. *Neuroscience*, 235, 226-231.
2014/04/17 9
33. Northoff, G. (2013). A look into emotions with neuroimaging. *Medicographia*, 35(3), 1–6.
34. Nakao, T., Bai, Y., Nashiwa, H., & Northoff, G. (2013). Resting-state EEG power predicts conflict-related brain activity in internally guided but not externally guided decision-making. *NeuroImage*, 66, 9-21.
35. Qin, P., Duncan, N.W., Wiebking, C., Gravel, P., Lyttelton, O., Hayes, D.J., Verhaeghe, J., Kostikov, A., Schirmacher, R., Reader, A.J., & Northoff, G. (2012). GABA_A receptors in visual and auditory cortex and neural activity changes during basic visual stimulation. *Frontiers in Human Neuroscience*, 6, Article 337.
36. Doering, S., Enzi, B., Faber, C., Hinrichs, J., Bahmer, J., & Northoff, G. (2012). Personality functioning and the cortical midline structures—An exploratory fMRI study. *PLoS ONE*, 7(11): e49956. doi:10.1371/journal.pone.0049956
37. Sliz, D., Smith, A., Wiebking, C., Northoff, G., & Hayley, S. (2012). Neural correlates of a single-session massage treatment. *Brain Imaging and Behavior*, 6(1), 77–87.
38. Enzi, B., Duncan, N.W., Kaufmann, J., Tempelmann, C., Wiebking, C., & Northoff, G. (2012). Glutamate modulates resting state activity in the perigenual anterior cingulate cortex—a combined fMRI-MRS study. *Neuroscience*, 227, 102–109.
39. Hayes, D.J. & Northoff, G. (2012). Common brain activations for

- painful and non-painful aversive stimuli. *BMC Neuroscience*, 13:60. doi: 10.1186/1471-2202-13-60
40. Northoff, G. (2012). From emotions to consciousness – a neuro-phenomenal and neuro-relational approach. *Frontiers in Psychology*, 3:303. doi: 10.3389/fpsyg.2012.00303
41. Northoff, G. (2012). Immanuel Kant's mind and the brain's resting state. *Trends in Cognitive Sciences*, 16(7), 356–359.
42. Northoff, G. (2012). Psychoanalysis and the brain – why did Freud abandon neuroscience? *Frontiers in Psychology*, 3:71. doi: 10.3389/fpsyg.2012.00071. 2012
43. Nakao, T., Ohira, H., & Northoff, G. (2012). Distinction between externally vs. internally guided decision-making: operational differences, meta-analytical comparisons and their theoretical implications. *Frontiers in Neuroscience*, 6:31. doi: 10.3389/fnins.2012.00031
44. Hu, Z., Liu, H., Weng, X. & Northoff, G. (2012). Is there a valence-specific pattern in emotional conflict in major depressive disorder? An exploratory psychological study. *PLoS ONE*, 7(2): e31983. doi: 10.1371/journal.pone.0031983
45. Northoff, G. (2012). Autoepistemic limitation and the brain's neural code. Comment on "Neuroontology, neurobiological naturalism, and consciousness: A challenge to scientific reduction and a solution." by Todd E. Feinberg. *Physics of Life Reviews*, 9, 38–
46. de Greck, M., Wang, G., Yang, X., Wang, X., Northoff, G., & Han, S. (2012). Neural substrates underlying intentional empathy. *Social Cognitive and Affective Neuroscience*, 7(2), 135–144.
47. Qin, P., Liu, Y., Shi, J., Wang, Y., Duncan, N.W., Gong, O., Weng, X., & Northoff, G. (2012). Dissociation between anterior and posterior cortical regions during self-specificity and familiarity: A combined fMRI–meta-analytic study. *Human Brain Mapping*, 33(1), 154–164.
48. Northoff, G., Wiebking, C., Feinberg, T., & Panksepp, J. (2011). The 'resting-state hypothesis' of major depressive disorder—A translational subcortical–cortical framework for a system disorder. *Neuroscience and Biobehavioral Reviews*, 35(9), 1929–1945.
49. Grimm, S., Ernst, J., Boesiger, P., Schuepbach, D., Boeker, H., & Northoff, G. (2011). Reduced negative BOLD responses in the default-mode network and increased self-focus in depression. *World Journal of Biological Psychiatry*, 12(8), 627–637.
50. Northoff, G., & Hayes, D.J. (2011). Is Our Self Nothing but Reward?

Biological

Psychiatry, 69(11), 1019–1025.

51. Wiebking, C., de Greck, M., Duncan, N.W., Heinzl, A., Templemann, C., & Northhoff,

G. (2011). Are emotions associated with activity during rest or interoception? An exploratory fMRI study in healthy subjects. *Neuroscience Letters*, 491(1), 87–92.

52. Northhoff, G. & Qin, P. (2011). How can the brain's resting state activity generate hallucinations? A 'resting state hypothesis' of auditory verbal hallucinations.

Schizophrenia Research, 127(1–3), 202–214.

53. Northhoff, G., Qin, P., & Feinberg, T.E. (2011). Brain imaging of the self – Conceptual, anatomical and methodological issues. *Consciousness and Cognition*, 20(1), 52–63.

54. Duncan, N.W., Enzi, B., Wiebking, C., & Northhoff, G. (2011). Involvement of glutamate in rest-stimulus interaction between perigenual and supragenual anterior cingulate

cortex: A combined fMRI-MRS study. *Human Brain Mapping*, 32(12), 2172–2182.

55. Northhoff, G. (2011). Self and brain: what is self-related processing? *Trends in Cognitive Sciences*, 15(5), 186–187. 2011.

56. Hasler G. and Northhoff, G. (2011). Discovering imaging endophenotypes for major depression. *Molecular Psychiatry*, 16, 604–619.

57. Supady, A., Voelkel, A., Witzel, J., Gubka, U., & Northhoff, G. (2011). How is informed consent related to emotions and empathy? An exploratory neuroethical investigation.

Journal of Medical Ethics, 37, 311–317.

58. Fan, Y., Duncan, N.W., de Greck, M., Northhoff, G. (2011). Is there a core neural network in empathy? An fMRI based quantitative meta-analysis. *Neuroscience and Biobehavioural Reviews*, 35(3):903–911.

59. de Greck, M., Scheidt, L., Bölter, A.F., Frommer, J., Ulrich, C., Stockum, E., Enzi, B.,

Templemann, C., Hoffmann, T., Northhoff, G. (2011). Multimodal psychodynamic psychotherapy induces normalization of reward related activity in somatoform

disorder. *World Journal of Biological Psychiatry*, 12(4), 296–308.

60. Fan, Y., Wonneberger, C., Enzi, B., de Greck, C., Ulrich, C., Templemann, B., Bogerts,

B., & Northhoff, G. (2011). The narcissistic self and its psychological and neural correlates: an exploratory fMRI study. *Psychological Medicine*, 41(8), 1641–1650.

doi:10.1017/S003329171000228X

61. Qin, P., Di, H., Lui, Y., Yu, S., Gong, Q., Duncan, N.W., Weng, X., Laureys, S., &

Northhoff, G. (2010). Anterior cingulate activity and the self in disorders of

- consciousness. *Human Brain Mapping*, 31(12), 1993–2002.
62. Alcaro, A., Panksepp, J., Witczak, J., Hayes, D.J., & Northoff, G. (2010). Is subcortical-cortical midline activity in depression mediated by glutamate and GABA? A cross-species translational approach. *Neuroscience and Biobehavioral Reviews*, 34(4), 592–605.
63. Sajonz, B., Kahnt, T., Marguiles, D.S., Park, S.Q., Wittmann, A., Stov, M., Ströhle, A., Heinz, A., Northoff, G., & Berman, F. (2010). Delineating Self-referential Processing from Episodic Memory Retrieval: Common and Dissociable Networks. *NeuroImage*, 50(4), 1606–1617.
64. de Greck, M., Enzi, B., Prösch, U., Gantman, A., Tempelmann, C., & Northoff, G. (2010). Decreased Neuronal Activity in Reward Circuitry of Pathological Gamblers during Processing of Personal Relevant Stimuli. *Human Brain Mapping*, 31(11), 1802–1812.
65. Northoff, G. (2010). Options for the treatment of febrile catatonia. *Journal of Psychiatry and Neuroscience*, 35(4): E5–E6. doi: 10.1503/jpn.100087
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2014/04/17 27

RECENT PRESENTATIONS

April 9, 2104: World Congress on Brain, Behaviour and Emotions, Montreal, Que. “The frontiers of the human mind: What makes us so special and unique?”

February 17, 2014: Lisbon, Portugal, New University of Lisbon, Faculty for Human and Social Sciences, - "Theories of Self"/ Neurophilosophy, Self & Brain

February 12, 2014: 18th Congress of the Italian Society of Psychopathology, Torino, Italy- The self and the time in evolution of psychiatric disorders

January 20, 2014: TVO's The Agenda with Steve Paikin/ TVO's "Mysteries of the Mind" series.

The relation between the unconscious and the conscious

January 10, 2014: Los Angeles, California, UCLA University-Culture, Brain, Development, and Mental Health workshop - *Psychosis and the Self: Understanding the Self: A cultural neuroscience approach.*

January 8, 2014: Taiwan, China-, Taipei Medical University/Neuro Brain and Mind Workshop – Neuro- philosophy and Cultural Pluralism

December 24, 2013: Affiliated Hospital of Hangzhou Normal University/Affiliated Hospital of Hangzhou Normal University – What Brain Imaging Can and Cannot tell us about self and consciousness

December 8, 2013: Neurophilosophy and Cultural Pluralism/ Brain and Mind Workshop, Taipei Medial University

December 6, 2013: From GABA to Consciousness – What brain imaging can tell us , Brain Research Centre, nation Yang-Ming University

November 27, 2013: German Society for Psychiatry, Psychotherapy, Psycsomatic and Neurosurgery 2013 (DSGPPN Kongress) “Is our brain a neuro-social organ? Neuroscientific and psychiatric observations” Berlin, Germany

October 31, 2013 Deutschland Funk (German Radio Station),Cologne, Germany- Connections between the Default Mode Network, Ego, Daydreams and Unconsciousness

October 17, 2013: Neuroscience and Neurophilosophy / Claremont, California

September 20, 2013: The Self and Its’ Brain from Neuroscience to Philosophy to Psychiatry/ 11th Congress of the Italian Society of Biological Psychiatry, Naples, Italy

June 20, 2013: GABA and the Transition from Resting State to Stimulus-Induced Activity / 19th Annual Meeting of the Organization for Human Brain Mapping, Seattle, USA

May 17, 2013: Multimodal Brain Imaging (fMRI, PET, MRS) Studies in Both Healthy and Depressed Subjects Address How GABA and/or GABA-A Receptors Mediate the Transition from Resting State to Stimulus-Induced Activity / Society of Biological Psychiatry 68th Annual Meeting, San Francisco, USA

March 22, 2013: Concepts and Facts in Neurophilosophy / Munich, Germany

2014/04/17 28

March 19, 2013: The Depressed Brain and Its Resting State / Chieti, Italy

March 16, 2013: Depression and the Self / Turin, Italy

March 11, 2013: The Self and Its Brain / University of Bonn, Germany
 December 12, 2012: Depression and the Self: A Resting State Hypothesis / Hiroshima University, Japan
 December 7, 2012: Neuroradiology Session / 3rd Joint International Conference of the Hong Kong College of Psychiatrists and the Royal College of Psychiatrists (UK), Hong Kong Academy of Medicine, Hong Kong
 December 10, 2012
 Neuroscience of Ethics Session
 Neuroscience and Psychiatry Session / 3rd Joint International Conference of the Hong Kong College of Psychiatrists and the Royal College of Psychiatrists (UK), Hong Kong Academy of Medicine, Hong Kong
 November 29, 2012: The Brain and Its Self: What Neuroimaging Can Tell Us / 2nd Conference on the Structure of Creditions, Graz, Germany
 November 24, 2012: Was können wir von der Neuropsychanalyse für die Schizophrenie lernen? / Tiefenbrunner Workshop zur Psychotherapie bei Psychosen, Rosdorf, Germany
 November 28, 2012 / 2nd Conference on the Structure of Creditions, Graz, Germany
 November 21, 2012 / Sparkassen-Forum 2012, Dusseldorf, Germany
 November 23, 2012 / Symposium Neuroaesthetics, Center for Art and Media, Karlsruhe, Germany
 December 6, 2012 / Taiwan
 The Self and Its Brain
 October 20, 2012: Understanding the Self: A Cultural Neuroscience Approach / University of California, Los Angeles, CA
 October 18, 2012: Brain and Subjectivity? Kant, Whitehead and the Hard Problem / Haddon Conference Center, Claremont School of Theology, Claremont, CA
 October 11, 2012: Wer lebt Mich ? Die Praxis der Individualität zwischen Fremd- und Selbstbestimmung Neurobiologische Voraussetzungen der Individualität / Theologische Fakultät, Berlin
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 September 27, 2012: Brain Between Biology and Culture: A Transdisciplinary Reflection / Sietar Forum, Berlin
 September 19, 2012: Resilient and Ready / Centurion Convention Center, Ottawa
 August 25, 2012: Brain Dynamics and Cognition Research Center, Kultur University, Istanbul
 2014/04/17 29
 June 21, 2012: Die neurobiologische Suche nach dem "Ich": Korrelate des selbstbezogenen Prozessierens
 Hanns Seidel Stiftung /Munich, Germany
 May 25, 2012: Mental Illness: New Understanding, New Treatments: Glutamate and GABA in Depression / CCNP Presidential Symposium, Vancouver

May 2, 2012: What is Neuroethics and Why is it Relevant? The Self and Its Brain: A Neuroethical and Neurophilosophical Account / University of Illinois, Chicago, IL
 March 30, 2012: Images of Depression, Psychopathology of the Self in Depression: Neuroimaging and Hypotheses on Abnormal Brain Activity / Salso Maggiore, Italy
 March 28, 2012: The Biopsychosocial Approach to Post-Stroke Rehabilitation (Innovation in Research and Clinical Practice): The Self and the Brain / Bellaria Hospital, Italy
 March 22, 2012: Neurology of Depression and Related Conditions: Is Depression a Resting State Disorder? / American Neuropsychiatric Association, New Orleans, LA
 March 21, 2012: When Neurologic Conditions Mimic Psychiatric Disorders: Catatonia / American Neuropsychiatric Association, New Orleans, LA
 February 2012: Grand Rounds Talk / University of Michigan, Ann Arbor, MI
 December 7, 15, 2011: The Self Between Neuroscience and Philosophy: A Cross-Disciplinary Approach / Research Center for Humanities and Social Sciences, National Cheng Kung University, Tainan City, Taiwan / Center for Neurobiology and Cognitive Science, National Taiwan University, Taiwan
 November 19, 2011: What Can the Brain Tell Us about Emotions? / Institute for Culture and Society, Universidad de Navarra, Pamplona, Spain
 October 6, 2011: Religion and Neuroscience / Haddon Conference Centre, Claremont School of Theology, Claremont, CA
 October 5, 2011: The Self Between the Brain's Resting State and the World's Different Cultures / University of Michigan, Ann Arbor, MI
 October 1, 2011: Neuropsychanalysis: How Can We Practice Such a Transdisciplinary Enterprise? / Arnold Pfeffer Center for Neuropsychanalysis, New York Psychoanalytic Institute, New York, NY
 September 10, 2011: Brain Imaging in PD's: A Neuropsychodynamic Account / New York Presbyterian Hospital, College of Cornell University, White Planes, NY
 July 18, 2011: Functional Neurosurgery / Krembil Neuroscience Grand Rounds, Toronto Western Hospital, Toronto
 June 17, 2011: Pathophysiology & Psychopathology of Depression / University of Ottawa, Roger Guindon Building, Ottawa
 2014/04/17 30
 May 31, 2011: Psychopathology and Pathophysiology of Depression. / Johns Hopkins University School of Medicine, Baltimore, MD
 April 5, 2011: Is the Brain's Resting State Activity Relevant? Neuroscientific and Neuropsychiatric Investigations / Bioimaging Sciences Seminar, Yale University, New Haven, CT

March 28, 2011: Emotions, Self and the Brain: Lessons from Functional Imaging /
 Rotman/KLARU Conference, Rotman Research Institute, Toronto
 March 15, 2011: Depression - Psychopathology and Pathophysiology /
 Technical University of
 Munich, Munich, Germany
 March 9, 2011: Psychotherapy and Psychosomatics / University of
 Vienna, Salzburg, Vienna
 March 4, 2011: The Self and Its Brain - A Relational Account /
 University of Parma, Bologna, Italy
 March 3, 2011: Principles of Neuronal Integration and Defense
 Mechanisms / University of Rome,
 Rome, Italy
 February 28–March 1, 2011: Neurobiological Conditions of Affectivity,
 Decisions and Virtues /
 19th Annual Pontifical University of the Holy Cross, School of
 Philosophy Conference: Neuroscience and
 Moral Action, Rome, Italy
 February 24, 2011: Transcultural Neuroscience and Psychiatry: A
 Comparison Between East and
 West / Workshop Ontario, Toronto
 February 18, 2011: What is Neurophilosophy? A Methodological
 Account / Winter Colloquium
 Series, Department of Philosophy, Carleton University, Ottawa
 January 23–24, 2011: Towards a New Pathophysiology of Depression:
 The Possible Role of
 Astocytic Glutamate Transport Dysfunction / Winter Conference on
 Brain Research (WCBR),
 Keystone, CO
 December 3–4, 2010: What is Self? Empirical and Conceptual
 Considerations / Studies of Social
 Cognitive Neuroscience: Understanding Self and Others in
 Sociocultural Contexts, Peking University,
 Beijing, China
 November 25, 2010: The Self and Its Brain: A Relational Approach /
 fMRI and PET Studies
 Lectures, Chinese University of Hong Kong, Hong Kong
 November 18, 2010: What is Neuropsychanalysis? / Scientific Meeting
 of the Ottawa
 Psychoanalytic Society, Ottawa
 November 16, 2010: Depression: What Brain Imaging Can Tell Us
 About Its Pathophysiology
 and Psychopathology / First National Research Forum for Military and
 Veteran Health, Queen's
 University, Kingston
 November 6–7, 2010: How can we Rehabilitate the Self in
 Neuropsychiatric Disorders? /
 Rehabilitaion and Neuropsychanalysis Conference, University of
 Bologna, Bologna, Italy
 2014/04/17 31
 October 28–31, 2010: How can the Infant called Neuropsychanalysis
 Grow into a Mature
 Adult? Conceptual and Empirical Considerations / Freud and
 Neurosciences Conference, Berlin,
 Germany
 October 21–22, 2010: Neuroscience and Humanities: A Successful
 Marriage? / Neuro-STS

Congress, University of Basel, Basel, Switzerland
 September 28–October 7, 2010: Brain Imaging and Its Self / Institute of
 Cognitive Science Studies
 (ICSS) Workshop, Institute of Cognitive Science Studies, Tehran, Iran
 September 24–25, 2010: Decision Making from Brain Imaging to Ethical
 Relevance / States of
 Mind: Neuroethics NET Workshop, Lake Simcoe
 September 8–10, 2010: Psychotherapy and the Brain / University of
 Zurich, Zurich, Switzerland
 September 2, 2010: Psychology and Pathophysiology of Depression /
 Bochum University,
 Bochum, Germany
 August 29–September 1, 2010: Glutamate and the Prefrontal Cortex in
 the Psychopathology of
 Depression: A Combined fMRI-MRS Approach / 23rd ECNP Congress,
 Amsterdam RAI Exhibition
 & Convention Centre, Amsterdam, The Netherlands
 July 23–25, 2010: How to Conduct Neuropsychanalysis? A
 Methodological Prescription for
 Research / 11th International Neuropsychanalysis Congress,
 University of Washington, Seattle, WA
 May 20–22, 2010: Default Network Activity and the Risk of Self-
 Pathology / 65th Annual
 Scientific Society of Biological Psychiatry Convention, New Orleans, LA
 May 5, 2010: Neuroscience and the Humanities: Can They Marry? /
 European Commission,
 Brussels, Belgium
 April 30–May 2, 2010: Neuroscience and the Methods to Research the
 Self / International Emotion
 in Therapy and Consultation Congress, Vienna, Austria
 April 30–May 2, 2010: Neuroscience and Philosophy: A Successful
 Marriage? / International
 Emotion in Therapy and Consultation Congress, Vienna, Austria
 March 25, 2010: Mind, Brain and Soul / Mary's Hospital, State
 Association and Psychotherapy,
 Bregenz, Austria
 March 23, 2010: Emotion Between Body and Mind: Religion and the
 Brain / University of
 Marburg, Marburg, Germany
 March 22, 2010: The Self and Its Brain / University of Rome, Rome,
 Italy
 March 17, 2010: Why Is There a Difference Between Brain and Self
 Rather Than None? /
 European Community, Brussels, Belgium
 February 28–March 3, 2010: Subcortical Regions and their Relevance
 in Emotion Processing in
 Depression. The Lateral Habenula: Its Role in Behavior and Psychiatric
 Disorders / The Banbury
 Center, Cold Spring Harbor Laboratory, Long Island, NY
 2014/04/17 32
 February 24–26, 2010: Psychopathology and Pathophysiology of
 Depression / Vanderbilt
 Psychiatric Hospital, Vanderbilt School of Medicine, Nashville, TN
 February 19, 2010: Psychopathology and Pathophysiology of
 Depression / Centre de Recherche en
 Neuropsychologie et Cognition (CERNEC), Montreal
 February 10, 2010: Neuroethics: Empirical and Conceptual

Considerations / Neuroethics
 Interinstitutional Seminar Series, McGill University, Montreal
 January 28, 2010: Neurophilosophy and Neuroscience: A Successful
 Marriage? / Andrew Brook
 Distinguished Lecture Series, Carleton University, Ottawa
 January 26, 2010: Imaging Techniques / University of Ottawa, Ottawa
 December 5, 2009: Depression and Functional Brain Imaging / 30th
 Annual Academic & Research
 Day, University of Ottawa, Ottawa
 November 25, 2009: Self and Neurophilosophy/ Body, Perception and
 Awareness: Motor and
 Multimodal Perspectives, Torun, Poland
 November 25, 2009: The Self and Its Body: Our "Material Me" / Invited
 keynote lecture at Body,
 Perception and Awareness: Motor and Multimodal Perspectives, Torun,
 Poland
 November 19, 2009: Is Schizophrenia a Disorder of the Self? Abnormal
 Attunement and Neural
 Contextualization: A Neurophenomenal Hypothesis. / Cambridge/Lutton
 International Conference
 on Mental Health, Cambridge, U.K.
 November 11, 2009: The Self and Its Brain / Berlin, Germany
 November 7, 2009: Brain Imaging of the Depressed Self / Open Minds
 Across Canada: Mental
 Health Symposium, Ottawa
 October 9 –11, 2009: The Intuition of the Self / Brainstorm and
 Neurons: Intuition, Creativity and
 Imagination. Tower of Senses Symposium, Nürnberg, Germany
 September 27 –30, 2009: Transcultural Differences and Empathy: An
 fMRI study / 2nd World
 Congress of Cultural Psychiatry Symposium on Cultural Neuroscience,
 Norica, Italy
 September 23 –26, 2009: What is Neuropsychanalysis? Mapping of a
 Novel Discipline / 20th
 World Congress on Psychosomatic Medicine, Torino, Italy
 September 22, 2009: The Self: Neuroscience & Neurophilosophy /
 International Summer School in
 Neuroscience and Philosophy of Mind, Alghero, Italy
 July 3–5, 2009: The Self in Neurobiology and Psychotherapy /
 Neurobiology of Psychotherapy:
 Relations and Complexity, University of Salzburg, Austria
 July 1, 2009: Pathophysiology and the Orbitofrontal Context in
 Catatonia / 9th World Congress of
 Biological Psychiatry, Paris, France
 2014/04/17 33
 June 28, 2009: Increased Self-Focus in Major Depressive Disorder is
 Related to Neural
 Abnormalities in Subcortical-Cortical Midline Structures / 9th World
 Congress of Biological
 Psychiatry, Paris, France
 June 28, 2009: Altered Negative BOLD Responses in the Default Mode
 Network During Emotion
 Processing in Depressed Subjects / 9th World Congress of Biological
 Psychiatry, Paris, France
 June 27, 2009: What Neuroscience and Neurophilosophy can Learn
 from Psychoanalysis:
 Neuropsychanalysis as Paradigmatic Discipline / 10th Annual

International Neuropsychoanalysis
Congress, Paris, France
June 15–19, 2009: How Can Neuroscience Support Phenomenological
and Psychotherapeutic
Understanding of Psychosis? / 16th International Symposium for the
Psychological Treatments of the
Schizophrenias and Other Psychoses, Copenhagen, Denmark
June 5, 2009: Is the Spirit in the Brain? A Neuroscientific and
Neurophilological Consideration /
Mind and Brain Symposium: Suggestions for Content Psyche and
Brain, Bern, Switzerland
May 24, 2009: The Brain and Its Self: The Central Role of Subcortical-
Cortical Midline Structures
/ Association for Psychological Science 21st Annual Convention, San
Francisco, CA
May 23, 2009: How can We Investigate Higher Phenomena Like the
Self in Functional Imaging?
Empirical Methodology for a First-Person Neuroscience /
IssueinfMRI.ca, University of Guelph,
Guelph
May 14–16, 2009: Comparison Between Animal Models and Human
Imaging in Major
Depressive Disorder: Convergences and Divergences / 64th Annual
Scientific Convention &
Program, Society of Biological Psychiatry, Vancouver
December 12, 2007: Functional Imaging of Emotions in Depression /
Grand Rounds, Department
of Psychiatry, University of Wuerzburg, Germany
December 5, 2007: What is Neuroethics? / University of Freiburg,
Freiburg, Germany
November 23, 2007: Can We Understand the Neuronal Mechanisms of
Subjective Experience? /
Invited honorary lecture at the Academy of Science and Art, Freiburg,
Germany
November 22, 2007: What is First-Person Neuroscience? / Annual
Meeting of the German
Association for Psychiatry and Neurology, Berlin, Germany
November 14, 2007: Neuroanatomy and Neurochemistry of Depression
/ Invited plenary speaker
at the opening of the Institute for Affective Neuroscience, University of
Haifa, Israel
November 3, 2007: What is Neuropsychoanalysis? Mapping of the Field
/ Invited honorary
lecture at the Arnold Pfeffer Institut for Psychoanalysis, New York, NY
October 22, 2007: Are Emotions Embedded? A Neurophilosophical
Perspective / International
Conference for Neurophenomenology, University of Florida, Gainesville,
FL
October 10, 2007: Neurochemical mechanisms in Depression / Grand
Rounds, University of
Zurich, Zurich, Switzerland
2014/04/17 34
October 6, 2007: Emotions and the Frontal Cortex / Annual Meeting of
the Society of
Neuropsychology, Bamberg, Germany
July 25, 2007: Self, Brain and Qualia: A Neurophilosophical Perspective
/ Annual Meeting of the

World Association for Consciousness, Budapest, Hungary
 September 20, 2007: What is Neurophilosophy? / Honourary lecture at
 the University of Munich,
 Munich, Germany
 July 21, 2007: Is There Abnormal Introjection in Depression? A
 Neuropsychanalytic Perspective
 / Annual Meeting of the Society of Neuropsychanalysis, Vienna,
 Austria
 July 18, 2007: Neural Mechanisms of Anhedonia in Depression /
 Inaugural meeting of the Hope for
 Depression Research Foundation (HDRF), Vienna, Austria
 July 6, 2007: Neuroimaging and Neuroethics in Forensic Psychiatry /
 Conference for Biology and
 Ethics in Forensic Psychiatry, University of Goettingen, Germany
 July 5, 2007: Emotion and Depression in Functional Imaging / Meeting
 of the World Association for
 Neuropsychology, Bilbao, Spain
 June 26, 2007: The Self and Its Cortical Midline Structures /
 Symposium: Self and the Brain:
 Association for the Scientific Study of Consciousness, Las Vegas, NV
 June 13, 2007: Functional Imaging in Diagnosis and Therapy of
 Depression / Grand Rounds,
 Vivantes Clinic for Psychiatry, Berlin, Germany
 June 8, 2007: fMRI in Psychiatry—Clinical Utility? / Society of Radiology
 of Germany, Dessau,
 Germany
 May 24, 2007: Do We Need a First-Person Neuroscience? /
 Symposium for
 Neuroscience and Psychoanalysis, American Psychiatric Association,
 San Diego, CA
 May 19, 2007: Neural Correlates of Anhedonia in Depression /
 Symposium for Emotions and
 Functional Imaging, Society for Biological Psychiatry, San Diego, CA
 May 8, 2007: Emotions and Their Neural Correlates in Our Brain /
 Meeting of the European Union
 for Emotions, University of Haifa, Israel
 May 1 -3, 2007: Self and the Brain/Depression and Functional
 Imaging/Emotions and Our Brain
 / Invited Honourary Lectures, University of Yerevan, Armenia
 April 25, 2007: Emotional Feelings: Neuroimaging and Neurophilosophy
 / Humboldt University,
 Berlin, Germany
 March 13, 2007: Kant and Neuroscience: A Neurotranscendental
 Approach / Symposium for
 Neurophilosophy, University of Ludwigsburg, Germany
 March 16, 2007: What is Consciousness? / Berlin Brandenburg
 Academy of Science, Berlin, Germany
 2014/04/17 35