

## **Curriculum vitae Erhard Suess, M.D.**

Assistant Professor for Neurology

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### **Summary**

Currently working as an assistant professor for neurology at the General Hospital, Clinic for Neurology, Medical University, Vienna. Clinical experience in end-to-end care of in- and-out patients over a period of 22 yrs., covering general neurology with special focus on brain malignancies, stroke, headache, neuro-degenerative diseases, dementia, multiple sclerosis, pain therapy and neuro-traumatology.

Specialisation in clinical use of perfusion and metabolic brain imaging using SPECT and PET as well as MRI. Long term experience in the application of various radionucleotide-tracers ( $^{99m}\text{Tc}$ -HMPAO,  $\beta$ -CIT, IBZM, F18-FDG,  $^{11}\text{C}$ -MET). Special focus on clinical validity of brain imaging.

Scientific work on evaluation of brain imaging techniques in clinical cases and retention kinetics of radiotracer (HMPAO). Application of imaging techniques in cognitive stimulation tasks in normals, clinical studies in neurological and psychiatric patients.

Basic knowledge and practice in genetics (DNA isolation, PCR techniques) and studies on Lymphoma and APC-resistance.

Special interest in cognitive neuroscience, epistemology and psychotherapy (systemic). Personal qualification in analytical solving of highly complex (medical, social, technological) problem constellations.

Lectures in neurology, cognitive neuroscience and psychotherapy.

Qualification in leadership. currently head of ward (general neurology, focus on vascular disorders, migraine and peripheral neurology), Co-head of out-patients department over a period of 10yrs, head of neuro-oncology unit for 8yrs. Supervision of assistant doctors and fellows. High capacity for teamwork.

July 2007 visiting professor at the Petit-Salpetrier, Paris, Dept of Neuro-oncology (Prof. Delattre).

### **Medical qualifications**

- 1997 Assistant Professor for neurology
- 1991 Specialist in neurology and psychiatry

## Clinical experience

- since 2004 Senior neurologist at the in-patient department, Clinic for neurology, Medical University (Head Prof E. Auff)
  - End-to-end medical treatment of in-patients
  - Training and supervision of assistant doctors
  - Clinical work focussed on management of CNS-malignancies, stroke and rehabilitation, migraine and other headaches, neuro-degenerative diseases, dementia, encephalomyelitis disseminata, neuropathies, inflammatory diseases, pain therapy, neuro-traumatology, dementia, brain death diagnostics
  
- 1995-2004 Clinical management of outpatients, Dept of Clinical Neurology (Head Prof. L Deecke)
  
- 1995-2003 Head of the out-patients oncological unit, Neurological Clinic
  
- since 1995 Continuous cooperation with the Dept. of Clinical and Experimental Oncology, Univ. Vienna (Prof. Ch. Zielinski, Prof Ch Marosi).
  - Specialisation in neurological implications of non-CNS-tumors as well as management of primary CNS malignancies.
  - Experimental application of dendritic cell therapy in gliomas
  
- 1985-1995 Residency at the Clinic of Neurology, University of Vienna, specialisation in Neurology and Psychiatry
  - 1991 Specialist in neurology and psychiatry
  - Medical attendance of in- and out-patients
  - Training in electrophysiology and sonography
  
- 1990-1991 Residency at the Clinic of Psychiatry, University of Vienna.
  - Training in general Psychiatry, intensive care unit, drug department, day-hospital. Clinical work with patients suffering mainly from affective disorders, schizophrenia, drug abuse.
  
- 1990 Dept of Nuclear Medicine, 2nd Medical Clinic, Univ. Vienna
  
- 1989-1990 Residency Intensive Care Unit, 2nd Medical Clinic, University of Vienna
  
- since 1985 Clinical and scientific work in the Dept. of Neuro-Nuclear-Medicine, Clinic for Neurology and Clinic for Nuclear Medicine, PET Department

- Clinical investigations using static and dynamic brain scans, bone scintigraphy, cisternography, brain SPECT in patients with cerebrovascular diseases, brain tumors, dementia etc, as well as in psychiatric diseases
  - Supervising and training of young colleagues in methods and interpretation of PET results
- 1985 postgradual training at the Neurological Hospital Maria-Theresien-Schlössl, Vienna

**Studies:**

- University of Vienna, Medical Faculty, M.D. in 1984
- University of Vienna, Philosophical Faculty, Theory of Science Department (Prof E. Oeser) without graduation 1979-1984

**Additional qualifications:**

- Special training in radiation protection (Atomic Inst. Vienna).1985
- Trained in clinical electrophysiology and neuro-sonography
- Genetic counselling
- Specialist in brain-death-diagnostics
- Trained psychotherapist (systemic therapy)
- Longterm experience as neurological consultant in several private hospitals in Vienna.
- Since 1991 running a private office as a clinical neurologist and systemic psychotherapist.

**Scientific work:**

- Since 1985 Dept. of Neuronuclear Medicine, Clinic for Neurology, University of Vienna (Prof. I. Podreka, founded by Prof. W.-D. Heiss) and Clinic for Nuclear Medicine, Medical University Vienna, PET department. (Prof Dudczak, Prof. Kletter)
- Experimental works on the retention mechanism of <sup>99m</sup>Tc-HMPAO. Clinical and cognitive task studies using SPECT.
  - Clinical interpretation of PET investigations using <sup>18</sup>F-FDG and <sup>11</sup>C-Methionine as standard tracers in clinical routine.
  - Scientific evaluation of PET results of a data pool from the period 1998-2004, containing approx 840 cases with brain tumours, 450cases with epilepsy and 100 cases with dementia.
  - Cooperation with the Depts of Neuropathology, Neurosurgery, Oncology, Epilepsy Monitoring Unit Clinic for Neurology, Medical Univ. Vienna.

- Cooperation with Max Planck Inst Cologne (Prof Heiss), invitation as visiting scientist Feb/march 2005.
- 1993-1995 Dept. of Molecular Biology and Dept of Haematology (Prof. Schwarzingler), Clinical Inst of Medical Chemistry, University of Vienna (Prof. Ch. Mannhalter).
  - Works on genetics of Lymphoma, establishing PCR for bcr-abl
  - Study on APC-resistance in stroke
  - Basic DNA techniques
- 1991 Research Laboratory St Anna Childrens Hospital (Prof. P. Ambros), Vienna.
  - Works on cellculture, cytogenetics, immunohistochemistry (Neuroblastoma)
- 1982-1985 Ludwig Boltzmann Institute for Neurobiology (Prof. K. Jellinger)
  - Works on the mongolian gerbil epilepsy-model in cooperation with the Inst for Electronics, Technical University Vienna

## Lectures

- Numerous reports at international neurological meetings (peer reviewed).
- Lectures in Clinical Neurology, Medical University Vienna
- Guest lectures at the University of Vienna, philosophical faculty, Dept of Theory of Science about theories of medical systems as well as compliance.
- Guest lecture at the University of Applied Arts on visual deprivation and cognition.
- Workshop on neuroscience and psychotherapy, held at the Congress of Systemic Therapy, Vienna 2006

## Publications

1. BAUMGARTNER CH., PODREKA I., **SUESS E.**, STEINER M., DEECKE L. rCBF distribution during walking. REISNER, BINDER, DEISENHAMMER (ED): ADVANCES IN NEUROIMAGING, Wr. Medizinische Akademie; 1989: 97-101

2. BAUMGARTNER CH., PODREKA I., **SUESS E.**, STEINER M., MÜLLER CH., LANG W., DEECKE L. Reproducibility of absolute rCBF values estimated with IMP-SPECT. AICHNER, GERSTENBRAND, GRCEVIC (ED): NEUROIMAGING II, G. Fischer Verl.; 1989: 49-54
3. GOLDENBERG G., PODREKA I., STEINER M., **SUESS E.**, DEECKE L. Pattern of regional cerebral blood flow related to visual and motor imagery: results of emission computerized tomography. DENIS, ENGELKAMP, RICHARDSON (Eds): Cognitive and Neuropsychological Approaches to Mental Imagery, Martinus Nijhoff Publishers, Dordrecht; 1988: 363-373
4. GOLDENBERG G., PODREKA I., STEINER M., WILLMES K., **SUESS E.**, DEECKE L. Regional cerebral blood flow patterns in visual imagery. NEUROPSYCHOLOGIA 27; 5;1989: 641-664
5. GOLDENBERG G., PODREKA I., **SUESS E.**, DEECKE L. The cerebral localization of neuropsychological impairment in Alzheimer's disease: a SPECT study. J NEUROL 263; 1989: 131-138
6. GOLDENBERG G., **SUESS E.**, PODREKA I., STEINER M., LANG W., DEECKE L. Tc-HMPAO SPECT for detection of rCBF changes caused by employment of imagery. REISNER, BINDER, DEISENHAMMER (ED): ADVANCES IN NEUROIMAGING, Wr. Medizinische Akademie; 1986: 95-98
7. HEIMBERGER K., SAMEC P., PODREKA I., BINDER H., **SUESS E.**, REISNER T., DEECKE L., STEGER G., HIESMAYR M., DITTRICH C., HORACZEK A., ZIMPFER M. Reversible Blut-Hirn-Schrankenöffnung in der Chemotherapie maligner Gliome. (Reversible blood-brain-barrier-disruption in the chemotherapy of malignant gliomas). WIEN KLIN WOCHENSCHR 11; 1987: 385-388
8. LALOUSCHEK W., **SUESS E.**, AULL S., SCHNIDER P., UHL F., ZEILER K. Clinical and laboratory data in heterozygous factor V Leiden mutation positive versus negative patients with TIA and Minor Stroke (Letter). STROKE Vol 26, 10; 1995: 1963-1964
9. LANG W., LANG M., PODREKA I., STEINER M., UHL F., **SUESS E.**, MÜLLER CH., DEECKE L. DC-potential shifts and regional cerebral blood flow reveal frontal cortex involvement in human visuomotor learning. EXP BRAIN RES 71; 1988: 353-364
10. LANG W., LANG M., PODREKA I., **SUESS E.**, DEECKE L. Involvement of the frontal cortex in a conflicting response selecting task: evidence obtained by cortical DC potential shifts and regional cerebral blood flow. MOTOR DISTURBANCES II; 1990: 99-107
11. LANG W., LANG M., PODREKA I., **SUESS E.**, MÜLLER CH., STEINER M., DEECKE L. Joint studies of event related brain potentials and Tc-99m-HMPAO-SPECT on sensory guided hand tracking. MAURER (ED): Topographic Brain Mapping of EEG and Evoked Potentials, Springer Verl.; 1989: 159-163
12. LANG W., LANG M., PODREKA I., **SUESS E.**, MÜLLER CH., STEINER M., DEECKE L. Functional Imaging (Tc 99m-HMPAO SPECT) and Movement-Related Potentials in a joint Study of Human Visuomotor Learning. J CEREBR BLOOD F METABOL Vol 7, suppl 1; 1987: 314
13. LANG W., LANG M., PODREKA I., **SUESS E.**, MÜLLER CH., STEINER M., DEECKE L. Joint studies of event related brain potentials and Tc 99m-HMPAO SPECT on sensory guided hand tracking. REISNER, BINDER, DEISENHAMMER (ED): ADVANCES IN NEUROIMAGING, Wr. Medizinische Akademie; 1989: 91-96
14. LANG W., PODREKA I., **SUESS E.**, MÜLLER CH., ZEITLHOFER J., DEECKE L. Single photon emission computerized tomography during and between seizures. J NEUROL 235; 1988: 277-284
15. MUSALEK M., PODREKA I., **SUESS E.**, NUTZINGER D., PASSWEG V., STROBL R., WALTER H., BAUMGARTNER CH., LESCH O.M. Neurophysiological Aspects of Auditory Hallucinations. PSYCHOPATHOLOGY 21; 1988: 275-280

16. MUSALEK M., PODREKA I., WALTER H., **SUESS** E., PASSWEG V., NUTZINGER D., STROBL R., LESCH O.M. Regional Brain Function in Hallucinations: A Study of Regional Cerebral Blood Flow with 99m-Tc-HMPAO-SPECT in Patients with Auditory Hallucinations, Tactile Hallucinations and Normal Controls. *COMPR PSYCHIATR* 30; 1989: 99-108
17. PODREKA I., BAUMGARTNER CH., **SUESS** E., MÜLLER CH., BRÜCKE T., LANG W., HOLZNER F., STEINER M., DEECKE L. Quantification of Regional Cerebral Blood Flow with IMP-SPECT. *STROKE* 20; 1989: 183-191
18. PODREKA I., GOLDENBERG G., BAUMGARTNER CH., LANG W., STEINER M., **SUESS** E., BRÜCKE T., ASENBAUM S., DEECKE L. HMPAO uptake in young normal subjects: gender differences and hemispheric asymmetries. *J CEREBR BLOOD F METABOL* Vol 9, suppl 1; 1989: 202
19. PODREKA I., LANG W., **SUESS** E., WIMBERGER D., STEINER M., GRADNER W., ZEITLHOFER J., PELZL G., MAMOLI B., DEECKE L. Hexa-methyl-propylene-amine-oxime (HMPAO) Single Photon Emission Computed Tomography (SPECT) in Epilepsy. *Brain Topography* 1; 1988: 55-60
20. PODREKA I., MAMOLI B., LESCH O., **SUESS** E., WIMBERGER D., MAYR N., HAVELEC L., MÜLLER CJ., STEINER M., DEECKE L. IMP-SPECT bei Temporallappenepilepsie und Halluzinose. HÖFER, BERGMANN (ED): *Radioaktive Isotope in Klinik und Forschung*, Engermann Verl. Bd 17; 1986: 637-644
21. PODREKA I., **SUESS** E., BRÜCKE T., MÜLLER CH., LANG W., AUFF E., MASCHALL I., STEINER M., DANIELCZIK W., DEECKE L. SPECT Untersuchungen mit 99m-Tc-Hexamethyl-Propylene-Amin-Oxim (99mTc-HMPAO) beim Parkinsonsyndrom und bei Demenz. *NUCLEARMED* 26; 1987: 96-99
22. PODREKA I., **SUESS** E., WIMBERGER D., LANG W., PELZL G., MAMOLI B., ZEITLHOFER J., SCHMIDBAUER M., MÜLLER CH., DEECKE L. Darstellung von Durchblutungsmustern bei Epilepsie mittels 99m-Tc-HMPAO-SPECT. HÖFER, BERGMANN (ED): *Radioaktive Isotope in Klinik und Forschung*, Engermann Verl.; 1988: 269-244
23. PODREKA I., **SUESS** E., GOLDENBERG G., STEINER M., MÜLLER CH., LANG W., NEIRINCKX RD., DEECKE L. Initial Experience with Technetium 99m HMPAO Brain SPECT. *J NUCL MED* 11; 1987: 1687-1696
24. **SUESS** E., PODREKA I., WIMBERGER D., MAMOLI B., MÜLLER CH., MAYR N., BRÜCKE T., BAUMGARTNER CH., DEECKE L. Detection of epileptic foci with Tc-99m-HMPAO SPECT. REISNER, BINDER, DEISENHAMMER (ED): *ADVANCES IN NEUROIMAGING*, Wv Medizinische Akademie; 1986: 99-103
25. **SUESS** E., GOISER P. Miniaturized Eight-Channel Telemetry System for Long-Term EEG Registration of Humans and Laboratory Animals. *EUR NEUROL* 25; suppl 2; 1986: 53-55
26. **SUESS** E., HUCK S. (99m)Tc-d,l-HMPAO Accumulation in Cultured Neurons. *J CEREBR BLOOD F METABOL* Vol 9, Suppl 1; 1989: 735
27. **SUESS** E., HUCK S., REITHER H., HÖRTNAGL H., ANGELBERGER P. Uptake mechanism of (99m)Tc-d,l-HMPAO in cell cultures of the dissociated postnatal rat cerebellum. *J NUCL MED* 1992; 33: 108-114
28. **SUESS** E., MALESSA S., UNGERSBÖCK K., KITZ P., PODREKA I., HEIMBERGER K., HORNYKIEWICZ O., DEECKE L. (99mTc)-d,l-Hexamethylpropyleneamine oxime (HMPAO) Uptake and Glutathione Content in Brain Tumors. *J NUCL MED*; 1991; 32: 1675-1681
29. **SUESS** E., MALESSA S., UNGERSBÖCK K., SCHMIDBAUER M., KITZ P., PODREKA I., REISNER TH., MÜLLER CH., LANG W., HORNYKIEWICZ O., DEECKE L. 99m-Tc-HMPAO Aufnahme und Glutathiongehalt zerebraler Tumoren. HÖFER, BERGMANN (ED): *Radioaktive Isotope in Klinik und Forschung*, Schattauer Verl.: 1988: 512-515

30. **SUESS E.**, PODREKA I., BAUMGARTNER CH., WIMBERGER D., MAMOLI B., MÜLLER CH., GOLDENBERG G., LANG W., STEINER M., DEECKE L. (I 123)p iodoamphetamine and Tc-99m-HMPAO brain SPECT in partial complex seizures. *Neurologia et Psychiatria* 11, Suppl 1; 1988: 39-42
31. **SUESS E.**, PODREKA I., GOLDENBERG G., LANG W., STEINER M., MÜLLER CH., DEECKE L. Regional Tc-99m-HMPAO distribution in pattern recognition: a visual cognitive stimulation study. REISNER, BINDER, DEISENHAMMER (ED): *ADVANCES IN NEUROIMAGING*, Wr Medizinische Akademie; 1989: 83-89
32. **SUESS E.**, WESSELY P., KOCH G., PODREKA I. 99m-Tc-HMPAO SPECT in migraine with aura. J OELESEN (Ed): *Migraines and other Headaches; Frontiers in Headache Research*, Ravens Press Vol 1; 1991: 65-70
33. **SUESS E.**, MAROSI CH., BAUMGARTNER G. Therapeutische Prinzipien bei zerebralen Tumoren. ZIELINSKI CH., BRODOWICZ TH (ED): *Aktuelle medikamentöse Therapie maligner Erkrankungen in Österreich; European School of Oncology, Vienna Office*; 2000: 179-188
34. **SUESS E.** Die gesellschaftliche Dimension von Kompetenz und ihre Bedeutung für die Integration von westlicher und traditionell chinesischer Medizin. *Dt Ztschr f Akup.*; Jg 44, 1; 2001: 29-34
35. WALTER H., PODREKA I., STEINER M., **SUESS E.**, BENDA N., HAJI M., LESCH OM., MUSSALEK M., PASSWEG V. A contribution to Classification of Halluzinations. *PSYCHOPATHOLOGY* 23; 1990: 97-105
36. WALTER H., PODREKA I., STROBL R., **SUESS E.**, LESCH OM., STEINER M. 99m-Tc-HMPAO in hallucinating patients. REISNER, BINDER, DEISENHAMMER (ED): *ADVANCES IN NEUROIMAGING*, Wr Medizinische Akademie; 1986: 104-109
37. WALTER H., PODREKA I., **SUESS E.**, SALTU B., LESCH MO. Von der Lateralisationstheorie zur Frontalisationstheorie der Hypnose. *Hypnose und Kognition* Bd 10, Heft 2, 1993
38. WESSELY P., **SUESS E.**, KOCH G., PODREKA I. 99m-Tc-HMPAO SPECT in migraine without aura. J OELESEN (Ed): *Migraines and other Headaches; Frontiers in Headache Research*, Ravens Press Vol 1; 1991: 203-207
39. WIMBERGER D., REISNER T., **SUESS E.**, BINDER H., LANG W., NEUHOLD A., ZEITLHOFER J. Diagnostic value of EEG, CT, SPECT and MRI in detection of epileptic foci in patients with partial seizures. CALABRO, LEONARDI (ED): *COMPUTER AIDED NEURORADIOLOGY*, Edizioni Internazionali; 1987: 591-696
40. ZEITLHOFER J., MAYR N., **SUESS E.**, WIMBERGER D. Neurophysiological Investigation in Narcoleptic Patients. *Neurologia et Psychiatria* Vol 11, Suppl 1; 1988: 117-119
41. **SUESS E.**, Sehen und Gesehenwerden. In *Der visuelle Entzug*, Tandon Rini (Hrsg), MVB GMBH, Frankfurt am Main, 2006, 62-76.
42. ULRICH-PUR H., BAUR M., ULRICH-PUR S., HASSLER M., FAZENY-DÖRNER B., DIECKMANN K., **SUESS E.**, DITTRICH Ch.; MAROSI Ch., HEIMBERGER K., Long –Term Survival with Blood-Brain-Barrier Disruption Therapy in Patients with high-grade Gliomas. *Acta Oncologica*, 2007, In print.
43. NOVOTNY C., ASENBAUM S., PELOSCHEK Ph., **SUESS E.**, HOFFMANN M., SPECT/CT fusion imaging in radionuclide cisternography for localisation of liquor leak sites. 2006, Submitted.