



Prof. Dr. Mathias Schreckenberger

Professor, Head of the Department of Nuclear Medicine

Department of Nuclear Medicine
University Medical Center
Johannes Gutenberg-University Mainz
Langenbeckstr. 1
55131 Mainz

Phone: +49 (0) 6131 17 7124

E-mail: Mathias.schreckenberger@unimedizin-mainz.de

Expertise

PET imaging of the dopaminergic system in addiction and substance abuse, PET imaging of the central opioidergic system in sensory perception and pain disorders, Imaging of the neurobiological correlates of personality traits (opioidergic, dopaminergic, and cannabinoidergic transmission)

Vita

Since 10/2008	Full Professor (W3) and Head of the Department of Nuclear Medicine, University Medical Center Mainz
2006 – 2008	Head (prov.) of the Department of Nuclear Medicine, University Medical Center Mainz
2003	Associate Professor (C3) of Nuclear Medicine
2000 – 2006	Deputy Head of the Department of Nuclear Medicine, University Medical Center Mainz
1999 – 2000	Senior Physician of Nuclear Medicine, University Medical Center, RWTH Aachen
1994 – 1999	Professional training in Nuclear Medicine, University Medical Center, RWTH Aachen
1991 – 1994	Postdoctoral Fellowship in Neuroanatomy, Neuro-ophthalmology and Neurology, Universities of Erlangen-Nürnberg and Mainz

Publications

Miederer I, Uebbing K, Röhrich J, Maus S, Bausbacher N, Krauter K, Weyer-Elberich V, Lutz B, Schreckenberger M, Urban R. (2017) Effects of tetrahydrocannabinol on glucose uptake in the rat brain. *Neuropharmacology* 117:273-281.

Schneider M, Kasanetz F, Lynch DL, Friemel CM, Lassalle O, Hurst DP, Steindel F, Monory K, Schäfer C, Miederer I, Leweke FM, Schreckenberger M, Lutz B, Reggio PH,



- Manzoni OJ, Spanagel R (2015) Enhanced Functional Activity of the Cannabinoid Type-1 Receptor Mediates Adolescent Behavior. *J Neurosci* 35:13975-88.
- Miederer I, Maus S, Zwiener I, Podoprygorina G, Meshcheryakov D, Lutz B, Schreckenberger M (2013) Evaluation of cannabinoid type 1 receptor expression in the rat brain using [^{18}F]MK-9470 microPET. *Eur J Nucl Med Mol Imaging* 40:1739-47.
- Mueller C, Klega A, Buchholz HG, Rolke R, Magerl W, Schirmmayer R, Schirmmayer E, Birklein F, Treede RD, Schreckenberger M (2010) Basal opioid receptor binding is associated with differences in sensory perception in healthy human subjects: a [^{18}F]diprenorphine PET study. *Neuroimage* 49:731-7.
- Fehr C, Yakushev I, Hohmann N, Buchholz HG, Landvogt C, Deckers H, Eberhardt A, Kläger M, Smolka MN, Scheurich A, Dielenheis T, Schmidt LG, Rösch F, Bartenstein P, Gründer G, Schreckenberger M (2008) Association of low striatal dopamine D2 receptor availability with nicotine dependence similar to that seen with other drugs of abuse. *Am J Psychiatry* 165:507-14.

Coordinating Functions

Member of the Board for radiation protection in medicine (LÄK Rheinland-Pfalz)

Member of the Board for quality supervision ("Ärztliche Stelle") in Nuclear Medicine (LÄK Rheinland-Pfalz)

Awards, Grants and Honor

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| 2000 | Research Award of the BGN (Bav. Soc. Nucl. Med.) |
| 2010 | Full Member „Akademie gemeinnütziger Wissenschaften zu Erfurt“ |

Memberships

Member of the Brain Imaging Council (Society of Nuclear Medicine and Molecular Imaging)

Member of the Board for Neurological Nuclear Medicine (German Society of Nuclear Medicine)