



# Spiegelneuronen - Mirror Neurons (German Edition)

*Michael Kempmann*

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Studienarbeit aus dem Jahr 2005 im Fachbereich Medien / Kommunikation - Theorien, Modelle, Begriffe,

Note: 1,0, Heinrich-Heine-Universität Düsseldorf (Medien- und Kulturwissenschaft), Veranstaltung:

Kommunikation - kulturwissenschaftlich, 9 Quellen im Literaturverzeichnis, Sprache: Deutsch,

Anmerkungen: Die Arbeit stellte kompakt die Spiegelneuronen vor, auf deren Grundlage Verstehen und interpersonale Kommunikation als neuronalen Nachahmungsprozess erklärt. Über die Bereiche

Handlungserkennung, Spracherkennung und Empathie legen die Ergebnisse der Spiegelneuronenforschung

eine Shared Manifold of Intersubjectivity Hypothese vor. Insgesamt erklären die Spiegelneuronen das

Handlungslernen durch Imitation in einem direct matching mechanism über motorische Repräsentationen im

Hirn. , Abstract: In dieser Hausarbeit widme ich mich neuen neurobiologischen Erkenntnissen über die

Hirnaktivität bei der Erkennung von Handlungen, sowie - teilweise nicht genau nachgewiesenen -

Hypothesen über den Einfluss von Spiegelneuronen auf die Erkennung von Sprache und der Evolution

sprachlicher Kommunikation. Schließlich soll auch auf Empathie eingegangen werden, ein Bereich, in dem

das Spiegelneuronensystem die neurale Basis von Intersubjektivität sein soll.

Spiegelneuronen sind Neuronen, die im Gehirn bei Beobachtung von Handlungen die selben Potenziale auslösen, wie bei der Ausführung gleicher Handlungen. Entdeckt wurden solche Potenziale erstmals in den 1990er Jahren von den italienischen Neurologen Vittorio Gallese und Giacoma Rizzolati an der Neurobiologischen Fakultät der Universität Parma. Sie unternahmen Versuche an Affen und entdeckten zufällig Potenziale, die schon bei der Beobachtung von Handlungen feuerten. Während andere Affen oder der Experimentator die Versuchsaufgabe (Greifen einer Nuss) lösten bzw. aufbauten, waren bei den nicht aktiven, nur beobachtenden Affen Potenziale zu messen. Diese Affen hatten noch Elektroden an den Messpunkten und die Aufzeichnungsgeräte waren

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