

**Studienmodell Physiologie (SMP) - Multimedia Database Information
and Communication System for the Teaching of Medicine**

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(Abstract)

A teaching-oriented multimedia information system **STUDIENMODELL PHYSIOLOGIE** utilizing advanced technology has been developed, based on Personal Computers (PS 2/MS DOS) connected to audio/video (disk, tape) and digital (WORM) stores, and interconnected by network (Token-Ring). The system provides a multimedia database, capable of text analysis, for storage of all kinds of data (alphanumerical, video pictures and films, images digitized via scanner, recordings of analogue signals, programs for data acquisition and simulation), and user-friendly software for input, editing, retrieval and communication. An authoring software permits the compiling of any such material (including modules from other authoring systems linked to SMP) into structures of menus, and combining these with free database access.

This concept is expected to open new ways for audio-visual (AV) and computer assisted

instruction (CAI) by a): incorporation of all types of data, with direct transfer from the scientific to the teaching level, b) full integration of AU and CAI into personal teaching through the possibility to compose teachware locally and individually for lecture demonstrations, practical and self-instruction, c) free access of students to data and program bases for individual learning with information systems, d) transferability of the system concept to other medical and non-medical fields of education.

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