SL-005 The Application of Learning Theory : From the Laboratory to the Real World

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講演の内容

The principles of learning and memory have been studied in the laboratory for over 100 years. Thus, it is surprising how little of our considerable knowledge concerning learning processes has actually been applied to human problems outside of the laboratory. Both moral and financial pressures are now demanding researchers apply their findings to human problems. My laboratory uses animal models to first establish principles of learning and the parameter space in which they are most apt to occur. Then we use normal undergraduates determine whether these principles apply to humans in a laboratory setting and if so which parameter values maximize their effects. Finally, the principles are applied to people outside the laboratory. As examples of such translational programmatic research, I will review how contemporary research in learning informs both education and psychotherapy, as well as the challenges confronting implementation of these principles.

略歴

Professor Miller studied physics at Massachusetts Institute of Technology, earning his MS in elementary particle physics, before turning to psychology. His MS in psychology was in social psychology. He then earned his Ph.D in experimental/physiological psychology at Rutgers University in 1969. During ten years on faculty at the City University of New York, he rose to the rank of full professor. In 1979 he moved to the State University of New York at Binghamton, where he is currently a distinguished professor. Dr. Miller has chaired the department there and presently administers the doctoral program in psychology. He has served as president of the Pavlovian Society, the Eastern Psychological Association, and the Division of Experimental Psychology within the American Psychological Association. Additionally, he has chaired grant review sections at the National Institutes of Health. Dr. Miller has served on numerous editorial boards and was editor-in-chief of *Animal Learning & Behavior*. Currently he is the incoming editor of the *Journal of Experimental Psychology: Animal Behavior Processes*. He has trained over 25 PhDs and many postdoctoral fellows. His research has been funded by the American government for the last 43 years. He has authored over 370 articles, chapters, and books. His current research focuses on learning and memory at both the theoretical and applied levels.

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