

Some Key Scientists in the History of Animal Learning and Cognition

Name	Location	Book	Task	Nature of Observation	Contribution	Theory	Definition of Stimulus	Nature of Change
George Romanes	England	<u>Animal Intelligence</u> (1888)	Anecdotes from people	Collection of stories	First mention of evolution, outlined basic issues			
C. Lloyd Morgan	England	<u>Introduction to Comparative Psychology</u> (1894)	Observations of his terrier		Careful experimental observations and Morgan's Canon			
Edward Thorndike	America	<u>Animal Intelligence: Experimental Studies</u> (1911)	Puzzle Box	Gradual acquisition of skill, following initial trial and error behavior	First systematic experimental analysis of learning in animals	strengthening of S-R Bond	Context	Contiguity of S-R and reward
Ivan Pavlov	Russia	<u>Conditioned Reflexes</u> (1927)	Salivary Conditioning	Anticipatory responding to CS following its pairing with US	classical conditioning, established relations to physiology	Stimulus substitution	elementary simple, absolute	temporal contiguity of CS and US
Wolfgang Kohler	Germany	<u>The Mentality of Apes</u> (1924)	Detour and Insight Problems	Descriptions of rapid learning	beyond simple associationism insight learning	reorganization of perceptual field	figure-ground relations, relative	Not specified, physical arrangement important