HOW DOES THE SYNAPSE WORK?

Group:		Members:		
The	is located between the er	d of the axon and the neuron, r	muscle, or gland to	o which the neuron
is sending a signal	. When an	reaches the axon	bulb at the end o	f the axon, it
triggers	containing	to fuse with the		on the
side	of the synapse. The	then release the	into the s	ynapse by the
process of	The	then cross the synapse by the p	rocess of	and bind with
on t	he gates, lo	cated on the men	nbrane. This cause	es the gates to
open and	ions to flow in to the	e next cell, inducing other	channels	to open and
triggering an actio	n potential. The	that are opened when	bind to	them would be
considered	mediated (you ma	ay also see the term ligand-med	liated) as opposed	I to those that are
opened because o	f the change of charge, wl	nich might be labeled	mediated (ye	ou may also see the
term voltage-med	iated).			
If the	remain in the	, they would repeatedly trig	gger	by
attaching to the _	, which are ma	ade of proteins, and opening the	e ga	tes. To prevent
this, they must be	removed. In the case of _	, which triggers op	ening of the gates	in neuromuscular
synapses, an	called	catalyzes the breakdown of	the	. Another
mechanism is	, which is the tra	nsport of the neurotransmitter	back through the	
neuron membrane	e, to be repackaged and us	sed again.		
Because each prot	tein takes on a unique sha	pe, are specific to	different	, and act like
a lock and key ope	ening different gates. Diffe	rent neurons have receptors or	them that bind to	o different
neurotransmitters	s. Any one neuron may ha	ve one type of re	ceptor.	