

Table 2: Synaptic proteome publications and respective datasets used in this study. “# genes” refers to the number of proteins, mapped to human Entrez IDs identified in the study. Studies are sorted based on presynapse, postsynapse, synaptosome and ascending depending on the year of publication. Studies highlighted with * contain two datasets.

Study	Year	Reference	Region	Species	# genes
MORCIANO	2005	[1]	presynapse	rat	85
BURRE	2006	[2]	presynapse	rat	157
MORCIANO	2009	[3]	presynapse	rat	308
GORINI	2010	[4]	presynapse	mouse	49
GRONBORG	2010	[5]	presynapse	rat	613
BOYKEN	2013	[6]	presynapse	rat	414
WILHELM	2014	[7]	presynapse	rat	1158
BRINKMALM	2014	[8]	presynapse	mouse	68
WEINGARTEN	2014	[9]	presynapse	mouse	467
WALIKONIS	2000	[10]	postsynapse	rat	29
PENG	2004	[11]	postsynapse	rat	325
SATOH	2002	[12]	postsynapse	mouse	45
YOSHIMURA	2004	[13]	postsynapse	rat	435
FARR	2004	[14]	postsynapse	rat	71
JORDAN	2004	[15]	postsynapse	mouse and rat	390
LI	2004	[16]	postsynapse	rat	137
TRINIDAD	2005	[17]	postsynapse	mouse	234
CHENG	2006	[18]	postsynapse	rat	288
COLLINS	2006	[19]	postsynapse	mouse	717
DOSEMESI	2006	[20]	postsynapse	rat	113
DOSEMESI	2007	[21]	postsynapse	rat	548
TRINIDAD	2008	[22]	postsynapse	mouse	2150
SELIMI	2009	[23]	postsynapse	mouse	61
FERNANDEZ	2009	[24]	postsynapse	mouse	292
BAYES	2010	[25]	postsynapse	human	1441
BAYES	2012	[26]	postsynapse	mouse	1545
SCHWENK	2012	[27]	postsynapse	unknown	34
DISTLER PSD1*	2014	[28]	postsynapse	mouse	3545
DISTLER PSD2*	2014	[28]	postsynapse	mouse	2092
BAYES	2014	[29]	postsynapse	human	1141
UEZU	2016	[30]	postsynapse	mouse	1111
FOCKING	2016	[31]	postsynapse	human	2026
FILIOU	2010	[32]	synaptosome	mouse	2778
DAHLHAUS	2011	[33]	synaptosome	mouse	638
ZIV synapse*	2013	[34]	synaptosome	rat	185
ZIV full*	2013	[34]	synaptosome	rat	2447
BIESEMANN	2014	[35]	synaptosome	mouse	157
CHANG	2015	[36]	synaptosome	human	2076
DISTLER	2014	[28]	synaptosome	mouse	4475

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