

Compound Mutant Mice Relevant to A-T Research

*Not a comprehensive list

Updated March 2016

Genotype		References
Atm and oxidative stress proteins		
Atm -/-	SOD1 transgene	Peter, Y et al., EMBO J. 2001 20 :1538-46
Atm -/-	SOD1 -/-	Ziv, Y et al., Hum Mol Genet 2005 14 :2929-2943
Atm and other DNA repair proteins		
Atm -/-	DNA-PKcs -/-	Gurley, KE and Kemp, CJ Curr Biol 2001 11 :191-4 Sekiguchi, J et al., Proc Natl Acad Sci USA 2001 98 :3243-8 Gladdy, RA et al., Mol Cancer Res 2006 4 :311-8
Atm -/-	Gadd45a -/-	Chen, Y et al., Protein Cell 2014 5 :80-89
Atm -/-	Hus1 various defects	Balmus, G et al., Hum Mol Genet 2012 21 :3408-20
Atm -/-	Lig4 -/-	Lee, Y et al., Genes Dev 2000 14 :2576-80
Atm -/-	XLF^{Δ/Δ}	Zha, S et al., Nature 2011 469 : 250-254
Atm -/-	Parp-1 -/-	Menisser-de Murcia, J et al, Mol Cell Biol 2001 21 :1828-32
Atm -/-	Parp-2 -/-	J. Menissier-de Murcia, unpublished data
Atm -/-	Rad50s/s	Morales, M et al., Genes Dev 2005 19 :3043-3054
Atm -/-	Mih1 -/-	Ziv, Y et al., Hum Mol Genet 2005 14 :2929-2943
Atm -/-	Mih1 +/-	
Atm +/- (het)	Mih1 -/-	
Atm +/- (het)	Mih1 +/-	
Atm -/-	Rad52 -/-	Treuner, K et al., Oncogene 2004 23 :4655-61
Atm -/-	Rad54 -/- and/or Rad54B -/-	Kirshner, M et al., DNA Repair 2009 8 :253-61
Fancg -/-	Atm -/-	Kennedy, RD et al., J Clin Invest 2007 117 :1440-9
Atm -/-	chaos 1	Shima, N et al., Mol Cell Biol 2004 24 :10381-9
Atm -/-	chaos 3	Wallace, MD et al., Oncogene 2014 33 : 3688-95
Atm -/- VAV	Nbs1 deltaB/deltaB	Balestrini, A et al., Mol Cancer Res 14 : 185-195
Atm and immune related proteins		
Atm -/-	Rag1 -/-	Liao, MJ and Van Dyke, T, Genes Dev 1999 13 :1246-50 Petiniot, LK et al., Mol Cell Biol 2002 22 :3174-7
Atm -/-	Rag2 -/-	Petiniot, LK et al., Mol Cell Biol 2002 22 :3174-7 Shiloh, Y and Kastan, MB, Adv Cancer Res 2001 83 :209-54
Atm -/-	Rag1 -/- TCR transgene	Liao, MJ and Van Dyke, T, Genes Dev 1999 13 :1246-50
Atm -/-	TCR transgene	Chao, C et al., J Immunol 2000 164 :345-9
Atm and telomerase		
Atm -/-	Terc -/-	Wong, KK et al., Nature 2003 421 :643-8
Atm -/-	mTR -/-	Qi, L et al., Cancer Res 2003 63 :8188-96
Atm and other proteins or mutations		
Atm -/-	Wip1 -/-	Darlington, Y et al., Oncogene 2012 31 :1155-65
Atm -/-	Casp2 -/-	Puccini, J et al., Proc Natl Acad Sci USA 2013 110 :19920-5
Atm -/- or Atm +/- (het)	ApoE -/-	Schneider, JG et al., Cell Metab 2006 4 :377-89 Wu, D et al., J Lipid Res 2005 46 :1380-7
Atm -/-	p21 -/-	Barlow, C et al., Nat Genet 1997 17 :462-6 Wang, YA et al., Proc Natl Acad Sci USA 1997 94 :14590-5
Atm -/-	p53 -/-	Barlow, C et al., Nat Genet 1997 17 :462-6 Westphal, CH et al., Nat Genet 1997 16 :397-401
Atm -/-	Eμ-D1T286A cyclin D1 transgene	Vaites, LP et al., Oncogene 2014 33 :129-33
Atm -/-	p19ARF -/-	Kamijo, T et al., Cancer Res 1999 59 :2464-9
Atm -/-	Harlequin Pcd8Hq	Susan Ackerman, personal communication
Atm +/- (het)	Apc(MIN)/+	Karabinis, ME et al., Carcinogenesis 2001 22 :343-6
Atm -/-	pink-eyed unstable mutation	Bishop, AJ et al., Cancer Res 2000 60 :395-9