Appendix 2. A Comparative Look at the Fold Change of Gene Expression at the Peak of Photoreceptor Death between Models of Retinal Degeneration. The table presents some of the genes and pathways often observed in microarray studies on various models of photoreceptor degeneration, including naturally-occurring mutations, genetically-engineered, and injury-induced models. The selected microarray studies is by no mean an exhaustive list. (*rd3* (P21), our study; *rd1* (P10) [2]; *rd2* (P21) [2]; *Rds* (P21) [23]; *Bbs4-/-* (5mo) [24]; *Rs1h-/y* (P14) [25]; *prCAD-/-* (1mo) [5]; *Nrl-/-* (4mo) [26]; *Nxnl1-/-* (P40) [27]; Light-damaged (LD, 24hrs) [2, 5]; Retinal detachment (24 hrs) [22, 28]; Hyperoxia [7])

Gene Symbol		**Models of Retinal Degeneration**										
Gene Symbol	*rd3*	*rd1*	*rd2*	*Rds*	*Bbs4 -/-*	*Rs1h -/y*	*prCAD -/-*	*Nrl -/-*	*Nxnl1 -/-*	**LD**	**Detach- ment**	**Hyperoxia**
Apoptosis												
Bcl3	33.3									5.3		3.7
Xiap	-2.9			-2.9								
Glial activation												
Gfap	11.4					1.9	5.0					7.2
Vim	2.2					1.8				3.9		
Immune response												
C1qa	7.6		6.9									
C1qb	4.9	3.0	12.0			1.8						
C1qc	7.8		7.2									
C3	4.4									3.9	2.4	10.4
CfI	10.8							2.0				
Lcn2	8.3							2.2		17.9	2.5	
Lrrc2	8.8						3.8			6.2		
Serping1	5.7							2.1		3.9		
Stat3	4.0						2.1					
Tnfrsf1a	2.8										2.3	

	1	2	3	4	5	6	7	8	9	10
Lipid metabolism										
Pla2g7	-2.3		-4.5							
Pnpla3	-2.4						-2.3			
Ppap2c	-3.7								-3.0	
Photoreceptor function										
Dmd	-2.3			-6.1						-5.4
Gnat1	-2.3			-3.9						
Gnb3	2.9								2.0	
Guca1b	-2.1			-6.4						
Opn1sw	-2.2			-20.4					-3.1	
Prph	4.6		2.0							
Rorb	-2.6		-2.9							
Stress response										
Cebpd	16.6	3.2	2.5		2.1	5.7			19.3	
Cp	5.2								8.2	
Edn2	165.2			5.8		11.4		35.0	12.9	
Egr1	2.3	11.8	9.0		2.0				2.6	
Gadd45b	4.5								4.8	3.4
Mt1	4.1					2.0			5.0	
Mt2	5.5					2.5			7.5	
Serpina3n	7.3			4.7					5.7	
Socs3	10.7					2.9			13.5	