Corrigendum

Palmitic acid mediates hypothalamic insulin resistance by altering PKC- θ subcellular localization in rodents

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Original citation: *J Clin Invest.* 2010;120(1):394. doi:10.1172/JCI36714C1.

Citation for this corrigendum: *J Clin Invest.* 2011;121(1):456. doi:10.1172/JCI45846.

In the Methods section titled “Fatty acid infusion,” the dose of fatty acids delivered centrally was given incorrectly. The correct sentence appears below.

The cannula was connected via a polyethylene catheter to a subcutaneous osmotic minipump (Alza Corporation) filled with either palmitic or oleic acid (equimolar concentrations, 50 μ mol/l; Sigma-Aldrich) or vehicle (PBS) for continuous infusion over 3 days.

The authors regret the error.

Corrigendum

Lighting a candle in the dark: advances in genetics and gene therapy of recessive retinal dystrophies

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Original citation: *J Clin Invest.* 2010;120(9):3042–3053. doi:10.1172/JCI42258.

Citation for this corrigendum: *J Clin Invest.* 2011;121(1):456–457. doi:10.1172/JCI45855.

During the preparation of this manuscript, a number of references in Table 1 were given incorrectly and references 142 through 150 were omitted from the table and the reference list. The correct table and additional references appear below.

The authors regret the error.

142. Batten ML, et al. Lecithin-retinol acyltransferase is essential for accumulation of all-trans-retinyl esters in the eye and in the liver. *J Biol Chem.* 2004; 279(11):10422–10432.
143. Liu L, Gudas LJ. Disruption of the lecithin:retinol acyltransferase gene makes mice more susceptible to vitamin A deficiency. *J Biol Chem.* 2005;280(48):40226–40234.
144. Ruiz A, et al. Somatic ablation of the *Lrat* gene in the mouse retinal pigment epithelium drastically reduces its retinoid storage. *Invest Ophthalmol Vis Sci.* 2007;48(12):5377–5387.
145. Batten ML, et al. Pharmacological and rAAV gene therapy rescue of visual functions in a blind mouse model of Leber congenital amaurosis. *PLoS Med.* 2005;2(11):e333.
146. D'Cruz PM, et al. Mutation of the receptor tyrosine kinase gene *Mertk* in the retinal dystrophic RCS rat. *Hum Mol Genet.* 2000;9(4):645–651.
147. Duncan JL, et al. Inherited retinal dystrophy in *Mer* knockout mice. *Adv Exp Med Biol.* 2003;533:165–172.
148. Haider NB, et al. Mutation of a nuclear receptor gene, *NR2E3*, causes enhanced S cone syndrome, a disorder of retinal cell fate. *Nat Genet.* 2000;24(2):127–131.
149. Corbo JC, Cepko CL. A hybrid photoreceptor expressing both rod and cone genes in a mouse model of enhanced S-cone syndrome. *PLoS Genet.* 2005;1(2):e11.
150. Webber AL, et al. Dual role of *Nr2e3* in photoreceptor development and maintenance. *Exp Eye Res.* 2008;87(1):35–48.
151. Mears AJ, et al. *Nrl* is required for rod photoreceptor development. *Nat Genet.* 2001;29(4):447–452.

Table 1

Nonsyndromic recessive retinal dystrophy genes, their associated human phenotypes, animal models, and gene therapy studies

Human gene	Recessive phenotypes	Cellular expression in the retina	Mouse model (variant)	Other recessive animal models (variant ^A)	Gene refs.	OMIM no. (gene)	OMIM no. (disease)	Gene therapy model	Gene therapy refs.
<i>ABCA4</i>	STGD1, CRD, RP	Cones and rods	KO	No	73	601691	248200, 604116, 601718	Mouse	40, 49
<i>ADAM9</i>	CRD	RPE	KO	No	74	602713	612775	No	
<i>AIPL1</i>	LCA	Rods	KO, KD	No	75–77	604392	604393	Mouse	32, 72
<i>CACNA2D4</i>	CD	Unknown	C57BL/10 (c.2367insC)	No	78	608171	610478	No	
<i>CEP290</i>	LCA, RP	Cones and rods	rd16 (Δex35–39)	Cat (c.6960+9T→G)	79, 80	610142	611755	No	
<i>CERKL</i>	CRD, RP	Cones and rods	KO	No	81	608381	608630, 268000	No	
<i>CNGA1</i>	RP	Rods	No ^B	No		123825	612095	No	
<i>CNGA3</i>	ACHM, CD	Cones	KO	No	82	216900	268000	No	
<i>CNGB1</i>	RP	Rods	KO	No	83, 84	600724	600724	No	
<i>CNGB3</i>	ACHM, CRD	Cones	KO	Dog	85, 86	605080	262300	Mouse	87
<i>CRB1</i>	LCA, RP	Müller cells	KO, KI (p.C249W), rd8	No	88–90	604210	600105	No	
<i>CRX</i>	LCA	Cones and rods, bipolar cells	KO	No	91	602225	120970, 268000	No	
<i>EYS</i>	RP, CRD	Cones and rods	No mouse ortholog	No		612424	602772	No	
<i>GNAT2</i>	ACHM	Cones	Cpfl3 (p.D200N)	No	92	139340	139340	Mouse	93
<i>GUCY2D</i>	LCA	Cones and rods	KO	rd chicken (Δex4–7)	94, 95	600179	204000	Mouse	23, 96
<i>IDH3B</i>	RP	Unknown	No	No		604526	612572	No	
<i>KCNV2</i>	CD	Cones and rods	No	No		607604	610024	No	
<i>LCA5</i>	LCA	Cones and rods	No ^B	No		611408	604537	No	
<i>LRAT</i>	LCA, RP	RPE	KO	No	142–144	604863	613341	Mouse	104, 145
<i>MERTK</i>	LCA, RP	RPE	KO	RCS rat	106, 146	604705	604705	Rat	106, 107
<i>NR2E3</i>	RP, ESCS	Rods	KO, rd7	No	147–149	604485	268100, 604485, 611131	No	
<i>NRL</i>	RP	Rods	KO	No	150	162080	162080	No	
<i>PDE6A</i>	RP	Rods	Chemically induced	rd3 dog	97, 98	180071	180071	No	
<i>PDE6B</i>	RP	Rods	rd1, rd10	Dog	99–101	180072	180072	Mouse	41, 56, 113–116
<i>PDE6C</i>	ACHM, CD	Cones	cpfl1	No	102	600827	600827, 613093	No	
<i>PRCD</i>	RP	Cones and rods, RPE, GCL	No	Dog	103	610598	610599	No	
<i>PROM1</i>	RP	Cones and rods	KO	No	105	604365	612095	No	
<i>RBP3</i>	RP	Cones, rods, RPE, Müller	KO	No	108	180290	NA	No	
<i>RD3</i>	LCA	Cones and rods	rd3	No	109	180040	610612	No	
<i>RDH12</i>	LCA	Rods	KO	No	104, 110	608830	612712	No	
<i>RDH5</i>	CD	RPE	KO	No	111, 112	601617	601617	No	
<i>RGR</i>	RP	RPE	KO	No	117–119	600342	600342	No	
<i>RHO</i>	RP	Rods	KI, KO	No	117, 118, 120, 121	180380	180380, 184380	Mouse	133
<i>RLBP1</i>	RP, RPA	RPE, Müller	KO	No	122	180090	1800990, 607476	No	
<i>RP1</i>	RP	Cones and rods	KO	No	123, 124	603937	180100	No	
<i>RP2</i>	XL RP	Ubiquitous	No ^B	No		300757	312600	No	
<i>RPE65</i>	LCA, RP	RPE	KO, KI (p.R91W), rd12	Dog	125–128	180069	204100	Mouse, dog	34, 36, 57, 138–140
<i>RPGR</i>	XL RP, XL CRD	Cones and rods	KO	XLPR1, A2 dogs	129, 130	312610	300029, 304020, 300455	No	
<i>RPGRIP1</i>	LCA, CRD	Cones and rods	KO	Dog	131, 132	605446	605446, 608194	Mouse	141
<i>SAG</i>	RP	Rods	No ^B	No		181031	181031	No	
<i>SPATA7</i>	LCA, RP	GCL, INL, PR	No ^B	No		609868	609868, 604232	No	
<i>TULP1</i>	LCA, RP	Cones and rods	KO	No	134, 135	602280	602280	No	
<i>USH2A</i>	RP, USH2	Cones and rods, OPL	KO, RBF/DnJ	No	136, 137	608400	608400	No	

^AVariants listed only if they are not null alleles. ^BES cells available at EUCOMM (<http://www.eucomm.org/>) or KOMP (<http://www.komp.org>). OMIM: <http://www.ncbi.nlm.nih.gov/omim>; ECSC, enhanced S syndrome; KD, knockdown; KI, knock-in; NA, not available.