Correction

NEUROSCIENCE. For the article "Activity-dependent neurotransmitter-receptor matching at the neuromuscular junction," by Laura N. Borodinsky and Nicholas C. Spitzer, which appeared in issue 1, January 2, 2007, of *Proc Natl Acad Sci USA* (104:335–340; first published December 26, 2006; 10.1073/pnas.0607450104), the authors note that in Fig 1*B Upper*, the label at the left that reads "Stage 40" should instead read "Stage 28." The corrected figure and its legend appear below.

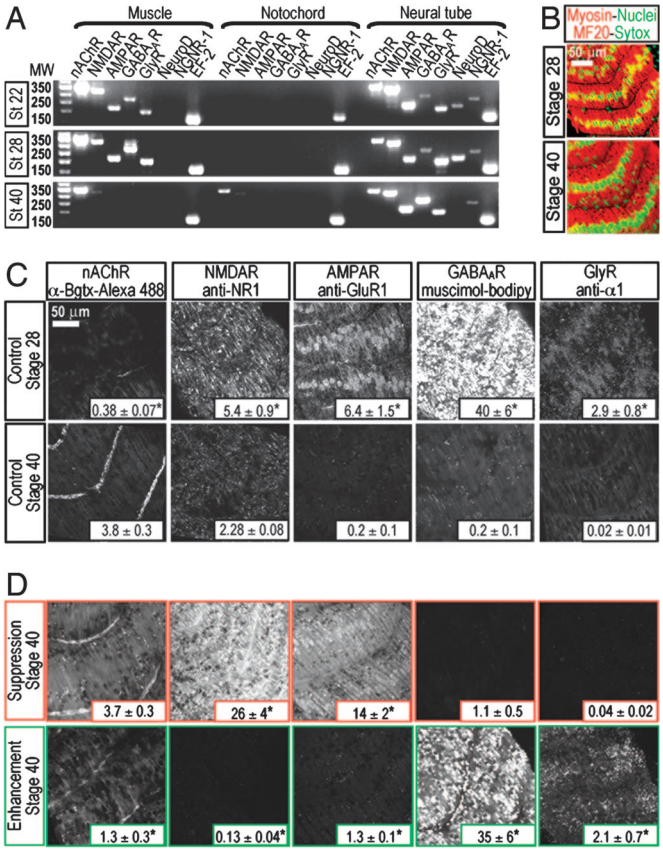

Fig. 1. Expression of nAChR, NMDAR, AMPAR, GABA$_A$R, and GlyR transcripts and protein in skeletal muscle during normal development and after alterations in neuronal activity. (*A*) RT-PCR was used for detection of subunit transcripts of five neurotransmitter receptors in muscle, notochord, and neural tube at three stages of development. Tissue-specific RNA was analyzed from embryos at 1 day (stage 22, *Top*) and 1.3 days (stage 28, *Middle*) and from larvae at 3 days (stage 40, *Bottom*). Primers were designed from predicted *Xenopus* sequences for nAChRα1, NR1, GluR1, GABA$_A$Rβ2, and GlyRα1 subunits and for neuronal markers NeuroD and neurogenin-related protein 1 (NGNR-1). (*B* and *C*) Multiple classes of transmitter receptors are expressed in embryonic skeletal muscle *in vivo*. Whole mounts from 1.3-day (stage 28) embryos and 3-day (stage 40) larvae were labeled for myosin and nuclei (*B*) and for nAChR, NMDAR, AMPAR, GABA$_A$R, and GlyR (*C*), with probes noted above each column. Images of chevrons of mononucleate muscle cells are representative Z series projections obtained from confocal stacks of 20 optical sections of 62,500 μm^2 area. (*C Insets*) Percentage of labeled volume. Values are mean ± SEM, $n \geq 5$ embryos for each probe. *, $P < 0.001$ when compared with stage 40 for each probe. (*D*) Alterations of neuronal Ca^{2+} spike activity change *in vivo* expression of transmitter receptors in larval skeletal muscle. Whole mounts from activity-manipulated 3-day (stage 40) larvae were labeled for transmitter receptors as in *C*. Manipulation of activity was achieved by implanting beads impregnated with 30 μM tetrodotoxin, 200 nM calcicludine, 10 μM GVIA ω-conotoxin, and 10 μM flunarizine (*Upper*, Ca^{2+} spike activity suppression) or with 1 mM veratridine (*Lower*, Ca^{2+} spike activity enhancement). Specimens were stained and labeling was quantified (*Insets*) as in *C*. Values are mean ± SEM for $n \geq 5$ embryos for each probe. *, $P < 0.001$ when compared with stage 40 control for each probe.

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Retractions

BIOPHYSICS. For the article "Structure of the multidrug resistance efflux transporter EmrE from *Escherichia coli*," by Che Ma and Geoffrey Chang, which appeared in issue 9, March 2, 2004, of *Proc Natl Acad Sci USA* (101:2852–2857; first published February 17, 2004; 10.1073/pnas.0400137101), the authors wish to note the following: "We have recently discovered that the structure was determined in the incorrect hand. An in-house data reduction program introduced a change in sign for anomalous differences. This program, which was not part of a conventional data processing package, converted the anomalous pairs (I+ and I−) to (F− and F+), thereby introducing a sign change that resulted in the structure being reported in the wrong hand. The Protein Data Bank file (PDB ID code 1S7B) has been moved to the archive of obsolete PDB entries. The structures will be recalculated from the original data, using the proper sign for the anomalous differences, and the new Cα coordinates and structure factors will be deposited. We sincerely regret any confusion that this error may have caused and, in particular, we regret that subsequent research efforts might have been unproductive as a result of our originally published findings. We therefore wish to retract this article."

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MICROBIOLOGY. For the article "The herpesvirus glycoproteins B and H·L are sequentially recruited to the receptor-bound gD to effect membrane fusion at virus entry," by Tatiana Gianni, Cristina Forghieri, and Gabriella Campadelli-Fiume, which appeared in issue 39, September 26, 2006, of *Proc Natl Acad Sci USA* (103:14572–14577; first published September 14, 2006; 10.1073/pnas.0606127103), the authors wish to note the following: "Although the original data support the conclusions of the article, Figs. 3, 4, and 6 contain some duplicated and misplaced bands and do not reflect the original data. The authors regretfully retract the paper."

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