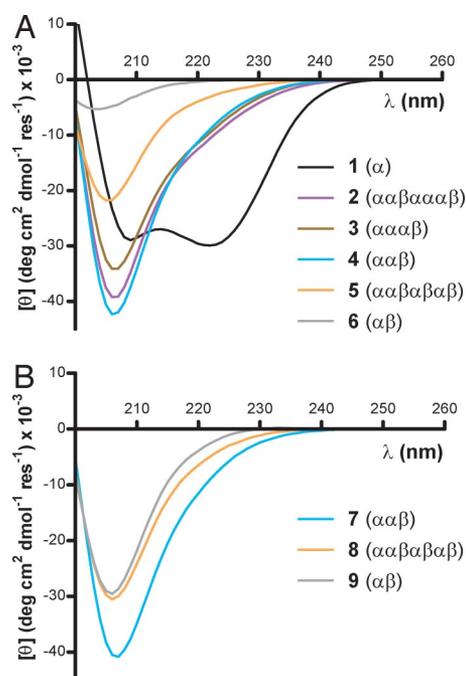


## Corrections

**CHEMISTRY, BIOPHYSICS.** For the article “Interplay among side chain sequence, backbone composition, and residue rigidification in polypeptide folding and assembly,” by W. Seth Horne, Joshua L. Price, and Samuel H. Gellman, which appeared in issue 27, July 8, 2008, of *Proc Natl Acad Sci USA* (105:9151–9156; first published June 27, 2008; 10.1073/pnas.0801135105), the authors note that the circular dichroism (CD) and analytical ultracentrifugation (AU) data reported in Fig. 3 and Table 1 for oligomer **8** were inadvertently obtained for a point mutant in which  $\beta^3$ -hIle<sub>12</sub> was substituted with  $\alpha$ -Ile. The authors have

subsequently prepared and characterized an authentic sample of  $\alpha/\beta$ -peptide **8**. The authors state: “The folding and self-assembly of authentic **8** is qualitatively similar to that of the point mutant, although the quaternary structural stability of **8** is somewhat lower. Authentic **8** shows greater quaternary structural stability than does **5**, and this improvement was the most important feature of **8** with respect to the main thesis of the article. Therefore, this error does not affect the conclusions of the article.” The corrected figure and its legend, and the corrected table, appear below.



**Fig. 3.** CD spectra of 1–9. (A) CD spectra for GCN4-pLI  $\alpha$ -peptide **1** and  $\alpha/\beta$ -peptides **2–6** generated from simple  $\alpha \rightarrow \beta^3$  substitution. (B) CD spectra for GCN4-pLI  $\alpha/\beta$ -peptide derivatives bearing cyclic  $\beta$ -residues. The colors of the spectra in B match the corresponding acyclic  $\beta$ -residue derivatives in A. All spectra were acquired for 100  $\mu\text{M}$   $\alpha$ -peptide or  $\alpha/\beta$ -peptide in 10 mM NaOAc (pH 4.6).

**Table 1. Summary of CD and AU data for 1–9**

Peptide	Backbone pattern	Cyclic $\beta$ -residues	$[\theta]_{\text{min}}$ , $\text{deg cm}^2 \text{dmol}^{-1} \text{res}^{-1}$ *	$T_m$ , $^\circ\text{C}^\dagger$		$N_{\text{assoc}}^\ddagger$
				100 $\mu\text{M}$	25 $\mu\text{M}$	
1	( $\alpha$ )	–	–30,000	>100	n.d.	4
2	( $\alpha\alpha\beta\alpha\alpha\beta$ )	–	–39,000	>100	>100	3
3	( $\alpha\alpha\alpha\beta$ )	–	–34,000	77	63	4
4	( $\alpha\alpha\beta$ )	–	–42,000	82	73	4
5	( $\alpha\alpha\beta\alpha\beta\alpha\beta$ )	–	–22,000	44	–	(1, 3)
6	( $\alpha\beta$ )	–	–5,000	–	–	n.d.
7	( $\alpha\alpha\beta$ )	+	–41,000	>100	>100	4
8	( $\alpha\alpha\beta\alpha\beta\alpha\beta$ )	+	–31,000	82	67	(1, 4) <sup>§</sup>
9	( $\alpha\beta$ )	+	–30,000	80	70	(1, 5)

\*Minimum molar ellipticity observed in the CD spectrum of a 100  $\mu\text{M}$  sample in 10 mM NaOAc (pH 4.6) at 25°C.

<sup>†</sup>Thermal unfolding transitions observed by CD of peptide at the indicated concentration in 10 mM NaOAc (pH 4.6).

<sup>‡</sup>Apparent association state determined by AU of a 200  $\mu\text{M}$  sample in 10 mM NaOAc (pH 4.6), 150 mM NaCl; numbers in parentheses indicate a mixture of two species.

<sup>§</sup>Data acquired for a 100  $\mu\text{M}$  sample in 10 mM NaOAc (pH 4.6); higher concentration and the addition of 150 mM NaCl led to aggregation.

**BIOCHEMISTRY.** For the article “Expression of Globo H and SSEA3 in breast cancer stem cells and the involvement of fucosyl transferases 1 and 2 in Globo H synthesis,” by Wen-Wei Chang, Chien Hsin Lee, Peishan Lee, Juway Lin, Chun-Wei Hsu, Jung-Tung Hung, Jin-Jin Lin, Jyh-Cherng Yu, Li-en Shao, John Yu, Chi-Huey Wong, and Alice L. Yu, which appeared in issue 33, August 19, 2008, of *Proc Natl Acad Sci USA* (105:11667–11672; first published August 6, 2008; 10.1073/pnas.0804979105), the authors note that in the Abstract, line 8, “29/31” should have appeared as “29/40.” Additionally, in Table 1, last column, second row from the bottom, “77.5” should have appeared as “72.5.” These errors do not affect the conclusions of the article. The corrected table appears below.

**Table 1. A comparison of Globo H and SSEA3 expression in BCSCs and non-BCSCs**

Glycan and population	No. of patients	Positive		
		No.	Range*	% of total
<b>Globo H<sup>†</sup></b>				
Total	41	25	14.3–75.2	61.0
Non-BCSCs	41	25	24.4–79.2	61.0
BCSCs	40 <sup>‡</sup>	8	9.7–71.0	20.0
<b>SSEA3<sup>†</sup></b>				
Total	40	31	5.9–66.4	77.5
Non-BCSCs	40	29	24.3–70.4	72.5
BCSCs	40	25	5.0–58.4	62.5

Globo H or SSEA3 expression was determined by flow cytometry as described in *Materials and Methods*. BCSCs were defined as CD45<sup>+</sup>CD24<sup>−</sup>CD44<sup>+</sup> cells, and non-BCSCs were defined as the remaining populations of CD45<sup>+</sup> cells.

\*Range was calculated as percentage of positive cells in total cells.

<sup>†</sup>Among the 53 tumor samples, 28 were examined for the expression of both Globo H and SSEA3, 13 were tested for Globo H only, and the remaining 12 were tested for SSEA3 only.

<sup>‡</sup>Tumor cells from 1 of the 41 patients showed an absence of CD24<sup>−</sup>CD44<sup>+</sup> subpopulation.

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**ECOLOGY.** For the article “Magnetic alignment in grazing and resting cattle and deer,” by Sabine Begall, Jaroslav Červený, Julia Neef, Oldřich Vojtěch, and Hynek Burda, which appeared in issue 36, September 9, 2008, of *Proc Natl Acad Sci USA* (105:13451–13455; first published August 25, 2008; 10.1073/pnas.0803650105), the authors note that due to a printer’s error, on page 13454, right column, in *Analysis of Body Position of Deer (Field Observation)*, the first sentence, “Body position of 2,974 deer (in 227 localities) was recorded in the Czech Republic” should instead read: “Body position of 2,974 deer (in 241 localities) was recorded in the Czech Republic.” Additionally, on page 13455, right column, in *Sun Position and Roe Deer Orientation*, the first sentence “The position of the sun could be deviated by the exact time of the day” should instead read: “The position of the sun could be determined by the exact time of the day.”

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**MEDICAL SCIENCES.** For the article “Uncovering G protein-coupled receptor kinase-5 as a histone deacetylase kinase in the nucleus of cardiomyocytes,” by Jeffrey S. Martini, Philip Raake, Leif E. Vinge, Brent DeGeorge, Jr., J. Kurt Chuprun, David M. Harris, Erhe Gao, Andrea D. Eckhart, Julie A. Pitcher, and Walter J. Koch, which appeared in issue 34, August 26, 2008, of *Proc Natl Acad Sci USA* (105:12457–12462; first published August 18, 2008; 10.1073/pnas.0803153105), the authors note that the author name Brent DeGeorge, Jr., should have appeared as Brent R. DeGeorge, Jr. The author line has been corrected online. The corrected author line and related author contributions footnote appear below.

**Jeffrey S. Martini, Philip Raake, Leif E. Vinge, Brent R. DeGeorge, Jr., J. Kurt Chuprun, David M. Harris, Erhe Gao, Andrea D. Eckhart, Julie A. Pitcher, and Walter J. Koch**

Author contributions: J.S.M., D.M.H., A.D.E., J.A.P., and W.J.K. designed research; J.S.M., P.R., L.E.V., B.R.D., and E.G. performed research; J.S.M. and D.M.H. contributed new reagents/analytic tools; J.S.M., B.R.D., J.K.C., D.M.H., A.D.E., and W.J.K. analyzed data; and J.S.M. and W.J.K. wrote the paper.

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**MICROBIOLOGY.** For the article “Purported nanobacteria in human blood as calcium carbonate nanoparticles,” by Jan Martel and John Ding-E Young, which appeared in issue 14, April 8, 2008, of *Proc Natl Acad Sci USA* (105:5549–5554; first published April 2, 2008; 10.1073/pnas.0711744105), the authors note that on page 5550, right column, line 3, “P:Ca ratio” should have appeared as “Ca:P ratio.” This error does not affect the conclusions of the article.

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**PLANT BIOLOGY.** For the article “Enhanced photoprotection pathways in symbiotic dinoflagellates of shallow-water corals and other cnidarians,” by Jennifer McCabe Reynolds, Brigitte U. Bruns, William K. Fitt, and Gregory W. Schmidt, which appeared in issue 36, September 9, 2008, of *Proc Natl Acad Sci USA* (105:13674–13678; first published August 29, 2008; 10.1073/pnas.0805187105), the authors note that due to a printer’s error, on page 13674, right column, second full paragraph, line 6, “maximum quantum yield as  $F_v/F_m = F_m - F_0$ ” should have appeared as “maximum quantum yield as  $F_v/F_m$ , where variable fluorescence,  $F_v = F_m - F_0$ .”

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