

Correction

BIOCHEMISTRY

Correction for “Discovery of novel carbohydrate-active enzymes through the rational exploration of the protein sequences space,” by William Helbert, Laurent Poulet, Sophie Drouillard, Sophie Mathieu, Mélanie Loidice, Marie Couturier, Vincent Lombard, Nicolas Terrapon, Jeremy Turchetto, Renaud Vincentelli, and Bernard Henrissat, which was first published March 8, 2019; 10.1073/pnas.1815791116 (*Proc Natl Acad Sci USA* 116: 6063–6068).

The authors wish to note the following: “We have found small errors in Table 2 and Table 3; these errors do not change the main conclusions of the paper, except that one additional novel

family is now listed. A protein was wrongly assigned to GH42_dist in the original Table 2. This protein and its orthologs actually form a family completely different from GH42. The orientation of the glycosidic bond cleaved by this protein is different from that of bona fide GH42 proteins. The protein in question is now removed from corrected Table 2 and is listed as GH164 in corrected Table 3. Additionally, a typo and an incorrect GenBank accession number were also corrected in Table 3. The corrected paper reports on an additional novel GH family of proteins. We apologize for the errors.” The corrected Table 2 and Table 3 appear below.

Table 2. Activity of enzymes distantly related to the described GH or PL (GH/PLxx_dist) families

Distant CAZy family	GenBank accession no.	Substrate	Organism
GH2_dist	WP_029427454.1	pNP-β-D-xylopyranoside (new)	<i>Bacteroides cellulosilyticus</i> WH2
GH2_dist	WP_029428707.1	Tamarind gum (new)	<i>Bacteroides cellulosilyticus</i> WH2
GH2_dist	WP_029428765.1	pNP-β-D-glucuronide	<i>Bacteroides cellulosilyticus</i> WH2
GH2_dist	WP_018628801.1	pNP-β-D-glucuronide	<i>Niabella aurantiaca</i> DSM 17617
GH3_dist	AJG33435.1	pNP-β-D-NAc-glucopyranoside	<i>Rickettsia rickettsii</i> str. R
GH5_dist	ZP_06241352.1	pNP-β-D-mannopyranoside	<i>Victivallis vadensis</i> ATCC BAA-548
GH10_dist	EMS72420.1	pNP-β-D-xylopyranoside (weak)	<i>Clostridium termitidis</i> CT1112
GH16_dist	ZP_02063674.1	pNP-β-D-glucopyranoside (new)	<i>Bacteroides ovatus</i> ATCC 8483
GH20_dist	AEV99795.1	pNP-β-D-NAc-6Sulf-glucopyranoside	<i>Niastella koreensis</i> GR20-10
GH20_dist	AHF94523.1	pNP-β-D-NAc-glucopyranoside	<i>Opitutaceae</i> bacterium TAV5
GH31_dist	EIY61740.1	pNP-α-D-galactopyranoside	<i>Bacteroides salyersiae</i> CL02T12C01
GH36_dist	EIY66649.1	pNP-α-D-galactopyranoside	<i>Bacteroides salyersiae</i> CL02T12C01
GH36_dist	ACS99969.1	pNP-α-D-galactopyranoside	<i>Paenibacillus</i> sp. JDR-2
GH36_dist	ACS99975.1	pNP-α-D-galactopyranoside	<i>Paenibacillus</i> sp. JDR-2
GH36_dist	ZP_06242255.1	pNP-α-D-galactopyranoside	<i>Victivallis vadensis</i> ATCC BAA-548
GH49_dist	EDY96541.1	<i>Chaetomorpha</i> sp. CWP (new)	<i>Bacteroides plebeius</i> DSM 17135
GH49_dist	EDY96565.1	<i>Chaetomorpha</i> sp. CWP (new)	<i>Bacteroides plebeius</i> DSM 17135
GH51_dist	WP_084555785.1	Lichenan (new)	<i>Alkaliflexus imshenetskii</i> DSM 15055
GH76_dist	ADO68190.1	pNP-α-D-maltopyranoside (new)	<i>Stigmatella aurantiaca</i> DW4/3-1
GH106_dist	WP_018627535.1	pNP-α-L-rhamnopyranoside	<i>Niabella aurantiaca</i> DSM 17617
GH106_dist	ACT02314.1	pNP-α-L-rhamnopyranoside	<i>Paenibacillus</i> sp. JDR-2
GH117_dist	WP_010134686.1	pNP-β-D-galactofuranoside	<i>Flavobacteriaceae</i> bacterium S85

This set encompasses enzymes that fall outside of established subfamilies or that are only distantly related to biochemically characterized enzymes. “New” designates novel specificity in the family. CWP, cell wall polysaccharide.

