# Correction to "Characterization of human $\alpha4\beta2$-nicotinic acetylcholine receptors stably and heterologously expressed in native nicotinic receptor-null SH-EP1 human epithelial cells"

In the above article [Eaton JB, Peng J-H, Schroeder KM, George AA, Fryer JD, Krishnan C, Buhlman L, Kuo Y-P, Steinlein O, and Lukas RJ (2003) *Mol Pharmacol* **64:**1283–1294], Table 3 was incorrect due to printing errors. The corrected table appears below.

We regret this error and apologize for any confusion or inconvenience it may have caused.

TABLE 3

Parameters for interactions of indicated drugs with h$\alpha4\beta2$-nAChR in transfected SH-EP1 cells

Results presented in Figs. 6 to 9 and in Tables 1 and 2 are summarized. Functional $EC_{50}$ values for agonists (column 2), functional $IC_{50}$ values for antagonists (column 3; functional $IC_{50}$ values given in parentheses for nicotine and suberyldicholine from fits to the self-inhibitory phase of agonist dose-response profiles for those drugs), and [$^3$H]EBDN binding competition $K_i$ values (column 4), all in micromolar, are expressed to allow comparisons between functional and radioligand binding competition affinities for the indicated ligands (drug; column 1). Also indicated (F/B; column 5) is the ratio between the functional $EC_{50}/IC_{50}$ and the binding competition $K_i$ value (based on the $IC_{50}$ value but corrected for the concentration of H-EBDN used in those assays and for the H-EBDN binding $K_D$ of 10 pM using the Cheng-Prusoff correction) for each ligand. The notations following the drug name for selected ligands indicate, from results shown in Fig. 9, functional antagonism actions as a noncompetitive inhibitor (N), a competitive inhibitor (C), or a mixed competitive/noncompetitive inhibitor (N/C).

| Drug | Functional | | Binding Competition $K_i$ | F/B |
|---|---|---|---|---|
| | $EC_{50}$ | $IC_{50}$ | | |
| | $\mu M$ | | $\mu M$ | |
| Epibatidine | 0.0085 | | 0.000012 | 710 |
| Nicotine | 0.85 | (5800) | 0.0020 | 430 |
| Cytisine | 1.3 | | 0.00024 | 5400 |
| Suberyldicholine | 1.3 | 360 (200) | 0.013 | 100 |
| Acetylcholine | 1.7 | | 0.018 | 94 |
| Dimethyl-phenyl-piperazinium | 1.9 | | 0.020 | 95 |
| Carbamylcholine | 17 | | 0.15 | 110 |
| Acetylthiocholine | 100 | | 0.17 | 590 |
| Choline | ~3800 | | 7.0 | >540 |
| Lobeline | | 21 | 0.0019 | 11,000 |
| Succinylcholine | | ≫1000 | 2.9 | >340 |
| Decamethonium C | | 300 | 1.3 | 230 |
| D-tubocurarine N/C | | 62 | 2.0 | 31 |
| Dihydro-$\beta$-erythroidine C | | 1.5 | 0.085 | 18 |
| Methyllycaconitine C | | 6.6 | 2.3 | 2.8 |
| Eserine N | | 130 | >24 | <5.4 |
| Vecuronium | | 28 | 24 | 1.2 |
| Alcuronium | | 26 | 19 | 1.4 |
| Pancuronium N/C | | 91 | 57 | 1.6 |
| Hexamethonium N/C | | 11 | 45 | 0.24 |
| Mecamylamine N | | 0.47 | ≫24 | <0.02 |