Published in final edited form as:

J Med Chem. 2012 May 10; 55(9): 4526. doi:10.1021/jm300471g.

Correction to Synthesis, Structure-Affinity Relationships, and Radiolabeling of Selective High-Affinity 5-HT₄ Receptor Ligands as Prospective Imaging Probes for Positron Emission Tomography

Manuscript number of paper to be corrected: jm100668r Reference citation of paper to be corrected: *J. Med. Chem.* **2010**, 53, 7035-7047. Rong Xu, Jinsoo Hong, Cheryl L. Morse, and Victor W. Pike*: Structure-Affinity Relationships, and Radiolabeling of Selective High-Affinity 5-HT₄ Receptor Ligands as Prospective Imaging Probes for Positron Emission Tomography

Dr. John E. Campbell (Sunovion Pharmaceuticals Inc.) kindly brought to the authors attention the possibility that the nitration of compound **17c** (methyl 7-fluoro-2,3-dihydrobenzo[*b*][1,4]dioxine-5-carboxylate) may actually have proceeded selectively in 6-position rather than in 8-position, and therefore that compound **17d**, the derived amine **17e** and the 5-HT₄ ligand **17** may have been misidentified. Accordingly, we performed X-ray crystallography on compounds **17d** and **17**. The determined X-ray structures confirm the misidentification of **17d** and **17**, which are in fact the corresponding 6-isomers, methyl 7-fluoro-6-nitro-2,3-dihydrobenzo[*b*][1,4]dioxine-5-carboxylate and 6-amino-7-fluoro-2,3-dihydrobenzo[*b*][1,4]dioxine-5-carboxylic acid. The intermediate **17e** is therefore 6-amino-7-fluoro-2,3-dihydrobenzo[*b*][1,4]dioxine-5-carboxylic acid. This correction reveals **17** to be unique among reported high-affinity selective 5-HT₄ receptor ligands, belonging to the amino dihydrobenzo[*b*][1,4]dioxine-5-carboxylic ester structural class, in having an amino group in ortho rather than para position to the ester functionality.

Specific corrections to the published manuscript are as follows:

Page 7036, 2nd column, 2nd paragraph, line 3 should be “6-amino-7-fluoro” instead of “7-fluoro”.

Page 7037, Scheme 4. Compound **17d** has the nitro group in 6 position not the 8-position, and compounds **17e** and **17** have the amino groups in 6-position not 8-position.

Page 7038, Table 1: structure **17** has the amino group in 6-position not 8-position. In the final column of this table the cLogD value for this compound should be “2.69” instead of “2.42”.

Page 7044, 1st column, line 32 should be “-**6-nitro**-” instead of “-**8-nitro**-”.

Page 7044, 1st column, line 45 should be “-**6-Amino**-” instead of “-**8-Amino**-”.

Page 7044, 1st column, line 60 should be “-**6-Amino**-” instead of “-**8-Amino**-”.