**Title:** NOVEL PEPTIDE INHIBITORS OF SEROTONIN 5-HT₃C RECEPTOR: PTEN INTERACTION

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**(57)** Abstract: The 5-HT 2C receptor is implicated in feeding, obesity, palatable food reward, metabolic disorders, drug addiction, anxiety, stress sensitivity, and depression. Embodiments of the invention are directed to modulation of the 5-HT 2cR. Certain aspects are directed to therapies for the above referenced conditions. In certain aspects, therapeutic agents are identified that disrupt the 5-HT2cR:PTEN complex activating 5-HT2C signaling. In certain aspects the complex is disrupted by a disrupter. The disrupter can be a peptide that displaces PTEN from the 5-HT 2cR:PTEN complex or inhibits the formation of the complex.

**FIG. 1**

![Graph showing %1 nM 5-HT Induced Ca²⁺ Release (mean ± S.E.M.)](image-url)
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