

## **Selected Publications (2010 – current)**

1. Elliott E, Ezra-Nevo G, Regev L, Neufeld-Cohen A, **Chen A** (2010) Resilience to social stress coincides with functional DNA methylation of the CRF gene in adult mice. **Nat Neurosci.** 13:1351-1353.
2. Neufeld-Cohen A, Tsoory M, Evans AK, Getselter D, Gil S, Lowry CA, Vale W, **Chen A** (2010) A triple urocortin knockout mouse model reveals an essential role for urocortins in stress recovery. **Proc Natl Acad Sci USA** 107:19020-19025.
3. Kuperman Y, Issler O, Regev L, Musseri I, Navon I, Neufeld-Cohen A, Gil S, **Chen A** (2010) Perifornical Urocortin-3 mediates the link between stress-induced anxiety and energy homeostasis. **Proc Natl Acad Sci USA** 107:8393-8398.
4. Neufeld A, Evans A, Getselter G, Spyroglou A, Hill A, Gil S, Beuschlein F, Lowry C, Vale W, **Chen A** (2010) Urocortin1 and 2 double-deficient mice show robust anxiolytic phenotype and modified serotonergic activity in anxiety circuits. **Mol Psychiatry** 15:426-441.
5. Sztainberg Y, Kuperman Y, Tsoory M, Lebow M, **Chen A** (2010) The anxiolytic effect of environmental enrichment is mediated via amygdalar CRF receptor type 1. **Mol Psychiatry** 15:905-917.
6. Haramati S, Chapnik E, Sztainberg H, Eilam-Altstadter R, Zwang R, Gershoni N, McGlenn E, Heiser PW, Wills AM, Wirguin I, Rubin L, Misawa H, Tabin CJ, Brown R, **Chen A\***, Hornstein E\* (2010) miRNA malfunction causes spinal motor neuron disease. **Proc Natl Acad Sci USA** 107:13111-13116. \*Corresponding authors.
7. Kuperman Y, Issler O, Regev L, Musseri I, Navon I, Neufeld-Cohen A, Gil S, **Chen A** (2010) Perifornical Urocortin-3 mediates the link between stress-induced anxiety and energy homeostasis. **Proc Natl Acad Sci USA** 107:8393-8398.
8. Regev L, Ezrielev E, Gershon E, Gil S, **Chen A** (2010) Genetic approach for intracerebroventricular delivery. **Proc Natl Acad Sci USA** 107:4424-4429.
9. Sztainberg Y and **Chen A** (2010) An environmental enrichment model for mice. **Nat Protoc.** 5:1535-1539.
10. Shema R, Haramati S, Ron S, Hazvi S, **Chen A**, Sacktor TC, Dudai Y (2011) Enhancement of consolidated long-term memory by overexpression of protein kinase Mzeta in the neocortex. **Science** 331:1207-1210.
11. Regev L, Neufeld A, Tsoory M, Getselter D, **Chen A** (2011) Prolong and site-specific over-expression of corticotropin releasing factor reveals differential role for extended amygdala nuclei in emotional regulation. **Mol Psychiatry** 6:714-728.

12. Rousso-Noori L, Knobler H, Levy-Apter E, Kuperman Y, Neufeld-Cohen A, Keshet Y, Akepati VR, Klinghoffer RA, **Chen A**, Elson A (2011) Protein tyrosine phosphatase epsilon affects body weight by downregulating leptin signaling in a phosphorylation-dependent manner. **Cell Metab.** 13:562-572.
13. Haramati H, Navon I, Issler O, Ezra-Nevo G, Gil S, Zwang R, Hornstein E, **Chen A** (2011) microRNA as repressors of stress induced anxiety: the case of amygdala miR-34. **J Neurosci.** 31:14191-14203.
14. Sztainberg Y, Kuperman Y, Justice N, **Chen A** (2011) An anxiolytic role for CRF receptor type 1 in the globus pallidus. **J Neurosci.** 31:17416-17424.
15. Regev R, Tsoory M, Gil S, **Chen A** (2012) Site-specific genetic manipulation of amygdala CRF reveals its imperative role in mediating behavioral response to challenge. **Biol Psychiatry** 71:317-326.
16. Amir-Zilberstein L, Blechman J, Sztainberg Y, Bonkowsky JL, **Chen A**, Levkowitz G (2012) Activity-dependent splicing of the PAC1 receptor modulate neuronal adaptation to stress. **Neuron** 73:279-291.
17. Cooper A, Grigoryan G, Guy-David L, Tsoory MM, **Chen A**, Reuveny E (2012) Trisomy of the G protein-coupled K<sup>+</sup> channel gene, *Kcnj6*, affects reward mechanisms, cognitive functions, and synaptic plasticity in mice. **Proc Natl Acad Sci USA** 109:2642-2647.
18. Lebow L, Neufeld-Cohen A, Kuperman Y, Gil S and **Chen A** (2012) Susceptibility to PTSD is mediated by CRF receptor type 2 levels in the bed nucleus of the stria terminalis. **J Neurosci.** 32:6906-6916.
19. Neufeld-Cohen A, Kelly PA, Paul ED, Carter RN, Skinner E, Olverman HJ, Vaughan JM, Issler O, Kuperman Y, Lowry CA, Vale WW, Seckl JR, **Chen A**, Jamieson PM (2012) Chronic activation of corticotropin-releasing factor type 2 receptors reveals a key role for 5-HT<sub>1A</sub> receptor responsiveness in mediating behavioral and serotonergic responses to stressful challenge. **Biol Psychiatry** 72:437-447.
20. Shemesh Y, Sztainberg Y, Forkosh O, Shlapobersky T, **Chen A\***, Schneidman E\* (2013) High-order social interactions in groups of mice. **eLife** 2:e00759. \*Corresponding authors.
21. Issler O, Haramati S, Paul E, Maeno H, Navon I, Zwang R, Gil S, Mayberg HS, Dunlop BW, Menke A, Awatramani R, Binder EB, Deneris ES, Lowry CA, **Chen A** (2014) microRNA 135 is essential for chronic stress resiliency, antidepressant efficacy and intact serotonergic activity. **Neuron (In Press)**.