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**Publications:**

Ho PC\*, Hsiao FY\*, Chiu SH, Lee SR, **Yau HJ** (2023) A nigroincertal projection mediates aversion and enhances coping responses to potential threat. ***FASEB J***. (Accepted).

Tsou JH\*,Lee SR\*,Chiang CY, Yang YJ, Guo FY, Ni SY, **Yau HJ** (2023) Negative emotions recruit the parabrachial nucleus efferent to the VTA to disengage instrumental food seeking. ***J Neurosci.*** 43(44):7276-7293.

[Kuo](https://pubmed.ncbi.nlm.nih.gov/?term=Kuo+CC&cauthor_id=32598024) CC, [Hsieh](https://pubmed.ncbi.nlm.nih.gov/?term=Hsieh+JC&cauthor_id=32598024) JC, [Tsai](https://pubmed.ncbi.nlm.nih.gov/?term=Tsai+HC&cauthor_id=32598024) HC, [Kuo](https://pubmed.ncbi.nlm.nih.gov/?term=Kuo+YS&cauthor_id=32598024) YS, [**Yau**](https://pubmed.ncbi.nlm.nih.gov/?term=Yau+HJ&cauthor_id=32598024) **HJ**, [Chen](https://pubmed.ncbi.nlm.nih.gov/?term=Chen+CC&cauthor_id=32598024) CC, [Chen](https://pubmed.ncbi.nlm.nih.gov/?term=Chen+RF&cauthor_id=32598024) RF, [Yang](https://pubmed.ncbi.nlm.nih.gov/?term=Yang+HW&cauthor_id=32598024) HW, [Min](https://pubmed.ncbi.nlm.nih.gov/?term=Min+MY&cauthor_id=32598024) MY (2020) Inhibitory interneurons regulate phasic activity of noradrenergic neurons in the mouse locus coeruleus and functional implications. ***J Physiol.*** 598(18):4003-4029.

Lu GL, **Yau HJ**, Chiou LC (2017) [Conditioned place preference training prevents hippocampal depotentiation in an orexin-dependent manner.](https://www.ncbi.nlm.nih.gov/pubmed/28877723) ***J Biomed Sci.*** 24(1):69.

[Pignatelli M](https://www.ncbi.nlm.nih.gov/pubmed/?term=Pignatelli%20M%5BAuthor%5D&cauthor=true&cauthor_uid=28103482), [Umanah GKE](https://www.ncbi.nlm.nih.gov/pubmed/?term=Umanah%20GKE%5BAuthor%5D&cauthor=true&cauthor_uid=28103482), [Ribeiro SP](https://www.ncbi.nlm.nih.gov/pubmed/?term=Ribeiro%20SP%5BAuthor%5D&cauthor=true&cauthor_uid=28103482), [Chen R](https://www.ncbi.nlm.nih.gov/pubmed/?term=Chen%20R%5BAuthor%5D&cauthor=true&cauthor_uid=28103482), [Karuppagounder SS](https://www.ncbi.nlm.nih.gov/pubmed/?term=Karuppagounder%20SS%5BAuthor%5D&cauthor=true&cauthor_uid=28103482), [**Yau HJ**](https://www.ncbi.nlm.nih.gov/pubmed/?term=Yau%20HJ%5BAuthor%5D&cauthor=true&cauthor_uid=28103482), [Eacker S](https://www.ncbi.nlm.nih.gov/pubmed/?term=Eacker%20S%5BAuthor%5D&cauthor=true&cauthor_uid=28103482), [Dawson VL](https://www.ncbi.nlm.nih.gov/pubmed/?term=Dawson%20VL%5BAuthor%5D&cauthor=true&cauthor_uid=28103482), [Dawson TM](https://www.ncbi.nlm.nih.gov/pubmed/?term=Dawson%20TM%5BAuthor%5D&cauthor=true&cauthor_uid=28103482), [Bonci A](https://www.ncbi.nlm.nih.gov/pubmed/?term=Bonci%20A%5BAuthor%5D&cauthor=true&cauthor_uid=28103482) (2017) Synaptic Plasticity onto Dopamine Neurons Shapes Fear Learning. ***Neuron.*** 93(2):425-440.

**Yau HJ**, Wang DV, Tsou JH, Chuang YF, Chen BT, Deisseroth K, Ikemoto S, Bonci A (2016) Pontomesencephalic tegmental afferents to VTA non-dopamine neurons are necessary for appetitive Pavlovian learning. ***Cell Reports.*** 16(10):2699-710.

Chang CY, Esber GR, Marrero-Garcia Y, **Yau HJ**, Bonci A and Schoenbaum G (2016) Brief optogenetic inhibition of dopamine neurons mimics endogenous negative reward prediction errors. ***Nat Neurosci.*** 19(1):111-6.

Wang DV, **Yau HJ**, Broker CJ, Tsou JH, Bonci A, Ikemoto S (2015) Median raphe nucleus regulates hippocampal ripple oscillation and memory consolidation. ***Nat Neurosci.*** 18(5):728-35.

Jayanthi S, McCoy MT, Chen B, Britt J, Kourrich S, **Yau HJ**, Ladenheim B, Krasnova IN, Bonci A, Cadet JL (2014) Methamphetamine down-regulates striatal glutamate receptors via diverse epigenetic mechanisms. ***Biol. Psychiatry.*** 76(1):47-56.

[Radzicki D](http://www.ncbi.nlm.nih.gov/pubmed?term=Radzicki%20D%5BAuthor%5D&cauthor=true&cauthor_uid=23761887)\*, [**Yau HJ**](http://www.ncbi.nlm.nih.gov/pubmed?term=Yau%20HJ%5BAuthor%5D&cauthor=true&cauthor_uid=23761887)**\***, [Pollema-Mays SL](http://www.ncbi.nlm.nih.gov/pubmed?term=Pollema-Mays%20SL%5BAuthor%5D&cauthor=true&cauthor_uid=23761887), [Mlsna L](http://www.ncbi.nlm.nih.gov/pubmed?term=Mlsna%20L%5BAuthor%5D&cauthor=true&cauthor_uid=23761887), [Cho K](http://www.ncbi.nlm.nih.gov/pubmed?term=Cho%20K%5BAuthor%5D&cauthor=true&cauthor_uid=23761887), [Koh S](http://www.ncbi.nlm.nih.gov/pubmed?term=Koh%20S%5BAuthor%5D&cauthor=true&cauthor_uid=23761887), [Martina M](http://www.ncbi.nlm.nih.gov/pubmed?term=Martina%20M%5BAuthor%5D&cauthor=true&cauthor_uid=23761887) (2013) Temperature-sensitive Cav1.2 calcium channels support intrinsic firing of pyramidal neurons and provide a target for the treatment of febrile seizures. [***J Neurosci.***](http://www.ncbi.nlm.nih.gov/pubmed/23761887) 33(24):9920-31. **(\*equal contribution).**

[Chen BT](http://www.ncbi.nlm.nih.gov/pubmed?term=Chen%20BT%5BAuthor%5D&cauthor=true&cauthor_uid=23552889), [**Yau HJ**](http://www.ncbi.nlm.nih.gov/pubmed?term=Yau%20HJ%5BAuthor%5D&cauthor=true&cauthor_uid=23552889), [Hatch C](http://www.ncbi.nlm.nih.gov/pubmed?term=Hatch%20C%5BAuthor%5D&cauthor=true&cauthor_uid=23552889), [Kusumoto-Yoshida I](http://www.ncbi.nlm.nih.gov/pubmed?term=Kusumoto-Yoshida%20I%5BAuthor%5D&cauthor=true&cauthor_uid=23552889), [Cho SL](http://www.ncbi.nlm.nih.gov/pubmed?term=Cho%20SL%5BAuthor%5D&cauthor=true&cauthor_uid=23552889), [Hopf FW](http://www.ncbi.nlm.nih.gov/pubmed?term=Hopf%20FW%5BAuthor%5D&cauthor=true&cauthor_uid=23552889), [Bonci A](http://www.ncbi.nlm.nih.gov/pubmed?term=Bonci%20A%5BAuthor%5D&cauthor=true&cauthor_uid=23552889) (2013) Rescuing cocaine-induced prefrontal cortex hypoactivity prevents compulsive cocaine seeking. [***Nature.***](http://www.ncbi.nlm.nih.gov/pubmed/23552889) 496(7445):359-62

[Takahashi YK](http://www.ncbi.nlm.nih.gov/pubmed?term=Takahashi%20YK%5BAuthor%5D&cauthor=true&cauthor_uid=24139047), [Chang CY](http://www.ncbi.nlm.nih.gov/pubmed?term=Chang%20CY%5BAuthor%5D&cauthor=true&cauthor_uid=24139047), [Lucantonio F](http://www.ncbi.nlm.nih.gov/pubmed?term=Lucantonio%20F%5BAuthor%5D&cauthor=true&cauthor_uid=24139047), [Haney RZ](http://www.ncbi.nlm.nih.gov/pubmed?term=Haney%20RZ%5BAuthor%5D&cauthor=true&cauthor_uid=24139047), [Berg BA](http://www.ncbi.nlm.nih.gov/pubmed?term=Berg%20BA%5BAuthor%5D&cauthor=true&cauthor_uid=24139047), [**Yau HJ**](http://www.ncbi.nlm.nih.gov/pubmed?term=Yau%20HJ%5BAuthor%5D&cauthor=true&cauthor_uid=24139047), [Bonci A](http://www.ncbi.nlm.nih.gov/pubmed?term=Bonci%20A%5BAuthor%5D&cauthor=true&cauthor_uid=24139047), [Schoenbaum G](http://www.ncbi.nlm.nih.gov/pubmed?term=Schoenbaum%20G%5BAuthor%5D&cauthor=true&cauthor_uid=24139047) (2013) Neural estimates of imagined outcomes in the orbitofrontal cortex drive behavior and learning. [***Neuron.***](http://www.ncbi.nlm.nih.gov/pubmed/24139047) 80(2):507-18.

[Calu DJ](http://www.ncbi.nlm.nih.gov/pubmed?term=Calu%20DJ%5BAuthor%5D&cauthor=true&cauthor_uid=23283335), [Kawa AB](http://www.ncbi.nlm.nih.gov/pubmed?term=Kawa%20AB%5BAuthor%5D&cauthor=true&cauthor_uid=23283335), [Marchant NJ](http://www.ncbi.nlm.nih.gov/pubmed?term=Marchant%20NJ%5BAuthor%5D&cauthor=true&cauthor_uid=23283335), [Navarre BM](http://www.ncbi.nlm.nih.gov/pubmed?term=Navarre%20BM%5BAuthor%5D&cauthor=true&cauthor_uid=23283335), [Henderson MJ](http://www.ncbi.nlm.nih.gov/pubmed?term=Henderson%20MJ%5BAuthor%5D&cauthor=true&cauthor_uid=23283335), [Chen B](http://www.ncbi.nlm.nih.gov/pubmed?term=Chen%20B%5BAuthor%5D&cauthor=true&cauthor_uid=23283335), [**Yau HJ**](http://www.ncbi.nlm.nih.gov/pubmed?term=Yau%20HJ%5BAuthor%5D&cauthor=true&cauthor_uid=23283335), [Bossert JM](http://www.ncbi.nlm.nih.gov/pubmed?term=Bossert%20JM%5BAuthor%5D&cauthor=true&cauthor_uid=23283335), [Schoenbaum G](http://www.ncbi.nlm.nih.gov/pubmed?term=Schoenbaum%20G%5BAuthor%5D&cauthor=true&cauthor_uid=23283335), [Deisseroth K](http://www.ncbi.nlm.nih.gov/pubmed?term=Deisseroth%20K%5BAuthor%5D&cauthor=true&cauthor_uid=23283335), [Harvey BK](http://www.ncbi.nlm.nih.gov/pubmed?term=Harvey%20BK%5BAuthor%5D&cauthor=true&cauthor_uid=23283335), [Hope BT](http://www.ncbi.nlm.nih.gov/pubmed?term=Hope%20BT%5BAuthor%5D&cauthor=true&cauthor_uid=23283335), [Shaham Y](http://www.ncbi.nlm.nih.gov/pubmed?term=Shaham%20Y%5BAuthor%5D&cauthor=true&cauthor_uid=23283335) (2013) Optogenetic inhibition of dorsal medial prefrontal cortex attenuates stress-induced reinstatement of palatable food seeking in female rats. [***J Neurosci.***](http://www.ncbi.nlm.nih.gov/pubmed/23283335) 33(1):214-26.

[Del Rey A](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Del%20Rey%20A%22%5BAuthor%5D), [**Yau HJ**](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Yau%20HJ%22%5BAuthor%5D), [Randolf A](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Randolf%20A%22%5BAuthor%5D), [Centeno MV](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Centeno%20MV%22%5BAuthor%5D), [Wildmann J](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Wildmann%20J%22%5BAuthor%5D), [Martina M](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Martina%20M%22%5BAuthor%5D), Besedovsky HO, [Apkarian AV](http://www.ncbi.nlm.nih.gov/pubmed?term=%22Apkarian%20AV%22%5BAuthor%5D) (2011) Chronic neuropathic pain-like behavior correlates with IL-1β expression and disrupts cytokine interactions in the hippocampus. ***Pain.*** 152(12):2827-35.

**Yau HJ**, Baranauskas G, Martina M (2010) Flufenamic acid decreases neuronal excitability through modulation of voltage-gated sodium channel gating. ***J Physiol.*** 588(Pt 20):3869-82.

Deng HX, Klein CJ, Yan J, Shi Y, Wu Y, Fecto F, **Yau HJ**, Yang Y, Zhai H, Siddique N, Hedley-Whyte ET, Delong R, Martina M, Dyck PJ, Siddique T (2010) Scapuloperoneal spinal muscular atrophy and CMT2C are allelic disorders caused by alterations in TRPV4. ***Nat Genet.***42(2):165-9.

Metz AE, **Yau HJ**, Centeno MV, Apkarian AV, Martina M (2009) Morphological and functional reorganization of rat medial prefrontal cortex in neuropathic pain. ***Proc Natl Acad Sci U S A.*** 106(7):2423-8.

Sato T, Miura M, Yamada M, Yoshida T, Wood JD, Yazawa I, Masuda M, Suzuki T, Shin RM, **Yau HJ**, Liu FC, Shimohata T, Onodera O, Ross CA, Katsuki M, Takahashi H, Kano M, Aosaki T, Tsuji S (2009) Severe neurological phenotypes of Q129 DRPLA transgenic mice serendipitously created by en masse expansion of CAG repeats in Q76 DRPLA mice. ***Hum Mol Genet.*** 18(4):723-36.

Russo MJ\*, **Yau HJ\***, Nunzi MG, Mugnaini E, Martina M (2008) Dynamic metabotropic control of intrinsic firing in cerebellar unipolar brush cells. ***J Neurophysiol.*** 100(6): 3351-60. **(\*equal contribution).**

**Yau HJ**, Wang HF, Lai C, Liu FC (2003) Neural development of the neuregulin receptor ErbB4 in the cerebral cortex and the hippocampus: preferential expression by interneurons tangential migrating from the ganglionic eminences. ***Cereb Cortex.*** 13, 252-264.