

L. ERIC HUANG, MD, PhD PUBLICATIONS

PEER-REVIEWED JOURNAL ARTICLES

1. Chi HS, Li B, **Huang LE**, Lui AYC. (1991). cAMP and c-AMP-dependent protein kinase regulate the human hsp 70 gene promoter activity. *J Biol Chem*, 266, 11858-11865.
2. Chang NT, **Huang LE**, Liu AY. (1993). Okadaic acid markedly potentiates the heat-induced hsp 70 promoter activity. *J Biol Chem*, 268(2), 1436-9.
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4. **Huang LE**, Zhang H, Bae SW, Liu AY. (1994). Thiol reducing reagents inhibit the heat shock response. Involvement of a redox mechanism in the heat shock signal transduction pathway. *J Biol Chem*, 269(48), 30718-25.
5. Galson DL, Tsuchiya T, Tendler DS, **Huang LE**, Ren Y, Ogura T, Bunn HF. (1995). The orphan receptor hepatic nuclear factor 4 functions as a transcriptional activator for tissue-specific and hypoxia-specific erythropoietin gene expression and is antagonized by EAR3/COUP-TF1. *Mol Cell Biol*, 15(4), 2135-44.
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7. Arany Z, **Huang LE**, Eckner R, Bhattacharya S, Jiang C, Goldberg MA, Bunn HF, Livingston DM. (1996). An essential role for p300/CBP in the cellular response to hypoxia. *PNAS*, 93(23), 12969-73.
8. **Huang LE**, Arany Z, Livingston DM, Bunn HF. (1996). Activation of hypoxia-inducible transcription factor depends primarily upon redox-sensitive stabilization of its alpha subunit. *J Biol Chem*, 271(50), 32253-9.
9. **Huang LE**, Gu J, Schau M, Bunn HF. (1998). Regulation of hypoxia-inducible factor 1alpha is mediated by an O2-dependent degradation domain via the ubiquitin-proteasome pathway. *PNAS*, 95(14), 7987-92.
10. **Huang LE**, Willmore WG, Gu J, Goldberg MA, Bunn HF. (1999). Inhibition of hypoxia-inducible factor 1 activation by carbon monoxide and nitric oxide. Implications for oxygen sensing and signaling. *J Biol Chem*, 274(13), 9038-44.
11. Ohh M, Park CW, Ivan M, Hoffman MA, Kim TY, **Huang LE**, Pavletich N, Chau V, Kaelin WG. (2000). Ubiquitination of hypoxia-inducible factor requires direct binding to the beta-domain of the von Hippel-Lindau protein. *Nat Cell Biol*, 2(7), 423-7.
12. Gu J, Milligan J, **Huang LE**. (2001). Molecular mechanism of hypoxia-inducible factor 1alpha -p300 interaction. A leucine-rich interface regulated by a single cysteine. *J Biol Chem*, 276(5), 3550-4.
13. Tendler DS, Bao C, Wang T, **Huang EL**, Ratovitski EA, Pardoll DA, Lowenstein CJ. (2001). Intersection of interferon and hypoxia signal transduction pathways in nitric oxide-induced tumor apoptosis. *Cancer Res*, 61(9), 3682-8.
14. Elson DA, Thurston G, **Huang LE**, Ginzinger DG, McDonald DM, Johnson RS, Arbeit JM. (2001). Induction of hypervascularity without leakage or inflammation in transgenic mice overexpressing hypoxia-inducible factor-1alpha. *Genes Dev*, 15(19), 2520-32.
15. **Huang LE**, Pete EA, Schau M, Milligan J, Gu J. (2002). Leu-574 of HIF-1alpha is essential for the von Hippel-Lindau (VHL)-mediated degradation pathway. *J Biol Chem*, 277(44), 41750-5.
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- inducible factor-1alpha and hypoxia-inducible factor-2alpha in HEK293T cells. *Cancer Res*, 65(8), 3299-306.
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 30. Sun X, He G, Qing H, Zhou W, Dobie F, Cai F, Staufenbiel M, **Huang LE**, Song W. (2006). Hypoxia facilitates Alzheimer's disease pathogenesis by up-regulating BACE1 gene expression. *PNAS*, 103(49), 18727-32.
 31. Hammer S, To KK, Yoo YG, Koshiji M, **Huang LE**. (2007). Hypoxic suppression of the cell cycle gene CDC25A in tumor cells. *Cell Cycle*, 6(15), 1919-26.
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 34. **Huang LE**. (2008). Carrot and stick: HIF-alpha engages c-Myc in hypoxic adaptation. *Cell Death Differ*, 15(4), 672-7.
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1. **Huang LE**, Bunn HF. (1995). Regulation of erythropoietin gene expression. *Curr Opin Hematol*, 2(2), 125-31.
2. Liu AY, Lee YK, Manalo D, **Huang LE**. (1996). Attenuated heat shock transcriptional response in aging: molecular mechanism and implication in the biology of aging. *EXS*, 77, 393-408.
3. **Huang LE**, Ho V, Arany Z, Krainc D, Galson D, Tendler D, Livingston DM, Bunn HF. (1997). Erythropoietin gene regulation depends on heme-dependent oxygen sensing and assembly of interacting transcription factors. *Kidney Int*, 51(2), 548-52.
4. Bunn HF, Gu J, **Huang LE**, Park JW, Zhu H. (1998). Erythropoietin: a model system for studying oxygen-dependent gene regulation. *J Exp Biol*, 201(Pt 8), 1197-201.
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BOOK CHAPTERS

1. **Huang LE**, Bunn HF. (1998). Regulation of hypoxia inducible factor 1 activity. In Lopez-Barneo J, Weik EK (Eds.), *Oxygen regulation of ion channels and gene expression* (pp. 101-112). New York, Futura.

CONFERENCE PROCEEDINGS

1. Kaufman B, Scharf O, Arbeit J, Ashcroft M, Brown JM, Bruick RK, Chapman JD, Evans SM, Giaccia AJ, **Huang LE**, Johnson R, Kaelin W Jr, Koch CJ, Maxwell P, Mitchell J, Neckers L, Powis G, Rajendran J, Semenza GL, Simon J, Storkebaum E, Welch MJ, Whitelaw M, Melillo G, Ivy SP. (2004). Proceedings of the Oxygen Homeostasis/Hypoxia Meeting. *Cancer Research*, 64, 3350-3356.

OTHER (Commentary/Letters/Editorials/Case Reports/Video/Film)

Letters

1. **Huang LE.** (2004). Targeting HIF-alpha: when a magic arrow hits the bull's eye [Letter to the editor]. *Drug Discov Today*, 9(20), 869.

Other

1. **Huang LE.** (2002). Leu574 of HIF-1alpha as a molecular basis for therapeutic development. In *Employee Invention Report*.
2. Koshiji M, Kageyama Y, Pete EA, Horikawa I, Barrett JC, **Huang LE.** (2005). A Novel HIF-1alpha-Myc Pathway Regulating Hypoxia-induced Cell-cycle Arrest. In *Frontiers In Science (May 2005)*, pp. 11-12). Bethesda: National Cancer Institute's Center for Cancer Research.

Patents

1. **Huang LE.** (2002). Hypoxia-Inducible Factor 1alpha Variants and Methods of Use. Washington, D.C.:U.S. Patent and Trademark Office.