

References for NCA connectivity matrix

Number	Reference
aa	(Horton et al. 2003)
ab	(Herzog et al. 2004)
ac	(Mascaro et al. 1998)
ad	(Banine et al. 2000)
ae	(Amemiya-Kudo et al. 2002)
af	(Le et al. 2005)
ag	(Mandard et al. 2004)
ah	(Hiraku Ono et al. 2003)
ai	(Katsumi Iizuka et al. 2004)
aj	(Chu et al. 2004)
ak	(Peters et al. 2005)
al	(Cherkaoui-Malki et al. 2001)
am	(Stier et al. 1998)
an	(Mittelstadt and Ashwell 2003)
ao	(Kersten et al. 2001)
ap	(Iritani 2000)
aq	(Xu et al. 2004)
ar	(Schoneveld et al. 2004)
as	(Shingu and Bornstein 1994)
at	http://www.sladeklab.ucr.edu/hnf43.pdf
au	(Leone et al. 1999)
av	(Trautwein et al. 1996)
aw	(Mueller 1992)
ax	(Ruminy et al. 2001)
ay	(Ronggai Sun et al. 2001)
az	(Hinoi et al. 2002)
ba	(Martelli et al. 1994)
bb	(Moya-Garcia et al. 2005)
bc	(J D Horton et al. 1998)
bd	(Lu and Cidlowski 2005)
be	(Cortes-Canteli et al. 2004)
bf	(Guo et al. 2006)
bg	(Leclerc et al. 2004)
bh	(Odom et al. 2004)
bi	(Seckl and Walker 2001)
bj	(Lin Ma et al. 2006)
bk	(Friedman et al. 2004)
bl	(Harmancey et al. 2007)
bm	(Rebouissou et al. 2007)

bn	(Hayhurst et al. 2001)
bo	(K Tamura et al. 2006)
bp	(Tien et al. 2003)
bq	(Shishido et al. 2003)
br	(Spear et al. 2006)
bs	(You et al. 2003)
bt	(Ceshi Chen et al. 2004)
bu	(Quinet et al. 2006)
bv	(Maxwell et al. 2003)
bw	(Edwards et al. 2002)
bx	(Ide et al. 2003)
by	(Repa and DJ Mangelsdorf 2003)
bz	(Peet et al. 1998)
ca	(Mitro et al. 2007)
cb	(Steffensen and Gustafsson 2004)
cc	(Krook 2006)
cd	(Fahrner et al. 1993)
ce	(Griffo et al. 1993)
cf	(Gotoh et al. 1997)
cg	(Thomas P. Burris et al. 2005)

Bibliography

"HNF4{alpha} target genes." <http://www.sladeklab.ucr.edu/hnf43.pdf>.

Amemiya-Kudo, Michiyo et al. 2002. "Transcriptional activities of nuclear SREBP-1a, -1c, and -2 to different target promoters of lipogenic and cholesterogenic genes." *J. Lipid Res.* 43:1220-1235.

Banine, Fatima, Christophe Gangneux, Louis Mercier, Alphonse Le Cam, and Jean-Philippe Salier. 2000. "Positive and negative elements modulate the promoter of the human liver-specific alpha2-HS-glycoprotein gene." *European Journal of Biochemistry* 267:1214-1222.

Burris, Thomas P. et al. 2005. "The hypolipidemic natural product guggulsterone is a promiscuous steroid receptor ligand." *Mol Pharmacol* 67:948-954.

Chen, Ceshi et al. 2004. "Regulation of KLF5 involves the Sp1 transcription factor in human epithelial cells." *Gene* 330:133-142.

Cherkaoui-Malki, M et al. 2001. "Identification of novel peroxisome proliferator-activated receptor alpha (PPARalpha) target genes in mouse liver using cDNA microarray analysis." *Gene Expression* 9:291-304.

Chu, Ruiyin et al. 2004. "Protein profiling of mouse livers with peroxisome proliferator-activated receptor {alpha} activation." *Mol. Cell. Biol.* 24:6288-6297.

- Cortes-Canteli, Marta, Mechthild Wagner, Wilhelm Ansorge, and Ana Perez-Castillo. 2004. "Microarray analysis supports a role for CCAAT/enhancer-binding protein-{beta} in brain injury." *J. Biol. Chem.* 279:14409-14417.
- Edwards, Peter A., Matthew A. Kennedy, and Puiying A. Mak. 2002. "LXRs; : Oxysterol-activated nuclear receptors that regulate genes controlling lipid homeostasis." *Vascular Pharmacology* 38:249-256.
- Fahrner, Joachim et al. 1993. "Identification and functional characterization of regulatory elements of the glutamine synthetase gene from rat liver." *European Journal of Biochemistry* 213:1067-1073.
- Friedman, Joshua R. et al. 2004. "Orthogonal analysis of C/EBP{beta} targets in vivo during liver proliferation." *Proceedings of the National Academy of Sciences* 101:12986-12991.
- Gotoh, Tomomi, Shoaib Chowdhury, Masaki Takiguchi, and Masataka Mori. 1997. "The glucocorticoid-responsive gene cascade. Activation of the rat arginase gene through induction of C/EBP{beta}." *J. Biol. Chem.* 272:3694-3698.
- Griffo, G et al. 1993. "HNF4 and HNF1 as well as a panel of hepatic functions are extinguished and reexpressed in parallel in chromosomally reduced rat hepatoma-human fibroblast hybrids." *J. Cell Biol.* 121:887-898.
- Guo, Lei et al. 2006. "Differences in hepatotoxicity and gene expression profiles by anti-diabetic PPAR γ agonists on rat primary hepatocytes and human HepG2 cells." *Molecular Diversity* 10:349-360.
- Harmancey, Romain, Jean-Michel Senard, Philippe Rouet, Atul Pathak, and Fatima Smih. 2007. "Adrenomedullin inhibits adipogenesis under transcriptional control of insulin." *Diabetes* 56:553-563.
- Hayhurst, Graham P., Ying-Hue Lee, Gilles Lambert, Jerrold M. Ward, and Frank J. Gonzalez. 2001. "Hepatocyte nuclear factor 4{alpha} (nuclear receptor 2a1) is essential for maintenance of hepatic gene expression and lipid homeostasis." *Mol. Cell. Biol.* 21:1393-1403.
- Herzog, Birger, Robert K. Hall, Xiaohui L. Wang, Mary Waltner-Law, and Daryl K. Granner. 2004. "Peroxisome proliferator-activated receptor {gamma} coactivator-1{alpha}, as a transcription amplifier, is not essential for basal and hormone-induced phosphoenolpyruvate carboxykinase gene expression." *Mol Endocrinol* 18:807-819.
- Hinoi, Takao et al. 2002. "CDX2 regulates liver intestine-cadherin expression in normal and malignant colon epithelium and intestinal metaplasia." *Gastroenterology* 123:1565-1577.
- Horton, J D et al. 1998. "Activation of cholesterol synthesis in preference to fatty acid synthesis in liver and adipose tissue of transgenic mice overproducing sterol regulatory element-binding protein-2." *Journal of Clinical Investigation* 101:2331-2339.

- Horton, Jay D. et al. 2003. "Combined analysis of oligonucleotide microarray data from transgenic and knockout mice identifies direct SREBP target genes." *Proceedings of the National Academy of Sciences* 100:12027-12032.
- Ide, Tomohiro et al. 2003. "Cross-talk between peroxisome proliferator-activated receptor (PPAR) {alpha} and liver X receptor (LXR) in nutritional regulation of fatty acid metabolism. II. LXRs suppress lipid degradation gene promoters through inhibition of PPAR signaling." *Mol Endocrinol* 17:1255-1267.
- Iizuka, Katsumi, Richard K. Bruick, Guosheng Liang, Jay D. Horton, and Kosaku Uyeda. 2004. "Deficiency of carbohydrate response element-binding protein (ChREBP) reduces lipogenesis as well as glycolysis." *Proceedings of the National Academy of Sciences* 101:7281-7286.
- Iritani, N. 2000. "Nutritional and insulin regulation of leptin gene expression." *Current opinion in clinical nutrition and metabolic care* 3:275-9.
- Kersten, S et al. 2001. "The peroxisome proliferator-activated receptor {alpha} regulates amino acid metabolism." *FASEB J.* 15:1971-1978.
- Krook, A. 2006. "Can the liver X receptor work its magic in skeletal muscle too?." *Diabetologia* 49:819-821.
- Le, Phillip Phuc et al. 2005. "Glucocorticoid receptor-dependent gene regulatory networks." *PLoS Genetics* 1:e16.
- Leclerc, N et al. 2004. "Gene expression profiling of glucocorticoid-inhibited osteoblasts." *J Mol Endocrinol* 33:175-193.
- Leone, Teresa C., Carla J. Weinheimer, and Daniel P. Kelly. 1999. "A critical role for the peroxisome proliferator-activated receptor alpha (PPAR α) in the cellular fasting response: The PPAR α -null mouse as a model of fatty acid oxidation disorders." *Proceedings of the National Academy of Sciences* 96:7473-7478.
- Lu, Nick Z., and John A. Cidlowski. 2005. "Translational regulatory mechanisms generate N-terminal glucocorticoid receptor isoforms with unique transcriptional target genes." *Molecular Cell* 18:331-342.
- Ma, Lin, Luke N. Robinson, and Howard C. Towle. 2006. "ChREBP*Mlx is the principal mediator of glucose-induced gene expression in the liver." *J. Biol. Chem.* 281:28721-28730.
- Mandard, S., M. Müller, and S. Kersten. 2004. "Peroxisome proliferator-activated receptor a target genes." *Cellular and Molecular Life Sciences (CMLS)* 61:393-416.
- Martelli, Alberto M. et al. 1994. "Phosphoinositide signaling in nuclei of friend cells: phospholipase C {beta} down-regulation is related to cell differentiation." *Cancer Res* 54:2536-2540.
- Mascaro, Cristina et al. 1998. "Control of human muscle-type carnitine palmitoyltransferase I gene transcription by peroxisome proliferator-activated receptor." *J. Biol. Chem.* 273:8560-8563.

- Maxwell, Kara N., Raymond E. Soccio, Elizabeth M. Duncan, Ephraim Sehayek, and Jan L. Breslow. 2003. "Novel putative SREBP and LXR target genes identified by microarray analysis in liver of cholesterol-fed mice." *J. Lipid Res.* 44:2109-2119.
- Mitro, Nico et al. 2007. "The nuclear receptor LXR is a glucose sensor." *Nature* 445:219-223.
- Mittelstadt, Paul R., and Jonathan D. Ashwell. 2003. "Disruption of glucocorticoid receptor exon 2 yields a ligand-responsive C-terminal fragment that regulates gene expression." *Mol Endocrinol* 17:1534-1542.
- Moya-Garcia, Aurelio A., Miguel Angel Medina, and Francisca Sanchez-Jimenez. 2005. "Mammalian histidine decarboxylase: from structure to function." *BioEssays* 27:57-63.
- Mueller, C R. 1992. "The down-regulation of albumin transcription during regeneration is due to the loss of HNF-1 and the D-site transcription factors." *DNA and cell biology* 11:559-66.
- Odom, Duncan T. et al. 2004. "Control of pancreas and liver gene expression by HNF transcription factors." *Science* 303:1378-1381.
- Ono, Hiraku et al. 2003. "Hepatic Akt activation induces marked hypoglycemia, hepatomegaly, and hypertriglyceridemia with sterol regulatory element binding protein involvement." *Diabetes* 52:2905-2913.
- Peet, Daniel J. et al. 1998. "Cholesterol and bile acid metabolism are impaired in mice lacking the nuclear oxysterol receptor LXR[alpha]." *Cell* 93:693-704.
- Peters, Jeffrey, Connie Cheung, and Frank Gonzalez. 2005. "Peroxisome proliferator-activated receptor- α and liver cancer: where do we stand?." *Journal of Molecular Medicine* 83:774-785.
- Quinet, Elaine M. et al. 2006. "Liver X receptor (LXR)-{beta} regulation in LXR{alpha}-deficient mice: Implications for therapeutic targeting." *Mol Pharmacol* 70:1340-1349.
- Rebouissou, Sandra et al. 2007. "HNF1{alpha} inactivation promotes lipogenesis in human hepatocellular adenoma independently of SREBP-1 and carbohydrate-response element-binding protein (ChREBP) activation." *J. Biol. Chem.* 282:14437-14446.
- Repa, JJ, and DJ Mangelsdorf. 2003. "The role of orphan nuclear receptors in the regulation of cholesterol homeostasis." <http://arjournals.annualreviews.org/doi/abs/10.1146%2Fannurev.cellbio.16.1.459> (Accessed May 19, 2008).
- Ruminy, P. et al. 2001. "Gene transcription in hepatocytes during the acute phase of a systemic inflammation: from transcription factors to target genes." *Inflammation Research* 50:383-390.
- Schoneveld, Onard J.L.M., Ingrid C. Gaemers, and Wouter H. Lamers. 2004. "Mechanisms of glucocorticoid signalling." *Biochimica et Biophysica Acta (BBA) - Gene Structure and Expression* 1680:114-128.

- Seckl, Jonathan R., and Brian R. Walker. 2001. "Minireview: 11 β -hydroxysteroid dehydrogenase type 1-- A tissue-specific amplifier of glucocorticoid action." *Endocrinology* 142:1371-1376.
- Shingu, T, and P Bornstein. 1994. "Overlapping Egr-1 and Sp1 sites function in the regulation of transcription of the mouse thrombospondin 1 gene." *J. Biol. Chem.* 269:32551-32557.
- Shishido, Shoichiro et al. 2003. "Hydrogen peroxide overproduction in megamitochondria of troglitazone-treated human hepatocytes." *Hepatology* 37:136-147.
- Spear, B., L. Jin, S. Ramasamy, and A. Dobierzewska. 2006. "Transcriptional control in the mammalian liver: liver development, perinatal repression, and zonal gene regulation." *Cellular and Molecular Life Sciences (CMLS)* 63:2922-2938.
- Steffensen, Knut R., and Jan-Ake Gustafsson. 2004. "Putative metabolic effects of the liver X receptor (LXR)." *Diabetes* 53:S36-42.
- Stier, H et al. 1998. "Maturation of peroxisomes in differentiating human hepatoblastoma cells (HepG2): possible involvement of the peroxisome proliferator-activated receptor α (PPAR α)."*Differentiation* 64:55-66.
- Sun, Ronggai, Xinming Chen, and Vincent W. Yang. 2001. "Intestinal-enriched Kruppel-like factor (Kruppel-like factor 5) is a positive regulator of cellular proliferation." *J. Biol. Chem.* 276:6897-6900.
- Tamura, K, A Ono, T Miyagishima, T Nagao, and T Urushidani. 2006. "Profiling of gene expression in rat liver and rat primary cultured hepatocytes treated with peroxisome proliferators." *Journal of Toxicological Sciences* 31:471-490.
- Tien, Eric S, Joshua P Gray, Jeffrey M Peters, and John P Vanden Heuvel. 2003. "Comprehensive gene expression analysis of peroxisome proliferator-treated immortalized hepatocytes: identification of peroxisome proliferator-activated receptor alpha-dependent growth regulatory genes." *Cancer research* 63:5767-80.
- Trautwein, Christian et al. 1996. "C/EBP-beta/LAP controls down-regulation of albumin gene transcription during liver regeneration." *J. Biol. Chem.* 271:22262-22270.
- Xu, Jun et al. 2004. "Peroxisomal proliferator-activated receptor α deficiency diminishes insulin-responsiveness of gluconeogenic/glycolytic/pentose gene expression and substrate cycle flux." *Endocrinology* 145:1087-1095.
- You, Kyung-Ran, Ming-Jie Liu, Xue-Ji Han, Zee-Won Lee, and Dae-Ghon Kim. 2003. "Transcriptional regulation of the human transferrin gene by GADD153 in hepatoma cells." *Hepatology* 38:745-755.