

博士論文（要約）

Study on novel metabolic regulation by bile acids

（胆汁酸による新たな代謝調節に関する研究）

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Abbreviation

ASXN (Astaxanthin)
ACC (Acetyl-CoA carboxylase)
AMPK (5' AMP-activated protein kinase)
AICAR (5-Aminoimidazole-4-carboxamide ribonucleotide)
BA (Bile acid)
BAT (Brown adipose tissue)
BSEP (Bile Salt Export Pump)
CA (Cholic acid)
cAMP (Cyclic AMP)
ChIP assay (Chromatin immunoprecipitation)
CCND1 (Cyclin D1)
CDCA (Chenodeoxycholic acid)
CHX (Cyclohexamide)
CPT1 (Carnitine palmitoyltransferase I)
CsA (Cyclosporin A)
CXN (Canthaxanthin)
CYP27A1 (Cholesterol 27 alpha-hydroxylase)
CYP7A1 (Cholesterol 7 alpha-hydroxylase)
DCA (Deoxycholic acid)
DIO2 (Deiodinase, Iodothyronine, Type II; D2)
DPP4 (Dipeptidyl peptidase-4)
epi WAT (Epididymal white adipose tissue)
FASN (Fatty acid synthetase)
FGF15 (Fibroblast growth factor 15, mouse)
FGF19 (Fibroblast growth factor 19, human)
FGFR4 (Fibroblast growth factor receptor 4)
FST (Fisetin)
FXR (Farnesoid X receptor, or NR1H4)
G6P (Glucose 6-phosphate)
GCA (Glycocholic acid)
GCDCA (Glycochenodeoxycholic acid)
GDCA (Glycodeoxycholic acid)
GIP (Gastric inhibitory peptide)
GLCA (Glycodeoxycholic acid)
GLP1 (Glucagon-like peptide-1)

GOT (Glutamate oxaloacetate transaminase, AST)
GPCR (G protein-coupled receptor)
GPT (Glutamate pyruvate transaminase, ALT)
HDL (High-density lipoprotein)
HNF1a (Hepatocyte nuclear factor 1-alpha)
HDAC5 (Histone deacetylase 5)
HNF1a (Hepatocyte nuclear factor 4-alpha)
IBAT (Ileum bile acid transporter, or Apical Sodium Dependent Bile Acid Transporter)
INT777 (6 α -Ethyl-23(S)-methylcholic Acid, S-EMCA)
LCA (Lithocholic acid)
LDL (Low-density lipoprotein)
Luc (Luciferase)
LXR (Liver X receptor)
MTP (Microsomal triglyceride transfer protein)
NTCP (Na⁺-taurocholate cotransporting polypeptide)
OATP (Organic anion-transporting polypeptide)
OA (Oleanolic acid)
PEPCK (Phosphoenolpyruvate carboxykinase)
PGC-1 α (Peroxisome proliferator-activated receptor gamma coactivator 1-alpha)
PKA (Protein Kinase A)
RAR (Retinoic acid receptor)
RER (Respiratory exchange ratio)
RXR (Retinoid X receptor)
scWAT (Subcutaneous white adipose)
SREBP1c (Sterol regulatory element-binding transcription factor 1)
SHP (Small heterodimer partner)
T3 (3-5-3-Triiodothyronine)
T4 (Thyroxine)
TCA (Taurocholic acid)
TDCA (Taurodeoxycholic acid)
TG (Triglyceride)
TGR5 (Takeda G-protein-coupled receptor 5)
TLCA (Taurolithocholic acid)
UCP1 (Uncoupling protein 1)
UDCA (Ursodeoxycholic acid)

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