Scope of Journal

The American Journal of Physiology-Gastrointestinal and Liver Physiology reports the rapid changes taking place in gastrointestinal and liver research. Exciting new developments in the basic concepts of cell and organ function and new approaches in cell and molecular biology are reported while maintaining the traditional focus on physiology.

The journal's broad scope includes comprehensive coverage of normal and abnormal functions of the gastrointestinal tract, liver, pancreas, gallbladder, and salivary glands. Special features include subject table of contents and theme articles featuring concise, insightful perspectives.

With so many rapid changes taking place in the field, a subscription to AJP-Gastrointestinal and Liver Physiology is a must for all serious researchers in this area.

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A Few HOT Articles

Mechanism of action of cholecystokinin octapeptide on rat antrum, pylorus, and duodenum
U. Scheurer, L. Varga, E. Drack, H. R. Burki, F. Halter

Inflammation and Cancer I. Rodent models of infectious gastrointestinal and liver cancer
Arlin B. Rogers, James G. Fox

Inflammation and Cancer IV. Colorectal cancer in inflammatory bowel disease: the role of inflammation
Steven H. Itzkowitz, Xianyang Yio
Am. J. Physiol. Gastrointest. Liver Physiol. Jul 01, 2004; 287: 7-17

Hormonal Regulation of Lipolysis in Adipose Tissue
Kathy Jaworski, Eszter Sarkadi-Nagy, Robin Duncan, Maryam Ahmadian, Hei Sook Sul

TLRs in the Gut I. The role of TLRs/Nods in intestinal development and homeostasis
Ian R. Sanderson, W. Allan Walker

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ACh acetylcholine
ACTH adrenocorticotropic hormone
ADP (CDP), GDP, IDP, UDNP, XDP, TDP adenosine 5'-diphosphate (and similarly for cytidine, guanosine, thymidine)
AM acetoxyethyl ester
AMP, etc. adenosine 5'-monophosphate, etc.
ANG I, etc. angiotensin I, etc.
ANOVA analysis of variance
ANOVA analysis of variance
ANTPase, etc. adenosine 5'-triphosphatase, etc.
AVP arginine vasopressin
BAPTA 1,2-bis(2-aminophenoxy)ethane-N,N,N',N'-tetraacetic acid
BCSCEF 2',7'-bis(2-carboxyethyl)-5(6)-carboxyfluorescein
bpg base pair(s)
B SA bovine serum albumin
C Ca(II)/calmodulin-dependent kinase
CAMP, etc. adenosine 3',5'-cyclic monophosphate, etc.
CCCP carbonyl cyanide m-chlorophenylhydrazone
cAMP, etc. adenosine 3',5'-cyclic monophosphate, etc.
CCK cholecystokinin
cCoA coenzyme A (also, acyl-CoA)
CRF corticotropin-releasing factor
cGAP growth-associated protein
cGTP Guanosine 5'-triphosphate
cGTPyS guanosine 5'-yS(3'-phosphothioate)
cGSK glycogen synthetase kinase

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CH hemoglobin
Hb hematoglobin
HBSS Hank's balanced salt solution
Hct hematocrit
HDL high-density lipoprotein
HEPES N-2-hydroxyethylpiperazine-N'-2-ethanesulfonic acid
HETE hydroxyeicosatetraenoic acid
HPLC high-performance liquid chromatography
HSP high-sulfur protein
ICAM intercellular adhesion molecule
IFN interferon
IFN-γ, IFN-β interferon growth factor I and II
IgG, etc. immunoglobulin G, etc.
IIK IkB kinase
IL-1 interleukin-1 (IL-2, etc.)

IRM isotope ratio mass spectrometry
JAK Janus-activated kinase
JNK c-Jun NH2-terminal kinase
JNK c-Jun NH2-terminal kinase
JNK c-Jun NH2-terminal kinase
JNK JNK kinase
kJ kilobase(s)
k k equilibrium constant related to Michaelis-Menten kinetics (similarly, Kd, Ks, Kd, Ks, Kd, Ks, Kd, Ks

LDL low-density lipoprotein
LH luteinizing hormone
LH-RH luteinizing hormone-releasing hormone
LPS lipopolysaccharide
MAb monoclonal antibody
MAPK mitogen-activated protein kinase
MAPK/ERK MAP kinase (also known as MEK or MKK)
MAPK/ERK MAP kinase activated protein kinase
MEM Eagle’s minimum essential medium
MES 2-(N-morpholinosulfamic acid
MKP MAP kinase phosphatase
MOPS 3-(N-morpholino)propanesulfonic acid
MPA myeloperoxidase
Mr relative molecular mass (unitless)
MSI magnetic resonance imaging
MSH melanocyte-stimulating hormone
NAD nicotinamide adenine dinucleotide
NADH reduced nicotinamide adenine dinucleotide
NAPD nicotinamide adenine dinucleotide phosphate
Nf-kB nuclear factor-kB
NGF nerve growth factor
NMH nuclear magnetic resonance
NSAID nonsteroidal anti-inflammatory drug
nM/2 nucleotide(s)

PAGE polyacrylamide gel electrophoresis
PAH p-aminophenolic acid
PBS phosphate-buffered saline
PCNA proliferating cell nuclear antigen
PCR polymerase chain reaction
PDEG platelet-derived growth factor
PET positron emission tomography
PG prostaglandin (PGE, PGF, PGF)

Pi inorganic phosphate
Pipes piperazine-N,N'-bis(2-ethanesulfonic acid)
PKA cAMP-dependent protein kinase
PKB, PKC protein kinase B and C
PLC phospholipase C (similarly, PLA)
PLA phospholipase A
PMF phenylmethylsulfonyl fluoride
PMCA protons cell nuclear antigen
PO2 partial O2 pressure or O2 tension (similarly, PCO2)
POPOP 1,4-bis[2-(5-phenyloxazolyl)]benzene

PPD 2,4-dimethylthiazole

PS1 pounds per square inch
PTK protein tyrosine kinase
PRA radioimmunoassay
RNA ribonucleic acid (also, mRNA, rRNA, tRNA, rRNA)
RNase ribonuclease
rpm revolutions per minute
RT reverse transcriptase
SAF P stress-activated protein kinase
SAF PK stress-activated protein kinase kinase (also known as SKK)
SSD sodium dodecyl sulfate
SSC standard sodium citrate
SOD superoxide dismutase
STAT signal transducer and activator of transcription
TAME N-tosyl-L-arginine methyl ester
TCA trichloroacetic acid
TEAE triethylaminoethyl

TES N-tris(hydroxymethyl)methyl-2-aminoethanesulfonic acid
TLC thin-layer chromatography
TNF tumor necrosis factor
TFA 12-O-tetradecanoylphorbol 13-acetate
TPCK N-tosyl-L-phenylalanyl chloromethyl ketone
TRH thyrotropin releasing hormone
Trit thryrsodymyethylammonium
TSH thyrothropin-stimulating hormone
TTX tetradotoxin
UV ultraviolet
VCAM vascular cell adhesion molecule
VEGF vascular endothelial growth factor
VIP vasoactive intestinal peptide
VLDL very low-density lipoprotein
Vmax maximum velocity or maximum rate of change or transition
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