

# APPENDIX 4:

## Abbreviations and Acronyms

5-ASA	5-aminosalicylic acid
5HT	5-hydroxytryptamine
ABCA1	ATP-binding cassette, subfamily A, member 1
ABCG5/G8	ATP-binding cassette transporters G5 and G8
ACTH	adrenocorticotrophic hormone
AIDS	acquired immunodeficiency syndrome
AIEC	adherent invasive <i>E. coli</i>
AIH	autoimmune hepatitis
AIP	autoimmune pancreatitis
ALADIN	alacrima-achalasia-adrenal insufficiency neurologic disorder protein
AMP	adenosine monophosphate
APC	adenomatosis polyposis coli
APJ	apical junctional complex
ApoB	apolipoprotein B
ApoE	apolipoprotein E
APRIL	a proliferation inducing ligand
ATG16L1	ATG16 autophagy related 16-like 1 protein
BAFF	B cell-activating factor of the tumor necrosis factor family
BMP	bone morphogenic protein
BRCA2	breast cancer type 2 susceptibility protein
CCK	cholecystokinin
CCR3	chemokine receptor 3
CD	Crohn's disease
CD1/CD25/CD40	cluster of differentiation molecules
CDX2	caudal-related homeobox 2
CF	cystic fibrosis
CFTR	cystic fibrosis transmembrane conductance regulator
CI	colonic ischemia
CIMP	CpG island methylator phenotype
CNS	central nervous system
COX	cyclooxygenase
CRF	corticotropin-releasing factor
CRH	corticotropin-releasing hormone
CT	computed tomography

DC	dendritic cells
DDICC	Digestive Diseases Interagency Coordinating Committee
DDLT	deceased donor liver transplant
DGAT	diacylglycerol acetyltransferase
DHHS	U.S. Department of Health and Human Services
DNA	deoxyribonucleic acid
EAEC	enteroaggregative <i>E. coli</i>
EGID	eosinophilic gastrointestinal disorders
EGJ	esophagogastric junction
ENS	enteric nervous system
EPEC	enteropathogenic <i>E. coli</i>
ER	endoplasmic reticulum
ERCP	endoscopic retrograde cholangio-pancreatography
EUS	endoscopic ultrasound
FABP	fatty acid binding protein
FAP	familial adenomatous polyposis
FATP	fatty acid transport protein
FDA	U.S. Food and Drug Administration
FDG-PET	2-[18F] fluoro-2-deoxy-D-glucose positron emission tomography
FGF	fibroblast growth factor
FIC	Fogarty International Center
fMRI	functional magnetic resonance imaging
FoxP3	forkhead box P3 transcription factor
FXR	farnesoid X receptor
GABAB	gamma-aminobutyric acid B receptor
GERD	gastroesophageal reflux disease
Gfi	growth factor independence protein
GI	gastrointestinal
GIP	glucose-dependent insulintropic polypeptide
GIST	gastrointestinal stromal tumor
GLP-2	glucagon-like peptide-2
HBV	hepatitis B virus
HCC	hepatocellular carcinoma
HCV	hepatitis C virus
HDL	high-density lipoprotein
HEV	hepatitis E virus
HFE	hemochromatosis gene
HIV	human immunodeficiency virus
HLA	human leukocyte antigen
HNPCC	hereditary nonpolyposis colorectal cancer
hPEPT1	human peptide transporter 1

IBD	inflammatory bowel diseases
IBS	irritable bowel syndrome
ICC	interstitial cells of Cajal
ICD	International Classification of Diseases
IgA	immunoglobulin A
IgG	immunoglobulin G
IGF-1	insulin-like growth factor-1
IL	interleukin
Insig-1	insulin-induced gene 1
IPMN	intraductal papillary mucinous neoplasm
ISC	intestinal stem cell
LDLT	living donor liver transplant
LES	lower esophageal sphincter
Lgr5	leucine-rich repeat-containing G-protein coupled receptor 5
LRR	leucine-rich repeat
LXR	liver X receptor
MAdCAM-1	mucosal addressin cell adhesion molecule 1
Math-1	mouse atonal homolog 1
MALT	mucosa associated lymphoid tissue
MCN	mucinous cystic neoplasm
MCT	monocarboxylate transporter
Mdr2	multiple drug resistance 2
MELD	Model for End-Stage Liver Disease
MEN 1	multiple endocrine neoplasia type 1
MGAT	mannoside acetylglucosaminyltransferase
MLCK	myosin light chain kinase
MMR	mismatch repair
MRI	magnetic resonance imaging
MRP2	multidrug resistance-associated protein family
MSC	mesenchymal stem cell
MYH	Mut Y homolog
NASH	non-alcoholic steatohepatitis
NCCAM	National Center for Complementary and Alternative Medicine
NCI	National Cancer Institute
NCMHD	National Center on Minority Health and Health Disparities
NCRR	National Center for Research Resources
NEC	necrotizing enterocolitis
NERD	non-erosive reflux disease
NF-κB	Nuclear Factor kappa-B
NHGRI	National Human Genome Research Institute
NHLBI	National Heart, Lung, and Blood Institute

NIA	National Institute on Aging
NIAAA	National Institute on Alcohol Abuse and Alcoholism
NIAID	National Institute of Allergy and Infectious Diseases
NIBIB	National Institute of Biomedical Imaging and Bioengineering
NICHD	<i>Eunice Kennedy Shriver</i> National Institute of Child Health and Human Development
NIDA	National Institute on Drug Abuse
NIDCR	National Institute of Dental and Craniofacial Research
NIDDK	National Institute of Diabetes and Digestive and Kidney Diseases
NIEHS	National Institute of Environmental Health Sciences
NIH	National Institutes of Health
NIMH	National Institute of Mental Health
NINDS	National Institute of Neurological Disorders and Stroke
NINR	National Institute of Nursing Research
NK	natural killer
NKT	natural killer T cell
NO	nitric oxide
NOTES	natural orifice transluminal endoscopic surgery
NPC1L1	Niemann-Pick C1 Like 1 protein
NSAID	non-steroidal anti-inflammatory drug
NSC	neural stem cell
OD	NIH Office of the Director
OPASI	Office of Portfolio Analysis and Strategic Initiatives
ORS	oral rehydration solution
PanIN	pancreatic intraepithelial neoplasia
PBC	primary biliary cirrhosis
PCR	polymerase chain reaction
PDC-E2	pyruvate dehydrogenase complex-E2
PDGFRA	platelet-derived growth factor receptor, alpha polypeptide
PELD	Pediatric End-Stage Liver Disease
PET	positron emission tomography
PN	parenteral nutrition
PPAR	peroxisome proliferator-activated receptor
PPI	proton pump inhibitor
PSC	primary sclerosing cholangitis
PTEN	phosphatase and tensin homolog
PUD	peptic ulcer disease
PYY	peptide YY
RAR	retinoic acid receptor
rDNA	ribosomal deoxyribonucleic acid
RNA	ribonucleic acid
Runx3	runt-related transcription factor 3

RV	rotavirus
SBP	spontaneous bacterial peritonitis
SBS	short bowel syndrome
Scap	SREBP cleavage-activating protein
SCFA	short chain fatty acids
SERT	serotonin reuptake transporter
siRNA	small interfering ribonucleic acid
SNP	single nucleotide polymorphism
SPECT	single photon emission computed tomography
SPINK1	serine protease inhibitor, Kazal type 1
SQUID	superconducting quantum interference device
SREBP	sterol-regulatory element binding protein
STAT3	signal transducer and activator of transcription 3
STEP	serial transverse enteroplasty
TE/RM	tissue engineering/regenerative medicine
TFF	trefoil factor
TGF	transforming growth factor
TIMP	tissue inhibitor of metalloproteinases
TLR	Toll-like receptor
TNF	tumor necrosis factor
TRPV1	transient receptor potential vanilloid 1
TSLP	thymic stromal lymphopoietin
UC	ulcerative colitis
VEGF	vascular endothelial growth factor
ZES	Zollinger-Ellison syndrome