

## Acronyms

Following are the expanded meanings of acronyms or acronym-like abbreviations for chemical, agricultural, biomedical, or pharmaceutical terms, agencies, or organizations related to information found in *The Merck Index*.

AAAS	American Association for the Advancement of Science	APTT	Activated partial thromboplastin time
AALAS	American Association for Laboratory Animal Science	ARC	AIDS-related complex American Red Cross
AAPS	American Association of Pharmaceutical Scientists	ARDS	Acute respiratory distress syndrome Adult respiratory distress syndrome
AAS	Atomic absorption spectroscopy	ARMS	Alveolar rhabdomyosarcoma
AAV	Adeno-associated virus	ASBMB	American Society for Biochemistry and Molecular Biology
AB	Aktiebolag	ASHG	American Society for Human Genetics
ABC	ATP binding cassette	ASHP	American Society of Hospital-System Pharmacists
ABPI	Association of the British Pharmaceutical Industry	ASIST	American Society for Information Science and Technology
ACAT	Acyl-CoA cholesterol transferase	ASM	American Society for Microbiology
ACE	Angiotensin converting enzyme	ASPET	American Society for Pharmacology and Experimental Therapeutics
ACP	Acyl carrier protein	AST	Asparate amino transferase
ACRP	American College of Physicians	ASTM	American Society for Testing and Materials
ACS	Association of Clinical Research Professionals American Cancer Society American Chemical Society American College of Surgeons	ATCC	American Type Culture Collection
ACTH	Adrenocorticotrophic hormone	AUC	Area under the curve
AD	Alzheimer's disease	AV	Atrioventricular
ADA	American Dental Association	AVMA	American Veterinary Medical Association
ADCC	Antibody-dependent cellular cytotoxicity	BAC	Bacterial artificial chromosome
ADD	Attention deficit disorder	BACE	Beta-site amyloid precursor protein cleaving enzyme
ADE	Adverse drug event	BACR	British Association for Cancer Research
ADH	Alcohol dehydrogenase	BAL	Blood alcohol level
ADHD	Attention deficit hyperactivity disorder	BAN	British Approved Name
ADI	Acceptable daily intake	BBB	Blood-brain barrier
ADL	Activities of daily living	BBSRC	Biotechnology and Biological Sciences Research Center (UK)
ADME	Absorption, distribution, metabolism, excretion	BCG	Bacillus Calmette-Guerin
ADR	Adverse drug reaction	BCPC	British Crop Protection Council
AE	Adverse event	BCRP	Breast cancer resistance protein
AFC	Antibody forming cells	BES	Balanced electrolyte solution
AFLP	Amplified fragment length polymorphism	BGG	Bovine gamma globulin
AFM	Atomic force microscopy	BIBRA	British Industrial Biological Research Association
AG	Aktiengesellschaft	BLA	Biologics License Application (US)
AGE	Advanced glycation endproduct	BMA	British Medical Association
AHA	American Heart Association	BMD	Bone mineral density
AHFS	American Hospital Formulary Service	BMI	Body mass index
AICHe	American Institute of Chemical Engineers	BMR	Basal metabolic rate
AIDS	Acquired immune deficiency syndrome	BNF	British National Formulary
AIF	Apoptosis-inducing factor	BOD	Biochemical oxygen demand
AII	Angiotensin II	BP	British Pharmacopeia
ALA	Aminolevulinic acid	BPH	Benign prostatic hyperplasia Benign prostatic hypertrophy
ALG	Anti-lymphocyte globulin	BRM	Biological response modifier
ALL	Acute lymphoblastic leukemia	BSA	Bovine serum albumin
ALS	Amyotrophic lateral sclerosis Anti-lymphocyte serum	BSE	Bovine spongiform encephalopathy
ALT	Alanine aminotransferase	BSI	British Standard Institutes
AMA	American Medical Association	BUN	Blood urea nitrogen
AMD	Age-related macular degeneration	BV	Besloten Vennootschap
AMI	Acute myocardial infarction	BVA	British Veterinary Association
AML	Acute myeloid leukemia	CA	Chemical Abstracts
ANDA	Abbreviated New Drug Application	CABG	Coronary artery bypass grafts
ANOVA	Analysis of variance	CAD	Coronary artery disease
ANP	Atrial natriuretic peptide	CAM	Cell adhesion molecules Complementary and alternative medicine
ANSI	American National Standards Institute	cAMP	Cyclic adenosine monophosphate
AOAC	Association of Official Analytical Chemists	CAS	Chemical Abstracts Service
APC	Antigen presenting cells	CAT	Computerized axial tomography
APhA	American Pharmaceutical Association	CB	Cannabinoid
API	Active pharmaceutical ingredient American Petroleum Institute	CBC	Complete blood count
APOE	Apolipoprotein E	CBER	Center for Biologics Evaluation and Research (US)
APP	Amyloid precursor protein		
APPI	Academy of Pharmaceutical Physicians and Investigators		
APT	Alum precipitated toxoid		

## Acronyms (Continued)

CBF	Cerebral blood flow	CVM	Center for Veterinary Medicine (US)
CCD	Charge-coupled device	DC	Dendritic cells
CCK	Cholecystokinin	DCL	Diffuse cutaneous leishmaniasis
CD	Circular dichroism	DEA	Drug Enforcement Administration (US)
	Clusters of differentiation	DEFRA	Department for Environment, Food & Rural Affairs (UK)
CDC	Centers for Disease Control and Prevention (US)	DXA	Dual-energy X-ray absorptiometry
CDER	Center for Drug Evaluation and Research (US)	DFA	Direct fluorescent antibody
CDK	Cyclin dependent kinase	DHA	Docosahexaenoic acid
cDNA	Complementary deoxyribonucleic acid	DHFR	Dihydrofolate reductase
CE	Capillary electrophoresis	DHHS	Department of Health and Human Services (US)
CEA	Carcinoembryonic antigen	DIC	Disseminated intravascular coagulation
CETP	Cholesteryl ester transfer protein	DKA	Diabetic ketoacidosis
CF	Cystic fibrosis	DM	Diabetes mellitus
CFA	Complete Freund's adjuvant	DMARD	Disease modifying antirheumatic drug
CFC	Chlorofluorocarbon	DNA	Deoxyribonucleic acid
CFR	Code of Federal Regulations (US)	DOD	Department of Defense (US)
CFSAN	Center for Food Safety and Applied Nutrition (US)	DPP	Dipeptidyl peptidase
CFT	Complement fixation test	DPT	Diphtheria, pertussis, tetanus
CFTR	Cystic fibrosis transmembrane regulator	DRG	Diagnosis related grouping
CFU	Colony forming unit	DRSP	Drug-resistant <i>Streptococcus pneumoniae</i>
cGMP	Cyclic guanosine monophosphate	ds	Double stranded
CHD	Coronary heart disease	DSC	Differential scanning calorimetry
CHF	Chronic heart failure	DTA	Differential thermal analysis
	Congestive heart failure	DTaP	Diphtheria-Tetanus-acellular-Pertussis
CHO	Chinese hamster ovary (cells)	DTC	Direct to consumer
CI	Colour Index	DTH	Delayed type hypersensitivity
CIMS	Chemical ionization mass spectroscopy	DVT	Deep venous thrombosis
CIP	Cahn-Ingol-Prelog	EAA	Excitatory amino acid
CIR	Cosmetic Ingredient Review (US)	EAC	Erythrocyte coated by antibody and complement
CJD	Creutzfeldt-Jakob disease	EAE	Experimental allergic encephalomyelitis
CKD	Chronic kidney disease		Experimental autoimmune encephalomyelitis
CLA	Cutaneous lymphocyte antigen	EBI	European Bioinformatics Institute
CLL	Chronic lymphocytic leukemia	EBT	Electron beam tomography
CMC	Critical micelle concentration	EBV	Epstein Barr virus
CMI	Cell mediated immunity	EC	Effective concentration
CML	Cell-mediated lymphocytotoxicity		Electron capture
	Chronic myelogenous leukemia		Enzyme Commission
CMV	Cytomegalovirus	ECB	European Commission
CNS	Central nervous system		European Chemicals Bureau
CoA	Coenzyme A		European Congress on Biotechnology
COD	Chemical oxygen demand	ECETOC	European Center for Ecotoxicology and Toxicology of Chemicals
COMP	Committee for Orphan Medicinal Products (EU)	ECF	Extracellular fluid
COMT	Catechol- <i>o</i> -methyltransferase	ECF-A	Eosinophil chemotactic factor of anaphylaxis
COPD	Chronic obstructive pulmonary disease	ECG	Electrocardiogram
COSY	Correlation spectroscopy	ECM	Extracellular matrix
COX	Cyclo-oxygenase	ED	Effective dose
CP	Canadian Pharmacopoeia		Erectile dysfunction
	Chemically pure	EDG	Electron donating group
CPAP	Continuous positive airway pressure	EDHF	Endothelial-derived hyperpolarizing factor
CPR	Cardiopulmonary resuscitation	EDRF	Endothelium-derived relaxing factor
CRADA	Cooperative Research and Development Agreement (US)	EDTA	Ethylenediaminetetraacetic acid
		EEG	Electroencephalogram
CRF	Chronic renal failure	EFA	Essential fatty acids
CRH	Corticotropin-releasing hormone	EFB	European Federation of Biotechnology
CRO	Contract research organization	EFPIA	European Federation of Pharmaceutical Industries and Associations
CSF	Cerebrospinal fluid	EGA	Evolved gas analysis
	Colony stimulating factors	EGF	Epidermal growth factor
CSIRO	Commonwealth Scientific and Industrial Research Organization (Australia)	EGFR	Epidermal growth factor receptor
CSM	Committee on Safety of Medicines (UK)	EHR	Electronic Health Records
CSP	Cold shock protein	EINECS	European Inventory of Existing Commercial Chemical Substances
CSFS	Canadian Society for Pharmaceutical Sciences	EKG	Elektrokardiographie
CT	Charge transfer	ELINCS	EHR-Lab Interoperability and Connectivity Standards
	Computed tomography		European List of Notified Chemical Substances
CTFA	Cosmetic, Toiletry, and Fragrance Association	ELISA	Enzyme-linked immunosorbent assay
CTL	Cytotoxic T lymphocyte	EMBO	European Molecular Biology Organization
CV	Ceiling value		
CVA	Cerebral vascular accidents		
CVD	Cardiovascular disease		
	Chemical vapor deposition		

## Acronyms (Continued)

EMEA	European Medicines Evaluation Agency	GBS	Guillain-Barré syndrome
EMG	Electromyography	GC	Gas chromatography
EMSA	Electrophoretic mobility shift assay	GCPF	Global Crop Protection Federation
ENDOR	Electron-nuclear double resonance	GEM	Genetically engineered microorganism
EORTC	European Organization for Research and Treatment of Cancer		Genetically engineered mouse
EPA	Eicosapentaenoic acid	GERD	Gastroesophageal reflux disease
	Environmental Protection Agency	GF	Growth factor
EPO	Erythropoietin	GFP	Green fluorescent protein
	European Patent Office	GFR	Glomerular filtration rate
	European Pharmacopoeia Office	GGT	Gamma glutamyl transferase
EPPO	European and Mediterranean Plant Protection Organization	GH	Growth hormone
EPR	Electron paramagnetic resonance	GHRH	Growth hormone releasing hormone
EPS	Extracellular polysaccharide	GI	Gastrointestinal
ER	Endoplasmic reticulum	GLA	Gamma-linolenic acid
	Estrogen receptor	GLC	Gas-liquid chromatography
ERCP	Endoscopic retrograde cholangiopancreatography	GLP	Glucagon like peptide
ES	Embryonic stem (cells)	GLP	Good laboratory practices
ESA	Ecological Society of America	GmbH	Gesellschaft mit Beschränkter Haftung
	Entomological Society of America	GMO	Genetically modified organism
	European Space Agency	GMP	Good manufacturing practices
ESF	European Science Foundation	GnRH	Gonadotropin-releasing hormone
ESHG	European Society of Human Genetics	GPC	Gel permeation chromatography
ESP	End sequence profiling	GPCR	G protein-coupled receptor
ESR	Electron spin resonance	GRAS	Generally recognized as safe
	Erythrocyte sedimentation rate	GTP	Guanosine triphosphate
ESRD	End-stage renal disease	GVH	Graft-versus-host
EST	Expressed sequence tag	HAART	Highly active anti-retroviral therapy
EU	European Union	HAT	Histone acetyl transferase
EUP	Experimental Use Permit (US)	HBV	Hepatitis B virus
EVM	European Vaccine Manufacturers	HC	Heavy chain
EWG	Electron withdrawing group		Hematopoietic cell
FA	Fanconi anemia	HCFC	Hydrochlorofluorocarbon
FAB	Fast atom bombardment	HCL	Hairy cell leukemia
FABP	Fatty acid binding protein	HCV	Hepatitis C virus
FACS	Fluorescence activated cell sorting	HD	Huntington's Disease
FAO	Food and Agriculture Organization of the United Nations	HDAC	Histone deacetylase
FASEB	Federation of American Societies for Experimental Biology	HDL	High density lipoprotein
FCA	Freund's complete adjuvant	HEK	Human embryonic kidney (cells)
FCC	Food Chemicals Codex (US)	hESC	Human embryonic stem cell
FCS	Fetal calf serum	HETE	Hydroxyeicosatetraenoic acid
FDA	Food and Drug Administration (US)	HFC	Hydrofluorocarbon
FEBS	Federation of European Biochemical Societies	HGF	Hepatocyte growth factor
FEMS	Federation of European Microbiological Societies	HGG	Human gamma globulin
FEV	Forced expiratory volume	HGH	Human growth hormone
FFDCA	Federal Food, Drug, and Cosmetic Act (US)	HHS	Health and Human Services (US)
FGF	Fibroblast growth factor	Hib	Hemophilus influenza B
FIA	Freund's incomplete adjuvant	HIPAA	Health Insurance Portability and Accountability Act (US)
FIP	Fédération Internationale Pharmaceutique	HIV	Human immunodeficiency virus
FISH	Fluorescence <i>in situ</i> hybridization	HLA	Human leukocyte antigen
FOI	Freedom of information	HLB	Hydrophilic/Lipophilic balance
FP	Fusion protein	HMO	Health maintenance organization
FPLC	Fast performance liquid chromatography	HOMO	Highest occupied molecular orbital
	Fast protein liquid chromatography	HPA	Hypothalamic-pituitary-adrenal
FRET	Fluorescent resonance energy transfer	HPB	Health Protection Branch (Canada)
FSH	Follicle-stimulating hormone	HPBL	Human peripheral blood lymphocyte
FT	Fourier transform	HPLC	High performance liquid chromatography
FTC	Federal trade commission (US)		High pressure liquid chromatography
FTIR	Fourier transform infrared (spectroscopy)	HPV	Human papillomavirus
FWHM	Full width at half maximum	HRT	Hormone replacement therapy
FXR	Farnesoid X receptor	HSA	Human serum albumin
FXS	Fragile X syndrome	HSC	Hematopoietic stem cell
GABA	Gamma amino butyric acid	HSP	Heat shock protein
GALT	Gut associated lymphoid tissue	HSV	Herpes simplex virus
GAP	Good agricultural practices	HTLV	Human T lymphotropic virus
	GTPase activating protein	HUGO	Human Genome Organization
		HUVEC	Human umbilical vein endothelial cell
		IACR	International Association of Cancer Registries
		IACUC	Institutional Animal Care and Use Committee (US)

## Acronyms (Continued)

IAEA	International Atomic Energy Agency	LC	Lethal concentration
IARC	International Agency for Research on Cancer	LD	Liquid chromatography
IBD	Inflammatory bowel disease	LDH	Lethal dose
IBS	Irritable bowel syndrome	LDL	Lactic dehydrogenase
IC	Inhibitory concentration	LED	Low density lipoprotein
ICAM	Intercellular adhesion molecules	LED	Light-emitting diode
ICC	Interstate Commerce Commission (US)	LES	Lowest effective dose
ICF	Intracellular fluid	LFA	Lower esophageal sphincter
ICFA	Incomplete Freund's adjuvant	LH	Leukocyte functional age
ICGEB	International Center for Genetic Engineering and Biotechnology	LHRH	Luteinizing hormone
ICP	Intracranial pressure	LHRH	Luteinizing hormone releasing hormone
ICSI	Intracytoplasmic sperm injection	LLC	Limited Liability Company
ID	Inhibitory dose	LM	Light microscopy
	Intradermal	LOAEL	Lowest observed adverse effect level
IDDM	Insulin dependent diabetes mellitus	LOEL	Lowest observed effect level
IFN	Interferon	LOH	Loss of heterozygosity
Ig	Immunoglobulin	LPS	Lipopolysaccharide
IGF	Insulin-like growth factor	LT	Leukotriene
IGR	Insect growth regulator	LTR	Long terminal repeat
IHD	Ischemic heart disease	LUMO	Lowest unoccupied molecular orbital
IL	Interleukin	LVEDD	Left ventricular end-diastolic diameter
	Ionic liquids	LVEF	Left ventricular ejection fraction
ILD	Interstitial lung diseases	LXR	Liver X receptor
IM	Intramuscular	mAb	Monoclonal antibody
IMB	Irish Medicine Board	MAC	Maximum allowable concentration
IN	Intranasal	MALDI	Matrix-assisted laser desorption/ionization
INCI	International Nomenclature Cosmetic Ingredient	MALT	Mucosal-associated lymphoid tissue
IND	Investigational New Drug (application) (US)	MAOI	Monoamine oxidase inhibitor
INN	International Nonproprietary Name	MAPK	Mitogen-activated protein kinase
iNOS	Inducible nitric oxide synthase	MBP	Myelin basic protein
INRIA	Institut National de Recherche en Informatique et en Automatique (Fr)	MCHC	Mean corpuscular hemoglobin concentration
IOBC	International Organization for Biological Control	MCV	Mean corpuscular volume
		MD	Muscular dystrophy
IOTF	International Obesity Task Force	MDD	Major depressive disorder
IP	Intraperitoneal	MDR	Multidrug resistant
IPPB	Intermittent positive pressure breathing	MEFV	Maximal expiratory flow volume
IPT	Individual perception threshold	MEL	Maximum exposure limit
IPV	Inactivated polio vaccine	MF	Molecular formula
IRB	Institutional review board	MGD	Mouse genome database
ISO	International Organization for Standardization	MHC	Major histocompatibility complex
ISS	Ion scattering spectroscopy	MHRA	Medicines and Healthcare products Regulatory Agency (UK)
ITP	Idiopathic thrombocytopenic purpura	MHW	Ministry of Health and Welfare (Japan)
IU	International Units	MI	Myocardial infarction
IUPAC	International Union of Pure and Applied Chemistry	MLCT	Metal to ligand charge transfer
IV	Intravenous	MLD	Minimum lethal dose
IVF	<i>in vitro</i> fertilization	MLR	Mixed lymphocyte reaction
IVP	Intravenous pyelogram	MLV	Modified live virus
JAN	Japanese Accepted Name	MMP	Matrix metalloproteinase
JCIC	Japanese Cosmetic Ingredients Codex	MMR	Measles-mumps-rubella (vaccine)
JCPA	Japan Crop Protection Association	MPL	Maximum permissible level
JNK	c-Jun NH <sub>2</sub> -terminal kinase	MPS	Mucopolysaccharidosis
JP	Japanese Pharmacopoeia	MRI	Magnetic resonance imaging
JPMA	Japan Pharmaceutical Manufacturers Association	MRL	Maximum residue level
JSCI	Japanese Standards of Cosmetic Ingredients	mRNA	Messenger ribonucleic acid
JSFA	Japanese Standards of Food Additives	MRP	Multidrug resistance protein
KG	Kommanditgesellschaft	MRSA	Methicillin-resistant <i>Staphylococcus aureus</i>
KGaA	Kommanditgesellschaft auf Aktien	MS	Mass spectrometry
KK	Kabushiki Kaishi		Multiple sclerosis
KLH	Keyhole limpet hemocyanin	MSDS	Material Safety Data Sheet
KPA	Kidney plasminogen activator	MTC	Maximum tolerable concentration
LAB	Lactic acid bacteria	MTD	Maximum tolerated dose
LAD	Lactic acid dehydrogenase	MTEL	Maximum tolerated exposure level
	Left anterior descending	MW	Molecular weight
	Lymphocyte-activating determinant	NABR	National Association for Biomedical Research (US)
LAIV	Live attenuated influenza vaccine	NACHGR	National Advisory Council for Human Genome Research (US)
LAK	Lymphokine activated killer (cell)	NAD	Nicotinamide adenine dinucleotide
LAMMA	Laser microprobe mass analysis	NADH	Nicotinamide adenine dinucleotide (reduced form)
LATS	Long acting thyroid stimulator		

## Acronyms (Continued)

NADP	Nicotinamide adenine dinucleotide phosphate	PAF	Platelet activating factor
NADPH	Nicotinamide adenine dinucleotide phosphate (reduced form)	PAGE	Polyacrylamide gel electrophoresis
NAL	National Agricultural Library (US)	PAH	Poly-aromatic hydrocarbons
NAS	National Academy of Sciences (US)	PAW	Pulmonary artery wedge
NASA	National Aeronautics and Space Administration (US)	PBC	Peripheral blood cell
NBS	National Bureau of Standards (US)	PBS	Phosphate buffered saline
NCBI	National Center for Biotechnology Information (US)	PBSC	Peripheral blood stem cell
NCE	New Chemical Entity	PCA	Passive cutaneous anaphylaxis
NCGR	National Center for Genome Resources (US)	PCB	Polychlorinated biphenyls
NCHGR	National Center for Human Genome Research (US)	PCP	Pneumocystis carinii pneumonia
NCI	National Cancer Institute (US)		Primary care physician
NCIC	National Cancer Institute of Canada		Primary care provider
NCID	National Center for Infectious Diseases (US)	PCR	Polymerase chain reaction
NCTC	National Collection of Type Cultures (UK)	PCT	Patent Co-operation Treaty
NDA	New Drug Application (US)	PCV	Packed cell volume
NDO	Non-digestible oligosaccharides	PD	Pharmacodynamics
NEP	Neutral endopeptidase	PDE	Phosphodiesterase
NER	Nucleotide excision repair	PDGF	Platelet-derived growth factor
NF	National Formulary (US)	PDR	Physicians Desk Reference
NFKB	Nuclear factor kappa B	PDT	Photodynamic therapy
NGF	Nerve growth factor	PE	Phosphatidylethanolamine
NHGRI	National Human Genome Research Institute (US)	PEEP	Peak end expiratory pressure
NICE	National Institute for Health and Clinical Excellence (UK)	PEF	Peak expiratory flow
NIDDM	Non-insulin dependent diabetes mellitus	PEG	Polyethylene glycol
NIH	National Institutes of Health (US)	PES	Photoelectron spectroscopy
NIMH	National Institute of Mental Health (US)	PET	Positron emission tomography
NIOSH	National Institute for Occupational Safety and Health (US)	PFC	Plaque-forming cell
NIST	National Institute for Standards and Technology (US)	PFGE	Pulsed-field gel electrophoresis
NK	Natural killer (cell)	PG	Prostaglandin
NK	Neurokinin	PGES	Prostaglandin E synthase
NLM	National Library of Medicine (US)	PHA	Phytohemagglutinin
NMDA	N-methyl-D-aspartate	PhRMA	Pharmaceutical Research and Manufacturers of America (US)
NMP	Nuclear matrix protein	PI	Protease inhibitor
NMR	Nuclear magnetic resonance	PID	Pelvic inflammatory disease
NNRTI	Non-nucleoside reverse transcriptase inhibitor	PK	Pharmacokinetics
NOAEL	No observed adverse effect level	PKC	Protein kinase C
NOE	Nuclear Overhauser effect	PKD	Polycystic kidney disease
NOEL	No observed effect level	PKU	Phenylketonuria
NOS	Nitric oxide synthase	PMA	Premarket Approval (US)
NPA	National Pharmaceutical Association (UK)	PMN	Polymorphonuclear leukocyte
	National Pharmacy Association (UK)	PMS	Post-marketing surveillance
NPY	Neuropeptide Y		Premenstrual syndrome
NRC	National Research Council (US)	PNS	Peripheral nervous system
	Nuclear Regulatory Commission (US)	PPAR	Peroxisome proliferator-activated receptor
NRTI	Nucleoside reverse transcriptase inhibitor	PPV	Positive predictive value
NSAID	Nonsteroidal anti-inflammatory drug	PSA	Prostate specific antigen
NSCLC	Non-small-cell lung cancer	PSD	Pesticides Safety Directorate (UK)
NSF	National Science Foundation (US)	PSVT	Paroxysmal supraventricular tachycardia
NTP	National Toxicology Program (US)	PTC	Percutaneous transhepatic cholangiography
OA	Osteoarthritis	PTCA	Percutaneous transluminal coronary angioplasty
OC	Oral contraceptive	PTFE	Polytetrafluoroethylene
OCD	Obsessive compulsive disorder	PTH	Parathyroid hormone
OD	Optical density	PTK	Protein tyrosine kinase
OES	Occupational exposure standard	PTO	Patent and Trademark Office (US)
OGTT	Oral glucose tolerance test	PTT	Partial thromboplastin time
OPPTS	Office of Prevention, Pesticides and Toxic Substances (US)	PUFA	Polyunsaturated fatty acids
		PVC	Polyvinyl chloride
ORD	Optical rotary dispersion	PVDF	Polyvinylidene difluoride
ORDA	Office of Recombinant DNA Activities (US)	PVR	Peripheral vascular resistance
ORF	Open reading frame	PVT	Pressure-volume-temperature
OSD	Oral solid dosage	QED	Quod erat demonstrandum (which was to be proved)
OSHA	Occupational Safety and Health Administration	QSAR	Quantitative structure-activity relationship
OTC	Over the counter	RA	Rheumatoid arthritis
		RAGE	Receptor of advanced glycation endproduct
		RANTES	Regulated on activation, normal T expressed and secreted
		RAR	Retinoic acid receptor
		RAS	Renin-angiotensin system
		RBC	Red blood cell

## Acronyms (Continued)

RCC	Renal cell carcinoma	SRBC	Sheep red blood cell
RCT	Randomized clinical trial	Src	Sociedad Regular Colectiva
RCVSV	Royal College of Veterinary Surgeons (UK)	Srl	Società a Responsabilità Limitata
RDA	Recommended daily allowance		Societate cu Raspundere Limitata
RDI	Recommended dietary intake	SRM	Standard reference material
REM	Rapid eye movement	SSEA	Stage specific embryonic antigen
RFLP	Restriction fragment length polymorphism	SSRI	Selective serotonin reuptake inhibitor
RIA	Radioimmunoassay	STD	Sexually transmitted disease
RIND	Reversible ischemic neurological deficit	STEM	Scanning transmission electron microscopy
rINN	Recommended International Non-proprietary Name	STM	Scanning tunneling microscopy
		STP	Standard temperature and pressure
RMR	Resting metabolic rate	STS	Sequence-tagged site
RNAi	Ribonucleic acid interference	SV	Stroke volume
ROS	Reactive oxygen species	TB	Tuberculosis
RRS	Resonance raman spectroscopy	TCA	Tricarboxylic acid
RS	Raman spectroscopy		Tricyclic antidepressants
RSC	Royal Society of Chemistry (UK)	TCTP	Translationally controlled tumor protein
RSM	Royal Society of Medicine (UK)	TDL	Thoracic duct lymphocyte
RSV	Respiratory syncytial virus	TDN	Total digestible nutrients
	Rous sarcoma virus	TF	Transcription factor
RT	Room temperature	TGF	Transforming growth factor
RTECS	Registry of Toxic Effects of Chemical Substances (US)	TIA	Transient ischemic attack
		TK	Toxicokinetics
RTI	Reverse transcriptase inhibitor	TLC	Thin-layer chromatography
RXR	Retinoid X receptor	TLR	Toll-like receptor
SA	Sociedad Anónima	TLV	Threshold limit value
	Sociedade por Ações	TNF	Tumor necrosis factor
	Societate pe Actiuni	TPN	Total parenteral nutrition
	Société Anonyme	TRAIL	TNF related apoptosis inducing ligand
	Spolka Akcyjna	tRNA	Transfer ribonucleic acid
SAE	Society of Automotive Engineers	TSA	Tumor specific antigen
SAM	S-adenosyl methionine	TSG	Tumor suppressor gene
SAPa	Società in accomandita per azioni	TSH	Thyroid stimulating hormone
SAR	Structure activity relationship	TSTA	Tumor-specific transplantation antigens
SARS	Severe acute respiratory syndrome	TTP	Thrombotic thrombocytopenic purpura
SC	Subcutaneous	TUNEL	Terminal deoxynucleotidyl transferase (TdT)-mediated dUTP nick-end labeling
SCF	Supercritical fluid		
SCFA	Short chain fatty acids	TZD	Thiazolidinedione
SCID	Severe combined immune deficiency	UES	Upper esophageal sphincter
SCP	Single cell protein	UNEP	United Nations Environment Program
SD	Standard deviation	URI	Upper respiratory infection
SDH	Sorbitol dehydrogenase	USAN	United States Adopted Name
SE	Standard error	USDA	United States Department of Agriculture
SEC	Size-exclusion chromatography	USP	United States Pharmacopeia
SEM	Scanning electron microscopy	USPHS	United States Public Health Service
SERM	Selective estrogen-receptor modulator	USPTO	United States Patent and Trademark Office
SGGT	Serum gamma glutamyl transferase	UTI	Urinary tract infection
SGOT	Serum glutamic oxaloacetic transaminase	UTR	Untranslated region
SGPT	Serum glutamic-pyruvic transaminase	UV	Ultraviolet
SHIV	Simian-human immunodeficiency virus	VCAM	Vascular cell adhesion molecule
SIADH	Syndrome of inappropriate antidiuretic hormone (secretion)	VEGF	Vascular endothelial growth factor
		VLA	Very late antigens
SIB	Society for Industrial Biology	VLDL	Very low density lipoproteins
SIDS	Sudden infant death syndrome	VNTR	Variable number of tandem repeats
SIM	Society for Industrial Microbiology	VOC	Volatile organic compound
siRNA	Small interfering RNA	VPD	Ventricular premature depolarization
SIRS	Systemic inflammatory response syndrome	VSEPR	Valence shell electron pair repulsion
SIV	Simian immunodeficiency virus	VUV	Vacuum ultraviolet
SLE	Systemic lupus erythematosus	VZV	Varicella-zoster virus
SMART	Somatic mutation and recombination test	WBC	White blood cell
SNP	Single nucleotide polymorphism	WHO	World Health Organization
SNRI	Serotonin-noradrenaline reuptake inhibitor	WIPO	World Intellectual Property Organization
SOCMA	Synthetic Organic Chemical Manufacturers Association	WNL	Within normal limits
		WNV	West Nile virus
SOD	Superoxide dismutase	WSSA	Weed Science Society of America
SP	Substance P	WT	Wild type
SpA	Società per Azioni	WVA	World Veterinary Association
SPECT	Single photon emission computed tomography	XAFS	X-ray absorption fine structure spectroscopy
SPF	Sun protection factor	XPS	X-ray photoelectron spectroscopy
SPPARM	Selective PPAR modulator	YAC	Yeast artificial chromosome
SPRM	Selective progesterone receptor modulator	ZFP	Zinc finger protein