

List of Abbreviations and Acronyms

1G	One-generation assay
2G	Two-generation assay
407	OECD Test Guideline 407
A	Avian
ACC	American Chemistry Council
ACLAM	American College of Laboratory Animal Medicine
ANOVA	Analysis of variance
AR	Androgen receptor
β -gal	Gene for β -galactosidase
B_{\max}	Number of binding sites in a cytosolic preparation
BRD	Background Review Document
CALUX [®]	Chemical-activated luciferase expression assay
CASRN	Chemical Abstracts Service Registry Number
CAT	Chloramphenicol acetyl transferase (protein)
cDNA	Complementary deoxyribonucleic acid
CFR	Code of Federal Regulations
CHO	Cell line derived from Chinese hamster ovary
CMV	Cytomegalovirus
comp.	Computed
COS	Cell line derived from monkey kidney
%CV	Percent coefficient of variation
CV1	Cell line derived from monkey kidney
DABT	Diplomate, American Board of Toxicology
DACVP	Diplomate, American College of Veterinary Pathologists
DCC	Dextran-coated charcoal
DDE	1,1-Dichloro-bis[4-chlorophenyl]ethylene
DDT	Dichlorodiphenyltrichloroethane
DEAE	2-(Diethylamino)ethyl
def	Three domains of the estrogen receptor comprising its ligand binding domain
Dept.	Department
DHT	5 α -Dihydrotestosterone
DMSO	Dimethyl sulfoxide
DNA	Deoxyribonucleic acid
DPM	Disintegrations per minute
EC	Effective concentration
EC ₅₀	Half-maximal effective concentration
EDMVS	Endocrine Disruptor Methods Validation Subcommittee
EDSP	Endocrine Disruptor Screening Program
EDSTAC	Endocrine Disruptor Screening and Testing Advisory Committee
EDTA	Ethylenediaminetetraacetic acid
EDWG	Endocrine Disruptor Working Group
EPA	U.S. Environmental Protection Agency
ER	Estrogen receptor

List of Abbreviations and Acronyms (continued)

ER α	Estrogen receptor alpha
ER β	Estrogen receptor beta
ERE	Estrogen response element
F	Fish
FACB	Fellow, National Academy of Clinical Biochemistry
FATS	Fellow, Academy of Toxicological Sciences
FDA	U.S. Food and Drug Administration
FFDCA	Federal Food, Drug, and Cosmetic Act
FIFRA	Federal Insecticide, Fungicide and Rodenticide Act
fmol	Femtomole
FP	Fluorescence polarization
F-PA	Female pubertal assay
FQPA	Food Quality Protection Act
FR	U.S. <i>Federal Register</i>
FRAME	Fund for the Replacement of Animals in Medical Experiments
FRS	Fish reproductive screen
GAL4	A yeast protein that acts as a transcriptional activator
GLP	Good Laboratory Practices
GR	Glucocorticoid receptor
H	Hershberger assay
HAP	Hydroxylapatite
hAR	Human androgen receptor
HDT	Highest dose tested
HeLa	Cell line derived from a human cervical carcinoma
HepG2	Cell line derived from a human hepatoblastoma
hER	Human estrogen receptor
hER α	Human estrogen receptor alpha
hER α -FP	Human estrogen receptor alpha-fluorescence polarization assay
hER β	Human estrogen receptor beta
HGF	Human genital fibroblasts
HPTE	2,2-Bis-(<i>p</i> -hydroxyphenyl)-1,1,1-trichloroethane
HRE	Hormone responsive elements
IACUC	Institutional Animal Care and Use Committee
IC	Inhibitory concentration
IC ₅₀	Concentration of a test substance inhibiting the reference estrogen or androgen response by 50%
ICCVAM	Interagency Coordinating Committee on the Validation of Alternative Methods
IM	Intact male assay
IUL	<i>In utero</i> through lactation assay
IUPAC	International Union of Pure and Applied Chemistry
JME	Japanese Ministry of the Environment
K _d	Dissociation constant

List of Abbreviations and Acronyms (continued)

K _i	Equilibrium dissociation constant of a receptor-ligand complex
LBD	Ligand binding domain
LNCaP	Cell line derived from lymph node of a patient with metastatic prostatic adenocarcinoma
LOEC	Lowest observed effective concentration
Luc	Luciferase reporter gene
M2	A metabolite of vinclozolin
MCF-7	Cell line derived from a human mammary adenocarcinoma
MCRG	Mammalian cell reporter gene
MDA-kb2	Cell line derived from MDA-MB-453 cells that are stably transfected with a luciferase reporter gene
MDA-MB-453	Cell line derived from a human mammary carcinoma
meas.	Measured
mER	Mouse estrogen receptor
mg	Milligram
mL	Milliliter
mM	Millimolar
MMTV	Mouse mammary tumor virus
M-PA	Male pubertal assay
MPA	Medroxyprogesterone acetate
mRNA	Messenger ribonucleic acid
MTD	Maximum tolerated dose
MVLN	Cell line derived from MCF-7 cells that are stably transfected with a vitellogenin-luciferase reporter gene
NAS	National Academy of Sciences
N/C	Amino(N)- and carboxyl(C)-terminal regions of a protein
Neg.	Negative
ng	Nanogram
NICEATM	National Toxicology Program Interagency Center for the Evaluation of Alternative Toxicological Methods
NIEHS	National Institute of Environmental Health Sciences
nm	Nanometer
nM	Nanomolar
No.	Number
NSB	Nonspecific binding
NTP	National Toxicology Program
OD	Optical density
OECD	Organisation for Economic Co-operation and Development
PAH	Polycyclic aromatic hydrocarbon
PCB	Polychlorinated biphenyl
P.L.	Public Law

List of Abbreviations and Acronyms (continued)

pM	Picomolar
pmol	Picomole
Pos.	Positive
PR	Progesterone receptor
pSG5	A eukaryotic expression vector
QC	Quality control
QSAR	Quantitative structure activity relationship
R1881	Methyltrienolone
rAR	Rat androgen receptor
RBA	Relative binding affinity
res.	Residuals
rhAR	Recombinant human androgen receptor
RLU	Relative light units
RPC	Rat prostate cytosol
RUC	Rat uterine cytosol
SDWA	Safe Drinking Water Act
SE	Standard error
SEP	Special Emphasis Panel
SSE	Error sum of squares
T3	Triiodothyronine
T4	Thyroxine
TA	Transcriptional activation
TPA	Tetradecanoylphorbol-13 acetate
t test	Student's t test
TSCA	Toxic Substances Control Act
U	Uterotrophic assay
Univ.	University
vit ERE	Vitellogenin estrogen response element
VP16	A viral protein that acts as a transcriptional activator
v/v	Volume-to-volume ratio
>	Greater than
≥	Greater than or equal to
=	Equal to
<	Less than
≤	Less than or equal to
α	Alpha
β	Beta
γ	Gamma
μL	Microliter
μM	Micromolar