Abkürzungen/Abbreviations

2CA	Typ 2CA-amakrine Zellen der Retina
5-MCA-NAT	5-Methoxycarbonylamino-N-Azetyltryptamin
a-, b- und c-Wellen	Retinale elektrische Wellen
AANAT	Arylalkylamin-N-Azetyltransferase
aanat-mRNA	Transkript des *aanat*-Gens
AC	Adenylatcyclase
ACh	Acetylcholin
ACTH	Adrenocorticotropes Hormon
Agl	Außenglieder
AHA	Area hypothalamica anterior
AII-Zellen	Typ AII-amakrine Zellen der Retina
alpha-MSH	alpha-Form des Melanocyten stimulierenden Hormons
ARNT	arylhydrocarbon receptor nuclear translocator
ARNT-like Protein 1	arylhydrocarbon receptor nuclear translocator-like protein 1
AvaII	Restriktionsenzym AvaII
Az	amakrine Zellen
BclI	Restriktionsenzym BclI
BfiI	Restriktionsenzym BfiI
BMAL1	brain and muscle arylhydrocarbon receptor nuclear translocator-like protein 1 (Uhrengen-Protein)
Bmal1-mRNA	Transkript von *Bmal1*(Uhrengen)
BPH	benigne Prostatahyperplasie
cAMP	cyclisches Adenosinmonophosphat
CCK	Cholecystokinin
cGMP	cyclisches Guanosinmonophosphat
CGRP	calcitonin gene related polypeptide
CKI1ε	Kaseinkinase 1ε
CKIδ	Kaseinkinase δ
CLOCK	circadian locomotor output cycles kaput (Uhrengen-Protein)
Clock-mRNA	Transkript des *Clock*-Gens
CLSM	Konfokale Laser-Scanning Mikroskopie
CMZ	circumferential marginal zone
CRE	cAMP-response element
CREB	CRE-binding protein
CRH	corticotropin releasing hormone
Cry1-mRNA	Transkript von *Cryptochrome 1* (Uhrengen)
Cry2-mRNA	Transkript von *Cryptochrome 2* (Uhrengen)
D2/D4	Dopamin-Rezeptoren
DAG	Diacylglycerin
dbp	albumin-D-element binding protein
DD	Dauerdunkel
DFG	Deutsche Forschungsgemeinschaft
DMBA	7,12-Dimethylbenz(a)anthrazen
DNA	desoxyribonucleic acid
DOPAC	Abbauprodukt des Dopamins
E-Box	Promotor-Erkennungssequenz (CACGTG) für Uhrengen-Proteine
ERG	Ether-a-go-go-related-gene (Protein)
Erg 1,2,3	Isoformen des *ether-a-go-go-related-gene*
FGF2	fibroblast growth factor 2 (Fibroblastenwachstumsfaktor)
GABA	gamma aminobutyric acid (Neurotransmitter)
GCL	ganglion cell layer (Ganglienzellschicht der Retina)
GCMS	Gas-Chromatographie-Massenspektroskopie
GFAP	glial fibrillary acid protein (saures Gliafibrillenprotein)
Gglz	Ganglienzellen
GH	growth hormone (Wachstumshormon)
Gi	inhibitorisches GTP-bindendes Protein
GIP	gastric inhibitory polypeptide (gastrointestinales Hormon)
GK-Ratte	Goto-Kakizaki-Ratte (Typ2-diabetisches Rattenmodell)
GLP	glucagon like peptide (gastrointestinales Hormon)
Glu21-Glukagon	Glu21-Form des Glukagons
GLUC	Glukagon
GlutR3	Glutamat-Rezeptor 3
GnRH	gonadotropin releasing hormone
GPx	Glutathione peroxidase
Gq	GTP-bindendes Protein q
GSH	reduced glutathione, Glutathion (reduziert)
GSSG	oxidized glutathione, Glutathion (oxidiert)
GTP	Guanosintriphosphat
HALO	hours after lights on
HERG	human ether-a-go-go-related-gene (Protein)
HIF1a	hypoxia-inducible factor 1, alpha subunit
HIOMT	Hydroxyindol-O-methyltransferase
HPLC	high performance liquid chromatography
Hz	Horizontalzelle der Retina
ICER	inducible cAMP early repressor
IGF-1	insulin-like growth factor 1 (Insulin-ähnlicher Wachstumsfaktor)
Igl	Innenglieder der Retina

INL	inner nuclear layer (Stratum nucleare internum) der Retina
IP3	Inositoltriphosphat
IPL	inner plexiform layer (Stratum plexiforme internum) der Retina
ir/IR	Immunreaktive Zellen
IUPHAR	Receptor nomenclature committee
L : D	Licht : Dunkel-Zyklus
LH	Luteinisierendes Hormon
LHRH	releasing hormone des luteinisierenden Hormons
LL	Dauerlicht
Lys17,18	Glukagonagonist Lysin 17,18
MBH	Mediobasaler Hypothalamus
MC1–6R	Melanocortin-Rezeptoren
MEL	Melatonin
MelRR-1/ GPR 50	melatonin receptor-related receptor 1
MNH	N-methyl-N-nitrosourea
MRP	multidrug resistance proteins
MSH	Melanozyten-stimulierendes Hormon
MT1	Mel_{1a}-Rezeptor
MT2	Mel_{1b}-Rezeptor
MT1-/-	MT1-defizient
MT2-/-	MT2-defizient
MT3	quinone reductase type 2
muscAChR	muskarinischer Acetylcholinreceptor
N	nervus
NA	Noradrenalin
NAD^+	nicotinamide adenine dinucleotide
NADPH	nicotinamide adenine dinucleotide phosphate, Nikotinsäureamid-adenin-dinucleotidphosphat, reduziert
NAT-AANAT	Serotonin-N-Azetyltransferase
NECA	A_{2b}-Rezeptorantagonist
nicAChR	nikotinischer Acetylcholinreceptor
NIDDM	non insulin dependent diabetes mellitus (Typ2-Diabetes)
NMH	N-Nitroso-N-methylharnstoff
NO	nitric oxide (Stickstoffmonoxid)
NPY	Neuropeptid Y
NSC	Nucleus suprachiasmaticus (Nuclei suprachiasmatici)
ONL	outer nuclear layer (Stratum nucleare externum) der Retina
OPL	outer plexiform layer (Stratum plexiforme externum) der Retina
PACAP	pituitary adenylate cyclase activating polypeptide
PARP	poly(ADP-ribose) polymerase
PAS	Per-Arnt-Sim
PATA	Pineale Anti-Tumoraktivität
PC	Prostatacarcinom
PCR	polymerase chain reaction (Polymerase-Kettenreaktion)
Per1	*Period 1* (Uhrengen)
Per1-mRNA	Transkript von *Per1*
Per2	*Period 2* (Uhrengen)
Per3	*Period 3* (Uhrengen)
Pin	Pinealorgan
PKA	Proteinkinase A
PKC	Proteinkinase C
PLC	Phospholipase C
POMC	Proopiomelanocortin
PPARα	peroxisome proliferator activated receptor α
PRL	Prolaktin
PSP1	Protein-Serin/Threonin-Phosphatase 1
PT	Pars tuberalis
PTX	Pertussistoxin
PVT	Nucleus paraventricularis (paraventricular nucleus of the hypothalamus)
QR2	quinone reductase type 2
RCS	Royal College of Surgeons
rd-Mäuse	retinal dystrophische Mäuse
Rev-Erbα	Gen des nucleären Receptors Rev-Erbα
RHT	retino-hypothalamic tract
RIA	Radioimmunoassay
RNA	ribonucleic acid
ROR	retinoic acid receptor related orphan receptor
RORα	alpha-Isoform des ROR
RORγ	gamma-Isoform des ROR
ROS	reactive oxygen species, reaktive Sauerstoffspezies
RPE	retinales Pigmentepithel
RT-PCR	reverse transcription polymerase chain reaction
RZRα	alpha-Isoform des ROR
RZRβ	beta-Isoform des ROR
SEM	standard error of mean (Standardabweichung des Mittelwertes)
SOD	superoxide dismutase
SP	Substanz P
SRIF	somatotropin release inhibitory factor
SS	Serumschock
sst (1–5)	Isoformen von SRIF-Rezeptoren
Stbz	Stäbchen-Bipolarzelle der Retina
STZ	Streptozotocin (experimentelles Diabetikum)
SUR1	sulfonylurea-receptor 1 (Sulfonylharnstoffrezeptor 1)
T/N-Rhythmus	Tag/Nacht-Rhythmus
TBARS	Thiobarbiturat-reaktives Material
TDO	Tryptophan-2,3-dioxygenase
TH	Tyrosinhydroxylase
TPH	Tryptophanhydroxylase
TPH-mRNA	Transkript des Tryptophanhydroxylase-Gens
TRH	thyrotropin releasing hormone
TSH	Thyrotropin, Thyreoidea-stimulierendes-Hormon
VEGF	vascular endothelial growth factor
VIP	vasoactive intestinal polypeptide
WT	Wildtyp
Zbz	Zapfen-Bipolarzelle der Retina
ZENK	immediate early gene-Protein
ZT	Zeitgeberzeit (Zeitgeber time)