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Arabic Summary	

List of Abbreviations

AAV	Adenoassociated virus
AD	Alzheimer disease
ADR	Adverse drug reaction
AEs	Adverse effects
AION	Anterior ischemic optic neuropathy
ARMD	Age-related macular degeneration
ARVO	Association for Research in Vision and Ophthalmology
BBB	Blood–brain barrier
BC	Behcet's disease
BCC	Basal cell carcinoma
BCG	Bacillus Calmette-Guérin
BCVA	Best corrected visual acuity
BFGF	Basic fibroblast growth factor
BRAO	Branch retinal artery occlusion
AAV	Adenoassociated virus
BRVO	Branch retinal vein occlusion
CAD	coronary artery disease
CARD	Caspase recruitment domain
CB	chlorambucil
CGD	Chronic granulomatous disease
CHAMPS	The Controlled High-Risk Subjects Avonex Multiple Sclerosis Prevention Study
CIN	Conjunctival and corneal intraepithelial neoplasia

List of Abbreviations

CKIs	Cyclin-dependent kinase inhibitors
CME	Cystoid macular edema
CMM	Conjunctival melanoma
CMT	Central macular thickness
CNS	Central nervous system
CRAO	Central retinal artery occlusion
CRVO	Central retinal vein occlusion
DC	Dendritic cell
DD	Death -domain
DMDs	Disease modifying drugs
DME	Diabetic macular edema
DMTs	Disease modifying therapies
DsRNA	Double-stranded RNA
ED	Encephalomyelitis disseminate
ERG	Electro-retinogram
ETOMS	The Early Treatment of MS
FDA	Food and Drug Administration
FL	Follicular lymphoma
FLS	Flulike Symptoms
FRDA	Friedreich ataxia
GAA	guanine–adenine–adenine
HBV	Hepatitis B virus
HCV	Hepatitis C virus
HHV-8	Human herpesvirus-8
HIV	Human immunodeficiency virus
HPV	Human papillomavirus
HSC	Hematopoietic stem cell

List of Abbreviations

IAR	IFN associated retinopathy
Ig	Immunoglobulin
IGRAs	Interferon gamma release assays
IKK	Inhibitor of NK-kB kinase E
IL10R2	Interleukin 10 receptor 2
INFs	Interferons
INFα	Interferon alpha
INFβ	Interferon beta
INFγ	Interferon gamma
INFω	Interferon omega
INFλ	Interferon lambda
INFK	Interferon kappa
INFT	Interferon tau
INFAR1	Interferon A receptor 1
INFAR2	Interferon A receptor 2
INFG1	Interferon G receptor 1
INFT	Interferon tau
INFG2	Interferon G receptor 2
INFLR1	Interferon L receptor 1
I.M	Intramuscularly
IU	International unit
ISGs	IFN-stimulated genes
ISR	Injection site reactions
Jak	Janus kinases
KS	Kaposi's sarcoma
LDV	Laser Doppler velocimetry
MALT	Mucosa associated lymphoid tissue

List of Abbreviations

mDCs	Macrophage-derived dendritic cells
mf-ERG	Multifocal electro-retinogram
MIDA5	Melanoma differentiation-associated antigen 5
MIU	Million international unit
MS	Multiple sclerosis
MTb	Mycobacterium tuberculosis
NAION	Non- Arteritic Anterior Ischemic Optic Neuropathy
NHL	Non-Hodgkin's lymphoma
NK	Natural killer
NMR	Nuclear magnetic resonance
NS3-4A	Hepatitis C virus protease
ON	Optic neuritis
OSSN	Ocular surface squamous neoplasia
PAM	Primary acquired melanosis
pDCs	Plasmacytoid dendritic cells
PEG	Polyethylene glycol
PEK	Penetrating epithelial keratitis
PKR	Protein kinase R
PPMS	Primary progressive multiple sclerosis
RA	Rheumatoid arthritis
RAO	Retinal artery occlusion
RVO	Retinal vein occlusion
RD1	Region of difference 1
RIG1	Retinoic -acid-inducible gene I
RIP1	Receptor-interacting protein 1
RPMS	Relapsing progressive multiple sclerosis
RRMS	Relapsing remitting multiple sclerosis

List of Abbreviations

S.C	Subcutaneously
SCC	Squamous cell carcinoma
SLE	Systemic lupus erythromatsus
SPK	Stromal penetrating keratitis
SPMS	Secondary progressive multiple sclerosis
SOC	The current standard of care
SVR	Sustained viral response
TBK1	Tank -binding kinase 1
TCP	Thrombocytopenia
TIR	Toll/IL-1 receptor
TLR3	Toll-like receptor 3
TRAF	Tumor necrosis factor Receptor associated factor
TRIF	Toll/IL-1R (TIR) domain – containing adapter protein inducing IFN β
TM	Trans membrane region
UME	Uveitic macular edema
UV	Ultraviolet
VKH	Vogt-Koyanagi-Harada

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Introduction





Aim of the Essay





Chapter 1

Interferon Basics





Chapter 2

Uses of Interferons in Medical Disorders





Chapter 3

Applications of Interferons in Ophthalmology

