

The background of the cover is a composite of three microscopic images showing various cellular structures and organelles, rendered in a monochromatic green color scheme. These images are positioned in the top-left, bottom-left, and bottom-right corners, framing the central text.

THIRD EDITION

HANDBOOK OF
**PROTEOLYTIC
ENZYMES**

EDITED BY
NEEL D. RAWLINCS & CLYD E. SALVESEN



Handbook Of Proteolytic Enzymes Third Edition

**Olena Stabnikova, Oleksandr
Shevchenko, Viktor Stabnikov, Octavio
Paredes-López**



Handbook Of Proteolytic Enzymes Third Edition:

Handbook of Proteolytic Enzymes Alan J. Barrett, Neil D. Rawlings, J. Fred Woessner, 2012-10-30 Extensively revised and updated the new edition of the highly regarded Handbook of Proteolytic Enzymes is an essential reference for biochemists biotechnologists and molecular biologists Edited by world renowned experts in the field this comprehensive work provides detailed information on all known proteolytic enzymes to date This two volume set unveils new developments on proteolytic enzymes which are being investigated in pharmaceutical research for such diseases as HIV Hepatitis C and the common cold Volume I covers aspartic and metallo peptidases while Volume II examines peptidases of cysteine serine threonine and unknown catalytic type A CD ROM accompanies the book containing fully searchable text specialised scissile bond searches 3 D color structures and much more The only comprehensive book on proteolytic enzymes Includes 671 chapters each written by experts in their field on proteolytic enzymes from all groups of living organisms and the viruses including those that are currently major targets of pharmaceutical research Accompanying CD ROM provides fully searchable text 2D structures of peptidases in color and links directly to PubMed and MEROPS databases Each chapter describes in detail the enzyme name its history activity and specificity structural chemistry preparation biological aspects and distinguishing features Over 1000 peptidases included Handbook of Proteolytic Enzymes, Volume 1 Alan J. Barrett, J. Fred Woessner, Neil D.

Rawlings, 2012-12-02 Handbook of Proteolytic Enzymes Second Edition Volume 1 Aspartic and Metallo Peptidases is a compilation of numerous progressive research studies on proteolytic enzymes This edition is organized into two main sections encompassing 328 chapters This handbook is organized around a system for the classification of peptidases which is a hierarchical one built on the concepts of catalytic type clan family and peptidase The concept of catalytic type of a peptidase depends upon the chemical nature of the groups responsible for catalysis The recognized catalytic types are aspartic cysteine metallo serine threonine and the unclassified enzymes while clans and families are groups of homologous peptidases Homology at the level of a family of peptidases is shown by statistically significant relationship in amino acid sequence to a representative member called the type example or to another member of the family that has already been shown to be related to the type example Each chapter discusses the history activity specificity structural chemistry preparation and biological aspects of the enzyme This book will prove useful to enzyme chemists and researchers

Handbook of Proteolytic Enzymes Academic Press (London), Elsevier (Amsterdam), 2013 Handbook of Proteolytic Enzymes, 2013 *Handbook of Proteolytic Enzymes* Neil D. Rawlings, David S. Auld, 2025-06-30 Handbook of Proteolytic Enzymes Metallopeptidases has stood as most comprehensive work in the field of applied enzymology and biocatalysis since the first edition published in 1998 Extensively revised and updated the new fourth edition is an essential reference for biochemists biotechnologists and molecular biologists across academia and industry Edited by world renowned experts in the field and with five volumes available for individual sale this work provides detailed information on all known proteolytic

enzymes researched to date with expanded coverage of metallopeptidases cysteine peptidases serine and threonine peptidases aspartic and glutamic peptidases and inhibitors of proteolytic enzymes This volume includes over 300 chapters on known metallopeptidases enzymes including their name history activity and specificity structural chemistry preparation biological aspects and distinguishing features with 2D structures of peptidases in color extensive references and links to PubMed and MEROPS databases Provides the only comprehensive book on Metallopeptidases with over 300 peptides included Written by experts in their field of proteolytic enzymes from all groups of living organisms and viruses including those that are currently major targets of pharmaceutical research Fully searchable text 2D structures of peptidases in color and links directly to PubMed and MEROPS databases Details the latest proteotases used in therapeutic research and discusses recent drug trials

Prostasin In Human Health And Disease Li-mei Chen,2023-02-17 The formation of placenta can be viewed as a controlled process of inflammation or cancer development in which cell proliferation invasion and immune surveillance or evasion are promoted in a time and space specific manner This suggests that the functions of prostasin are mainly active in pathophysiological conditions more so than those in basic or normal physiological conditions The uniqueness of the prostasin serine protease is its membrane anchorage via a glycosylphosphatidylinositol moiety This anchorage exposes the entire prostasin molecule to the outside while still being immobilized on the cell membrane and gives prostasin a better chance to be used as a biomarker or drug target As presented in placenta development the equilibrium between growth and differentiation dictates healthy and disease states This book provides readers with an integrated knowledge on serine protease prostasin starting with its discovery protein isolation cDNA and gene cloning to its functions in physiology and pathophysiology and to its application in the development of therapeutics This is the first of its kind book that covers the history present state of knowledge and future perspectives of the prototypic glycosylphosphatidylinositol anchored epithelial extracellular serine protease prostasin which is a key player in the regulation and maintenance of the extracellular fluid homeostasis The chapters encapsulate all that has been learned about prostasin in the technical sophistication but more importantly also highlight a critical analysis on the problems with the current state of research and outline the challenges for the future

Peptide-based Biomaterials Mustafa O. Guler,2020-11-18 Research and new tools in biomaterials development by using peptides are currently growing as more functional and versatile building blocks are used to design a host of functional biomaterials via chemical modifications for health care applications It is a field that is attracting researchers from across soft matter science molecular engineering and biomaterials science Covering the fundamental concepts of self assembly design and synthesis of peptides this book will provide a solid introduction to the field for those interested in developing functional biomaterials by using peptide derivatives The bioactive nature of the peptides and their physical properties are discussed in various applications in biomedicine This book will help researchers and students working in biomaterials and biomedicine fields and help their understanding of modulating biological processes for disease diagnosis

and treatments **Bioconversion of Wastes to Value-added Products** Olena Stabnikova, Oleksandr Shevchenko, Viktor Stabnikov, Octavio Paredes-López, 2023-08-17 Bioconversion of agricultural and industrial wastes into useful products plays an important role both in the economy and in the prevention of environmental pollution This book presents technological approaches to the biotransformation of different wastes into valuable products and demonstrates developments in the field of organic waste disposal Organized in four parts Bioconversion of Wastes to Value added Products addresses the bioconversion of wastes to a new food products b energy c biotechnological products and d describes the construction of biosensors for food control Features Covers the use of different food waste to enrich meat dairy bakery and confectionery products Presents new technologies for utilization of wastes from the meat dairy and wine industries among others Promotes bioconversion of agricultural wastes into energy such as hydrogen or biogas Proposes the use of industrial wastes to produce exopolysaccharides using bacteria or macromycetes Describes design construction and testing of biosensors for food control The book is an aid to scientists and engineers contributing to manufacturing of useful products from non recyclable wastes as well as the creation of environmentally friendly technologies that protect the environment from potential contaminants

Unveiling the Proteolytic Networks of Parasites ,2024-10-23 Unveiling the Proteolytic Networks of Parasites Volume 125 presents a cutting edge exploration of specific proteases across a spectrum of parasitic organisms Top researchers in the field conduct multifaceted examinations shedding light on the distinct roles of these proteases within significant parasite groups including malaria trematodes nematodes and blood feeding arthropods Chapters in this new release include Bioinformatic analysis of proteases across multiple helminth species a case study using Wormbase UniProt and Merops databases Proteasomes of parasites Proteases of Trematodes as a promising drug targets tentative title Astacins and metalloproteases in nematodes and Proteases of bloodfeeding arthropods Offers comprehensive and up to date insights into specific proteases found in diverse parasitic organisms Includes multifaceted examinations conducted by leading researchers who illuminate the distinct roles of studied proteases within crucial parasite groups such as malaria trematodes nematodes and blood feeding arthropods Emphasizes the significance of basic laboratory research *Handbook of Proteolytic Enzymes* Neil D. Rawlings, 2022-12-15 The Handbook of Proteolytic Enzymes has stood as most comprehensive work in the field of applied enzymology and biocatalysis since the first edition published in 1998 Extensively revised and updated the new fourth edition is an essential reference for biochemists biotechnologists and molecular biologists across academia and industry Edited by world renowned experts in the field and with five volumes available for individual sale this work provides detailed information on all known proteolytic enzymes researched to date with expanded coverage of metallopeptidases cysteine peptidases serine and threonine peptidases aspartic and glutamic peptidases and inhibitors of proteolytic enzymes This volume Serine and Threonine Peptidases includes over 400 chapters on known serine and threonine peptidases including their name history activity and specificity structural chemistry preparation biological aspects and distinguishing features

with 2D and 3D structures of peptidases in color extensive references and links to PubMed and MEROPS databases The only comprehensive book on serine and threonine peptidases with over 400 peptides included Each chapter written by experts in their field on proteolytic enzymes from all groups of living organisms and viruses including those that are currently major targets of pharmaceutical research Fully searchable text 2D and 3D structures of peptidases in color and links directly to PubMed and MEROPS databases Details the latest proteases used in therapeutic research and discusses recent drug trials

Advances in Sea Cucumber Processing Technology and Product Development Changhu Xue, 2022-12-19 Sea cucumbers belong to the Phylum Echinodermata There are more than 900 recorded species of sea cucumber of which more than 40 are edible As a food source sea cucumbers are rich in protein low in fat rich in collagen sulfated polysaccharides phospholipids glycolipids saponins and other functional components Therefore sea cucumbers have important nutritional and medicinal value Growing awareness of these health benefits has promoted growth in marine aquaculture and processing technologies for the development of sea cucumber products for many applications Novel perspectives of nutritional functions and processing technologies of sea cucumbers are defined in this book The chemical structure and nutritional function of sea cucumbers are systematically reviewed These include the functional nutritional components the endogenous enzymatic properties related to processing efficiency and product quality and the efficient preparation technology of functional components The traditional processing technology is presented as the background context to highlight the advances in new processing technologies including low temperature cooking technology based on controllable negative pressure system heat pump hot blast air combined drying technology microwave sterilization of instant sea cucumber collagen stabilization technology The book finishes with the authentication of sea cucumber types and origin quality standards product quality control systems and food safety requirements

Proteases: Structure and Function Klaudia Brix, Walter Stöcker, 2014-01-21 Proteolysis is an irreversible posttranslational modification affecting each and every protein from its biosynthesis to its degradation Limited proteolysis regulates targeting and activity throughout the lifetime of proteins Balancing proteolysis is therefore crucial for physiological homeostasis Control mechanisms include proteolytic maturation of zymogens resulting in active proteases and the shut down of proteolysis by counteracting endogenous protease inhibitors Beyond the protein level proteolytic enzymes are involved in key decisions during development that determine life and death from single cells to adult individuals In particular we are becoming aware of the subtle role that proteases play in signaling events within proteolysis networks in which the enzymes act synergistically and form alliances in a web like fashion Proteases come in different flavors At least five families of mechanistically distinct enzymes and even more inhibitor families are known to date many family members are still to be studied in detail We have learned a lot about the diversity of the about 600 proteases in the human genome and begin to understand their physiological roles in the degradome However there are still many open questions regarding their actions in pathophysiology It is in this area where the development of small molecule inhibitors as

therapeutic agents is extremely promising Approaching proteolysis as the most important irreversible post translational protein modification essentially requires an integrated effort of complementary research disciplines In fact proteolytic enzymes seem as diverse as the scientists working with these intriguing proteins This book reflects the efforts of many in this exciting field of research where team and network formations are essential to move ahead *Enzymes in Farm Animal Nutrition, 3rd Edition* Michael R. Bedford, Gary G. Partridge, Milan Hruby, Carrie L. Walk, 2022-03-11 From alpha galactosidases to xylanases *Enzymes in Farm Animal Nutrition* provides a comprehensive guide to all aspects associated with enzyme supplemented animal feeds It details the history and size of the feed enzyme market before describing how feed enzymes are manufactured and employed in monogastric aqua and ruminant diets This new edition explores considerable advances such as the use of enzymes in fish and shrimp diets new understanding of how phytases function in the animal NSPase research and enzymes extended use in ruminant markets Covering biochemistry enzymology and characteristics relevant to animal feed use this book forms a valuable resource for academics and students of animal nutrition and production as well as professionals in the animal feed industry Using the Biological Literature Diane Schmidt, 2014-04-14 The biological sciences cover a broad array of literature types from younger fields like molecular biology with its reliance on recent journal articles genomic databases and protocol manuals to classic fields such as taxonomy with its scattered literature found in monographs and journals from the past three centuries *Using the Biological Literature* *Production of Plasma Proteins for Therapeutic Use* Joseph Bertolini, Neil Goss, John Curling, 2012-12-26 Sets forth the state of the science and technology in plasma protein production With contributions from an international team of eighty leading experts and pioneers in the field *Production of Plasma Proteins for Therapeutic Use* presents a comprehensive overview of the current state of knowledge about the function use and production of blood plasma proteins In addition to details of the operational requirements for the production of plasma derivatives the book describes the biology development research manufacture and clinical indications of essentially all plasma proteins with established clinical use or therapeutic potential *Production of Plasma Proteins for Therapeutic Use* covers the key aspects of the plasma fractionation industry in five sections Section 1 Introduction to Plasma Fractionation initially describes the history of transfusion and then covers the emergence of plasma collection and fractionation from its earliest days to the present time with the commercial and not for profit sectors developing into a multi billion dollar industry Section 2 Plasma Proteins for Therapeutic Use contains 24 chapters dedicated to specific plasma proteins including coagulation factors albumin immunoglobulin and a comprehensive range of other plasma derived proteins with therapeutic indications Each chapter discusses the physiology biochemistry mechanism of action and manufacture of each plasma protein including viral safety issues and clinical uses Section 3 Pathogen Safety of Plasma Products examines issues and procedures for enhancing viral safety and reducing the risk of transmissible spongiform encephalopathy transmission Section 4 The Pharmaceutical Environment Applied to Plasma Fractionation details

the requirements and activities associated with plasma collection quality assurance compliance with regulatory requirements provision of medical affairs support and the manufacture of plasma products Section 5 The Market for Plasma Products and the Economics of Fractionation reviews the commercial environment and economics of the plasma fractionation industry including future trends highlighting regions such as Asia which have the potential to exert a major influence on the plasma fractionation industry in the twenty first century

Therapeutics of Natural and Synthetic Compounds in Protease-Induced Cancer Sajal Chakraborti, 2025-06-07 Therapeutics of Natural and Synthetic Compounds in Protease Induced Cancer presents a detailed discussion on the role of therapeutic and synthetic compounds in proteases and how they have been utilized to develop anticancer drugs covering both their structure and functions In addition the book explores the experimental and theoretical aspects of natural and synthetic compound design based on proteases Sections bridge the gap between fundamental and translational research with applications in the biomedical and pharmaceutical industry making it a thought provoking read for basic and applied scientists engaged in biomedical research In 23 chapters this book gives both insights on the general aspects of the role of natural and synthetic compounds in cancer therapeutics in cancer development treatment and their use in clinical trials Given the breadth and depth of information covered in the respective contributions the book will be immensely useful for researchers in oncology and for those working to identify targets for drug development Discusses natural and synthetics compounds as promising targets for future research since they play a pivotal role in cancer progression and response to chemotherapy treatment Provides insights into the multifaceted role of natural and synthetic compounds in regulating many important cell processes including cell proliferation apoptosis and autophagy Discusses the key role of compounds in cancer progression focusing on the status of natural chemically modified and synthetic inhibitors in various types of malignancies

Handbook of Drug Administration via Enteral Feeding Tubes, 3rd edition Rebecca White, Vicky Bradnam, 2015-03-11 With over 400 drug monographs this book covers the technical practical and legal aspects that you should consider before prescribing or administering drugs via enteral feeding tubes

ENS IN DIALECTICAL CHAT - 2 Augustin Ostace, 2023-11-03 AI MOTTO Why are not enough the first three AERA of our previous AERAS namely AERA OF PHILOSOPHICAL SYSTEMS AERA 1 AERA OF SAPIENTOLOGICAL SYSTEMS AERA 2 AERA OF VIDEOLOGICAL SYSTEMS AERA 3 Being thus necessary a fourth thinkable and re thinkable Creative System the one of ARTIFICIAL INTELLIGENCE SYSTEM AI which in German Language is entitled as K NSTLISCHE INTELLIGENZ KI and both AI and KI are under the HYBRID INTELLIGENCE of Human and Artificial alike encoded as HI Therefore all three signification AI KI HI are provable into the sameness extra enlargement of the Classic Human Brain CHB This impetus in development of technological systems more and more intelligent more and more comprehensive more and more diversified more and more amplified comprising here at least for the time being information inspiration intuition and initiation widespread in areas of technology of industry of art of anthropology of sapientology of cosmology of astronomy of geology and biology into which all

of them means ultimately another big step up in development of duality Human Machine or a duality of Human Technology including the branches of Human Over Human Robotics or Humanoid Robotics The man itself the human itself the Sapient o Human development its experiences its visions its outcomes can make symbiosis with oneself a crossing with its nature of creativity within the nature physis of endless philosophy with tools out of stone with tools out of bones out of hood or of synthetic feature underlining once again the TOOL MAKER MAN as Homo Faber But now within the present data out of its own virtual reality and creativity all being improved by the man itself and the machine itself which machine might in turn overcome the man by confronting the man itself by changing and challenging even the human itself even the Human Sapient oneself in its own destiny and purposes Could be or could become the Artificial Intelligence AI KI HI the source and resource the roots of final ending of the Sapient on the Earth By taking into account all probabilities and possibilities of the present daily evolution and revolution of the hyper complexity of Artificial Intelligence AI KI HI a recombination of the man itself with a machine created by the man itself could develop a symbiosis of human machine which overcomes the Classic Species Sapiens CSS who dominated the life on Earth in the last of ca 50 000 years by entering within the Species Sapiens Techne SST into which the Sapiens still dominate the Universe of Technology by reaching out in some area even the domination of Technology over Sapiens as TSS In this way within Artificial Intelligence seen and analyzed Three Times Intelligence i e AI KI HI the letters themselves the numbers themselves and the signs themselves are becoming the WORD itself the WORD itself is improved to the level of CONCEPT itself and the WORD CONCEPT DUALITY in their speeding up developing in their accelerated and amplifying structures is giving the outcome of the BOOK itself in its CLASSICAL BOOK CB in its digital book as E BOOK or in its VIRTUAL BOOK as V BOOK Only this multitude of the same BOOK in development of the same BOOK in diversity is showing the evolution and the revolution of the ARTIFICIAL INTELLIGENCE in its three times of AI KI HI with its versions in German Language as K NSTLICHE INTELLIGENZ KI and HYBRID INTELLIGENCE HI which will be used and reused interchangeably at any reference or inter reference or cross reference in our ENS IN DIALECTICAL CHAT 1 What really means ENS in our Book of Dialectical CHAT ENS is a shortages from the Species Sapiens being thought and rethought as ENS i e as BEING of the Species Sapiens Within ENS will be comprise the whole of German Idealist connotation of Being as A SEIN BEING in its maximal generality B DASEIN BEING HERE on this planetary system C MITDASEIN COBEING HERE together with all past geological and biological times influencing and restructuring all basic features of the Planetary Life System It is possible to rethink the ENS INTO ONESELF RECHATING Would be ENS a synthesis out of Sapiens Is ENS a Being SEIN out of Sapiens Is ENS a Being here DASEIN out of Sapiens Is ENS is a CO BEING here MITDASEIN out of Sapiens Is ENS a triad of Being empowering the Sapiens oneself Is ENS a living self consciousness of the whole of Sapiens Is ENS a symbiosis between Sapiens and Artificial Intelligence AI KI HI Is ENS the dialectic vector of history of the whole Sapiens in overcoming oneself towards a better Sapient o Technology towards a Sapient o post human industry in Art in

Philosophy in Psychology in Theology The writer is now the reader the explorer is now the surveyor the survival is now the fighter by assuming a strong competition beyond of its own Species finally a semi human made device an Hybrid Intelligence HI between biology and technology both inspired by Bionics resounding in biology and technology alike To these multitude of answers we try to cope with in our On Line Book ENS IN DIALECTICAL CHAT 1 AI Sapientologist **CONSTITUTION OF ARTIFICIAL INTELLIGENCE - 1** Augustin Ostace,2023-11-14 MOTTO Why are not enough the first three AERA of our previous AERAS namely AERA OF PHILOSOPHICAL SYSTEMS AERA 1 AERA OF SAPIENTOLOGICAL SYSTEMS AERA 2 AERA OF VIDEOLOGICAL SYSTEMS AERA 3 Being thus necessary a fourth thinkable and re thinkable Creative System the one of ARTIFICIAL INTELLIGENCE SYSTEM or SYSTEMS AI SYSTEM AIS which in German Language is entitled as KNSTLISCHE INTELLIGENZ KI and both AI and KI are under the HYBRID INTELLIGENCE of Human and Artificial alike encoded as HI by remaking out of the complex concept Hybrid a developing towards HYBRIDOLOGY and HYBRIDO LOGICUM both in Sapiens interrelated the Artificial Intelligence Systems AIS INTELLIENTOLOGY INTELLENTONTOLOGY INTELLIENTOLOGICUM Therefore all three signification AI KI HI through a SYSTEM are provable and demonstrable into the sameness extra enlargement and expansion of the Classic Human Brain CHB which still remains anatomically within the same limits of Classical Sapiens CSS but in abstract creativity is doing an unspeakable progress beyond of all previous frontiers This impetus in development of technological systems more and more intelligent more and more abstract more and more comprehensive more and more diversified more and more amplified more and more accelerated by comprising here at least for the time being information inspiration intuition and initiation widespread in areas of technology of industry of art of anthropology of Sapientology of cosmology of astronomy of geology and biology into which all of them means ultimately another big step up in development of duality Human Machine or a duality of Human Technology including the branches of Human Over Human Robotics or Humanoid Robotics The man itself the human itself the Sapient o Human development its experiences its visions its outcomes can make symbiosis with oneself a crossing with its nature of creativity within the nature physis of endless philosophy with tools out of stone with tools out of bones out of hood or of synthetic feature underlining once again the TOOL MAKER MAN as Homo Faber likewise a Proto Sapiens Being as Homo Loquens Perhaps the proto language begun through the action of hand hitting the stone enlarging thus the brain and the understanding of the world and of the proto human oneself But now within the present data out of its own virtual reality and creativity all being improved by the man itself and the machine itself which machine might in turn overcome the man by confronting the man itself by changing and challenging even the human itself even the Human Sapient oneself in its own destiny and purposes Could be or could become the Artificial Intelligence AI KI HI the source and resource the roots of final ending of the Sapient on the Earth planetary system By taking into account all probabilities and possibilities of the present daily evolution and revolution of the hyper complexity of Artificial Intelligence AI KI HI a recombination of the man itself with a machine created by the man itself

could develop a symbiosis of human machine which overcomes the Classic Species Sapiens CSS who dominated the life on Earth in the last of ca 50 000 years by entering within the Species Sapiens Techne SST into which the Sapiens still dominate the Universe of Technology by reaching out in some area even the domination of Technology over Sapiens as TSS In this way within Artificial Intelligence seen and analyzed Three Times Intelligence i e AI KI HI the letters themselves the numbers themselves and the signs themselves are becoming the WORD itself the WORD itself is improved to the level of CONCEPT itself and the WORD CONCEPT DUALITY in their speeding up developing in their accelerated and amplifying structures is giving the outcome of the BOOK itself in its CLASSICAL BOOK CB in its digital book as E BOOK or in its VIRTUAL BOOK as V BOOK It is a form a derivative structure of Hindu Philosophy here called AVATAR Avatar as embodiment of a Deity its soul its spirit its principle into a Human Being into a Hybrid Human Being Avatar as a descent of heaven Deity a released soul and spirit and principle on Earth by rethinking thus a reconciliation between Terra Incognita with Sapiens Incognita and Heaven Incognita Avatar as a Seeker of reuniting of dream and reality of World Wide Web WWW with Sky World Web SWW by going through ENS WORLD WEB EWW Avatar as Being of Earth GEOAVATAR as Being of Sapiens ENSAVATAR as Being of Heaven SKYAVATAR Avatar as a Being coming out of Sapiens as Being of Sapiens then taking the final syllable of SA PI ENS being thus re baptized as ENSAVATAR Avatar by giving itself a sense of Being in the World Only this multitude concepts of Avatar is remaking the Books through ENSBOOK in development of the same double E BOOK in diversity is showing the evolution and the revolution of the ARTIFICIAL INTELLIGENCE in its three times of AI KI HI with its versions in German Language as K NSTLICHE INTELLIGENZ KI and HYBRID INTELLIGENCE HI which will be used and reused interchangeably at any reference or inter reference or cross reference in our ENSSANSKRIT SAPIENS which in turn is becoming an ENSSANSKRIT SAPIENS 1 What really means ENS in our Book of Dialectical CHAT ENS is a shortages from the Species Sapiens being thought and rethought as ENS i e as BEING of the Species Sapiens Being as Being as ENS QUA ENS Within ENS will be comprise the whole of German Idealist connotation of Being as A SEIN BEING in its maximal generality B DASEIN BEING HERE on this planetary system C MITDASEIN COBEING HERE together with all past geological and biological times influencing and restructuring all basic features of the Planetary Life System It is possible to rethink the ENS INTO ONESELF RECHATING Would be ENS a synthesis out of Sapiens Is ENS a Being SEIN out of Sapiens Is ENS a Being here DASEIN out of Sapiens Is ENS is a CO BEING here MITDASEIN out of Sapiens Is ENS a triad of Being empowering the Sapiens oneself Is ENS a living self consciousness of the whole of Sapiens Is ENS a symbiosis between Sapiens and Artificial Intelligence AI KI HI Is ENS the dialectic vector of history of the whole Sapiens in overcoming oneself towards a better Sapient o Technology towards a Sapient o post human industry towards Sapient o Epistemology including here Sapiens in Art ARSSAPIENS Sapiens in in Philosophy Sapiens in in Psychology and Sapiens in Theology The writer itself is now the reader itself the explorer itself is now the surveyor itself the survival itself is now the fighter itself by assuming a strong competition beyond

of its own Species beyond of its own individuality and classical personality finally becoming a semi human made device an Hybrid Intelligence System HIS between biology and technology between anatomy and epistemology both inspired by Bionics by Cloning by Robotics all resounding in biology in epistemology and technology alike It is more than obvious that the Cyber technology of today s is becoming a real Industry wide spreading over all into the world World Wide Web WWW through which the Abstract Knowledge is Industry itself having reached out a Knowledge Industry Sapiens KIS As a terrible development of human invention and technology of human discovery and epistemology of human and post human industry and axiology it is necessary to redefine the Man itself the Sapiens itself by taking into account some old ideas out of Hinduism Upanishad regarding the definition of the Almighty Creator of Brahman who can be define with qualities with attributes as BRAGMAN SAGUNA or can be defined in a reverse way without qualities without attributes as BRAHMAN NIRGUNA Here must be added that the Christian Mystic of Dyonisos Areopagita has underlined the same thesis in his Apophatic and Cataphatic way of definition of God Thus a MAN SAGUNA SAPIENS SAGUNA means a upright posture of the man means free hands means brain enlarged in volume and weight in relation with the weight of anatomical individuality larynx lowering in neck presence of consciousness of articulated language symbolic alphabet abstract thinking technology of tools culture and civilizations art religion industry Bionics Cloning Robotics Artificial Intelligence Thus a MAN NIRGUNA SAPIENS NIRGUNA means a negation of these qualities or attributes by saying that the Man Sapiens is not immortal is not forever without possible replacement by his her own technology and epistemology that the Man Sapiens is not a divine Deity or Semi Deity that the Man Sapiens is not the alone intelligence within Universe that the Man Sapiens has not the power of creating through UNCAUSAL LOGOS the Man Sapiens has not the power of being with ABSOLUTE POWERS within Universe Man Sapiens has no qualities of naming oneself as the Peak of Evolution because he she has not the power of Creation and Evolution of the Universe CREVO or the power of Genesis plus Evolution GENEVO To these multitude of questions with very difficult answers to these multitude of dilemma to these multitude of labyrinth ways we the author coming out of Classic Sapiens is trying to cope with our Online Book CONSTITUTION OF ARTIFICIAL INTELLIGENCE SYSTEMS 1 AI Sapientologist *ENSSANSKRIT SAPIENS - 1* Augustin Ostace,2023-11-07 MOTTO Why are not enough the first three AERA of our previous AERAS namely AERA OF PHILOSOPHICAL SYSTEMS AERA 1 AERA OF SAPIENTOLOGICAL SYSTEMS AERA 2 AERA OF VIDEOLOGICAL SYSTEMS AERA 3 Being thus necessary a fourth thinkable and re thinkable Creative System the one of ARTIFICIAL INTELLIGENCE SYSTEM AI SYSTEM which in German Language is entitled as K NSTLISCHE INTELLIGENZ KI and both AI and KI are under the HYBRID INTELLIGENCE of Human and Artificial alike encoded as HI by remaking out of the complex concept Hybrid a developing towards HYBRIDOLOGY and HYBRIDOLOGICUM both in Sapiens interrelated the Artificial Intelligence Systems AIS INTELLIENTOLOGY INTELLIENTOLOGY INTELLIENTOLOGICUM Therefore all three signification AI KI HI through a SYSTEM are provable and demonstrable into the sameness extra

enlargement and expansion of the Classic Human Brain CHB which still remains anatomically within the same limits of Classical Sapiens CSS but in abstract creativity is doing an unspeakable progress beyond of all previous frontiers This impetus in development of technological systems more and more intelligent more and more abstract more and more comprehensive more and more diversified more and more amplified more and more accelerated by comprising here at least for the time being information inspiration intuition and initiation widespread in areas of technology of industry of art of anthropology of sapientology of cosmology of astronomy of geology and biology into which all of them means ultimately another big step up in development of duality Human Machine or a duality of Human Technology including the branches of Human Over Human Robotics or Humanoid Robotics The man itself the human itself the Sapient o Human development its experiences its visions its outcomes can make symbiosis with oneself a crossing with its nature of creativity within the nature physis of endless philosophy with tools out of stone with tools out of bones out of hood or of synthetic feature underlining once again the TOOL MAKER MAN as Homo Faber likewise a Proto Sapiens Being as Homo Loquens Perhaps the proto language begun through the action of hand hitting the stone enlarging thus the brain and the understanding of the world and of the proto human oneself But now within the present data out of its own virtual reality and creativity all being improved by the man itself and the machine itself which machine might in turn overcome the man by confronting the man itself by changing and challenging even the human itself even the Human Sapient oneself in its own destiny and purposes Could be or could become the Artificial Intelligence AI KI HI the source and resource the roots of final ending of the Sapient on the Earth By taking into account all probabilities and possibilities of the present daily evolution and revolution of the hyper complexity of Artificial Intelligence AI KI HI a recombination of the man itself with a machine created by the man itself could develop a symbiosis of human machine which overcomes the Classic Species Sapiens CSS who dominated the life on Earth in the last of ca 50 000 years by entering within the Species Sapiens Techne SST into which the Sapiens still dominate the Universe of Technology by reaching out in some area even the domination of Technology over Sapiens as TSS In this way within Artificial Intelligence seen and analyzed Three Times Intelligence i e AI KI HI the letters themselves the numbers themselves and the signs themselves are becoming the WORD itself the WORD itself is improved to the level of CONCEPT itself and the WORD CONCEPT DUALITY in their speeding up developing in their accelerated and amplifying structures is giving the outcome of the BOOK itself in its CLASSICAL BOOK CB in its digital book as E BOOK or in its VIRTUAL BOOK as V BOOK It is a form a derivative structure of Hindu Philosophy here called AVATAR Avatar as embodiment of a Deity its soul its spirit its principle into a Human Being into a Hybrid Human Being Avatar as a descent of heaven Deity a released soul and spirit and principle on Earth by rethinking thus a reconciliation between Terra Incognita with Sapiens Incognita and Heaven Incognita Avatar as a Seeker of reuniting of dream and reality of World Wide Web WWW with Sky World Web SWW by going through ENS WORLD WEB EWW Avatar as Being of Earth GEOAVATAR as Being of Sapiens ENSAVATAR as Being of Heaven SKYAVATAR

Avatar as a Being coming out of Sapiens as Being of Sapiens then taking the final syllable of SA PI ENS being thus re-baptized as ENSAVATAR Avatar by giving itself a sense of Being in the World Only this multitude concepts of Avatar is remaking the Books through ENSBOOK in development of the same double E BOOK in diversity is showing the evolution and the revolution of the ARTIFICIAL INTELLIGENCE in its three times of AI KI HI with its versions in German Language as K NSTLICHE INTELLIGENZ KI and HYBRID INTELLIGENCE HI which will be used and reused interchangeably at any reference or inter reference or cross reference in our ENSSANSKRIT SAPIENS which in turn is becoming an ENSSANSKRIT SAPIENS 1 What really means ENS in our Book of Dialectical CHAT ENS is a shortages from the Species Sapiens being thought and rethought as ENS i e as BEING of the Species Sapiens Being as Being as ENS QUA ENS Within ENS will be comprise the whole of German Idealist connotation of Being as A SEIN BEING in its maximal generality B DASEIN BEING HERE on this planetary system C MITDASEIN COBEING HERE together with all past geological and biological times influencing and restructuring all basic features of the Planetary Life System It is possible to rethink the ENS INTO ONESELF RECHATING Would be ENS a synthesis out of Sapiens Is ENS a Being SEIN out of Sapiens Is ENS a Being here DASEIN out of Sapiens Is ENS is a CO BEING here MITDASEIN out of Sapiens Is ENS a triad of Being empowering the Sapiens oneself Is ENS a living self consciousness of the whole of Sapiens Is ENS a symbiosis between Sapiens and Artificial Intelligence AI KI HI Is ENS the dialectic vector of history of the whole Sapiens in overcoming oneself towards a better Sapient o Technology towards a Sapient o post human industry towards Sapient o Epistemology including here Sapiens in Art ARSSAPIENS Sapiens in in Philosophy Sapiens in in Psychology and Sapiens in Theology The writer itself is now the reader itself the explorer itself is now the surveyor itself the survival itself is now the fighter itself by assuming a strong competition beyond of its own Species beyond of its own individuality and classical personality finally becoming a semi human made device an Hybrid Intelligence System HIS between biology and technology between anatomy and epistemology both inspired by Bionics by Cloning by Robotics all resounding in biology in epistemology and technology alike It is more than obvious that the Cyber technology of today s is becoming a real Industry wide spreading over all into the world World Wide Web WWW through which the Abstract Knowledge is Industry itself having reached out a Knowledge Industry Sapiens KIS As a terrible development of human invention and technology of human discovery and epistemology of human and post human industry and axiology it is necessary to redefine the Man itself the Sapiens itself by taking into account some old ideas out of Hinduism Upanishad regarding the definition of the Almighty Creator of Brahman who can be define with qualities with attributes as BRAGMAN SAGUNA or can be defined in a reverse way without qualities without attributes as BRAHMAN NIRGUNA Here must be added that the Christian Mystic of Dyonisos Areopagita has underlined the same thesis in his Apophatic and Cataphatic way of definition of God Thus a MAN SAGUNA SAPIENS SAGUNA means a upright posture of the man means free hands means brain enlarged in volume and weight in relation with the weight of anatomical individuality

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