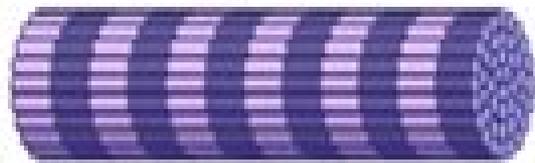


**Collagen fiber**



**Collagen molecule**



**Amino acid chain**



 Glycine

 Hydroxyproline

 Proline

# Collagen Primer In Structure Procebing And Abembly

**Jan Kristian Rainey**



## **Collagen Primer In Structure Processing And Assembly:**

**Collagen** Jürgen Brinckmann, Holger Notbohm, P.K. Müller, 2005-05-03 J Brinckmann Collagens at a Glance J Engel H P B chinger Structure Stability and Folding of the Collagen Triple Helix S Ricard Blum F Ruggiero M van der Rest The Collagen Superfamily T Koide K Nagata Collagen Biosynthesis J Myllyharju Intracellular Post Translational Modifications of Collagens D S Greenspan Biosynthetic Processing of Collagen Molecules D E Birk P Bruckner Collagen Suprastructures D R Eyre J J Wu Collagen Cross Links

**Collagen Structure and Preferential Assembly Explored by Parallel Microscopy and Bioinformatics [microform]** Jan Kristian Rainey, 2003 Although its self assembly is ubiquitous for most animals and has been extensively studied for decades collagen remains a rather enigmatic protein The preferential assembly process of one particular collagen construct fibrous long spacing collagen formed with added alpha1 acid glycoprotein is detailed Stable intermediate structures are resolved by atomic force microscopy demonstrating for the first time the onset of the periodic surface protrusions separated by 270 nm that are characteristic of this form of collagen A preliminary fibrillogenesis mechanism is proposed on the basis of this data but the ongoing problem of the lack of a high resolution structure for the collagen monomer makes detailed analysis difficult Therefore a diversion into bioinformatics styled analyses is presented In the first analysis the collagen triple helix is parameterized using all available high resolution crystal structure data This provides a general framework for prediction of any triple helical peptide structure and is shown using a nonredundant data set to generate a prediction agreeing exceptionally well with the highest resolution structure solved to date From a preferential assembly standpoint only the terminal atoms of each residue are important it is these that modulate supramolecular assembly through either attractive or repulsive interactions However the large size 3150 amino acids of the collagen monomer makes prediction of all side chain atoms undesirable Following the success of backbone dependent rotamer libraries a second statistically derived parameter set is developed It allows prediction of terminal side chain atom positions given only a polypeptide backbone This is validated by comparing numerous predictions to experimental structures for a large set of protein structures showing excellent potential as a general predictive method for efficiently positioning side chains Combining the two parameter sets any triple helical structure may be readily predicted A model of the human type I collagen monomer is introduced and its utility is demonstrated through correlation with atomic force microscopy data This allows both the interpretation of height data and the clarification of the preliminary assembly mechanism proposed towards the beginning of the Thesis for fibrous long spacing collagen

**Collagen** Peter Fratzl, 2008-05-10 Collagen Structure and Mechanics provides a cohesive introduction to this biological macromolecule and its many applications in biomaterials and tissue engineering Graduate students and postdoctoral researchers in the fields of materials bio engineering physics chemistry and biology will gain an understanding of the structure and mechanical behavior of type I collagen and collagen based tissues in vertebrates across all length scales from the molecular nano to the organ macro level Written in a clear and

didactic manner this volume includes current knowledge on the hierarchical structure mechanical properties in addition to a review of deformation and strengthening mechanisms Collagen Structure and Mechanics is an excellent reference for new researchers entering this area and serves as a basis for lecturing in the interdisciplinary field of biological materials science

Biochemistry of Collagen Gopalasamudram Ramachandran, 2013-06-29 Collagen is a fascinating protein not only because of its ubiquitous occurrence in multicellular animals but also because of its unique chemical structure As the predominant constituent in bone cartilage skin tendon and tooth it is not surprising that collagen is of interest to anatomists biochemists biomedical engineers cell biologists dermatologists dental surgeons leather chemists orthopedic surgeons physiologists physicians zoologists and a host of others This book was planned to provide an up to date comprehensive survey of all aspects of biochemistry of collagen The recent discovery of genetically distinct collagens with tissue specificity has opened a new era in collagen biochemistry and Karl Piez discusses this in the opening chapter on primary structure In the next chapter Ramachandran and Rama krishnan deal with the molecular structure of collagen placing special emphasis on the conformational aspects of its polypeptide chains Following the consideration of primary and secondary structure of collagen the three dimensional arrangement of collagen molecules in the fibrils is covered by Miller in Chapter 3 Collagen is generally in the insoluble state in the living organism due to the cross linking of individual molecules and Tanzer describes the various aspects of this cross linkage in Chapter 4 The biosynthesis of collagen is discussed in depth by Prockop and his colleagues

*Collagen Fibril Assembly in the Presence of Carbon Nano-fillers* Emily C. Green, 2015 The use of nano materials in tissue engineering is being widely researched and many subsequent applications currently exist Recently it was realized that the extra cellular matrix ECM is an intricate interweaving of nanometer sized protein fibers i e mainly collagen Replicating the ECM remains a challenge However it is crucial for applications ranging from skin and organ replacement to testing drug toxicity Currently there are several fabrication methods for replicating the ECM each of which have numerous drawbacks including lack of repeatability and failure to replicate the internal fibrillar and hierarchical collagen structure The work outlined for this dissertation will utilize a flow based gel spinning protocol to assemble collagen fibrils with and without the presence of nano carbons This novel synthetic method is aimed at achieving continuous collagen fibers which exhibit highly aligned fibrillar and organized molecular structures as toward mimicking the native material This type of collagen fiber fabrication remains a challenge to date Collagen and collagen nano carbon composites were fabricated and characterized in order to determine the effects of the nano carbon in terms of geometry size scale and distribution in the matrix on collagen self assembly and molecular packing Nano carbon dispersions collagen sonication fiber incubation fiber strain and cross linking were also studied to determine their effects on the overall assembly process Fundamental studies to determine the structure property relationship were also conducted using electron microscopy X ray scattering diffraction techniques and mechanical testing These characterization methods allow better understanding of the nano carbons ability to template highly

aligned collagen fibrillar organization as well as the capability for these fillers to influence the collagen fiber structure

**Collagen Self-assembly** Darren Anderson, 2006 Collagen is the major structural protein in mammals and forms the basis of a variety of tissues essential for animal life including bone skin teeth cornea tendon and others It self assembles both in vivo and in vitro into a variety of biologically important structures and this self assembly process is highly dependent on solution pH ionic strength and the concentration of the collagen monomer Kinetic studies demonstrating these dependencies are presented for the formation of the most important aggregate native type collagen The cold dissociation of collagen that does not contain complete non helical telopeptide regions is also demonstrated Based on these studies five different types of collagen intermediates are identified and a partially hierarchical fibrillogenesis mechanism is proposed along with a detailed kinetic model In order to further understand collagen fibrillogenesis at a molecular level a previously predicted structure of the collagen monomer is completely relaxed using condensed phase molecular dynamics simulations For validation purposes several experimentally solved model collagen structures are simulated in the same way and the simulation results agree with the crystal structures to within the experimental error Therefore a structure of the collagen monomer is proposed that comprises the most complete model currently developed This model forms the basis for two sets of simulations aimed at explaining the formation of several of the polymorphisms of collagen First a three dimensional analysis of the interactions between collagen monomers in fibrillar aggregates is presented including hydrophobic hydrophobic and electrostatic interactions An examination of these interactions as a function of overlap between monomers demonstrates the origin of the topological regularity in native type collagen Second a detailed molecular model for formation of segmental long spacing crystallites of collagen is presented involving bridging of in register collagen monomers by nucleotide triphosphate moieties at colocalized acidic and basic residues The proposed model is confirmed using molecular mechanics and dynamics simulations

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