

Model 1 Investigating Cell Size

Investigating Cellular Nanoscale with X-rays Investigations in Ore Dressing and Metallurgy
[Testing and Research Laboratories] An Investigation of Zinc Amalgams and Concentration Cells
... Investigations of Infra-red Spectra ... Investigations in Ore Dressing and Metallurgy
Investigations of Mineral Resources and the Mining Industry Integrated Pharmaceutics Botany of the Faröes,
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the advances and technical improvements of x ray imaging techniques taking advantage of x ray focussing optics and high intensity synchrotron sources nowadays allow for the use of x rays to probe the cellular nanoscale importantly x rays permit thick samples to be imaged without sectioning or slicing in this work two macromolecules namely keratin intermediate filament if proteins and dna both essential components of cells were studied by x ray techniques keratin if proteins make up an integral part of the cytoskeleton of epithelial cells and form a dense intracellular network of bundles this network is built from monomers in a hierarchical fashion thus the keratin structure formation spans a large range of length scales from a few nanometres monomers to micrometres networks here keratin was studied at three different scales i filaments ii bundles and iii networks solution small angle x ray scattering revealed distinct structural and organisational characteristics of these highly charged polyelectrolyte filaments such as increasing radius with increasing salt concentration and spatial accumulation of ions depending on the salt concentration the results are quantified by employing advanced modelling of keratin ifs by a core cylinder flanked with gaussian chains scanning micro diffraction was used to study keratin at the bundle scale very different morphologies of keratin bundles were observed at different salt conditions at the network scale new imaging approaches and analyses were applied to the study of whole cells ptychography and scanning x ray nano diffraction imaging were performed on the same cells allowing for high resolution in real and reciprocal space thereby revealing the internal structure of these networks by using a fitting routine based on simulations of ifs packed on a hexagonal lattice the radius of each filament and distance between filaments were retrieved in

mammalian cells each nucleus contains 2 nm thick dna double helices with a total length of about 2 m the dna strands are packed in a highly hierarchical manner into individual chromosomes dna was studied in intact cells by visible light microscopy and scanning x ray nano diffraction unveiling the compaction und decompaction of dna during the cell cycle thus we obtained information on the aggregation state of the nuclear dna at a real space resolution on the order of few hundreds nm to exploit to the reciprocal space information individual diffraction patterns were analysed according to a generalised porod s law at a resolution down to 10 nm we were able to distinguish nucleoli heterochromatin and euchromatin in the nuclei and follow the compaction and decompaction during the cell division cycle

earlier reports are found in the summary

this work is an examination of all aspects of the science in developing effective dosage form for drug delivery pharmaceuticals refers to the subfield of pharmaceutical sciences that develops drug delivery products or devices to optimize the drug s performance once administered this multidisciplinary field draws on physical chemistry organic chemistry and biophysics to generate and refine these crucial elements of medical care moreover incorporating such disparate dimensions of drug product design as material properties and legal regulation bridges the gap between effective chemicals and viable medical treatments integrated pharmaceuticals provides a comprehensive introduction to the creation and manufacture of effective dosage forms for drug delivery it presents its subject following the principles of physical pharmacy product design and drug regulations this tripartite structure allows readers to move from theory to practice beginning from a firm foundation of physical pharmacy principles including drug solubility and stability estimation rheology and interfacial properties from there it proceeds to discussions of drug product design and of harmonizing pharmaceutical design with the regulatory regimens and technological standards of the united states european union and japan readers of the second edition of integrated pharmaceuticals will also find a glossary defining key terms extensive informative appendices and a list of references leading to the primary literature in the field for each chapter earlier chapters are expanded with additional new chapters including one entitled biotechnology products supplementary instructor guide with questions and solutions available online for registered professors updated regulatory guidelines including quality by design design space analysis process analytical technology polymorphism characterization blend sample uniformity and stability protocols integrated pharmaceuticals is a useful textbook for graduate students in pharmaceutical sciences drug formulation and design and biomedical engineering in addition professionals in the pharmaceutical industry including regulatory bodies will find it a helpful reference guide

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