

	Fonts (bases de dades)	Paraules clau	Articles seleccionats
<p>Are Fingerprints Unique? It is a commonplace belief that the thumbprint of every human who has ever lived is different. Develop and analyze a model that will allow you to assess the probability that this is true. Compare the odds (that you found in this problem) of misidentification by fingerprint evidence against the odds of misidentification by DNA evidence.</p>			
<p>Could one determine the three-dimensional shape of a protein from its aminoacid sequence? Protein folding is a crucial biological process in nature. Starting out as a long, linear chain of amino acids, a protein molecule remarkably configures itself, or folds, into a unique three-dimensional structure, called the native state, in order to perform vital biological functions. We have at least two important reasons for studying the folding process. First, better understanding of the folding process will help explain why and how proteins misfold and find therapies for debilitating diseases such. Second, this will aid in the development of better algorithms for structure prediction.</p>			
<p>Simulation of complex ecological systems The relationships among organisms and their surroundings can be of immense complexity. To describe and understand an ecosystem as a tangled bank, multiple ways of interaction and their effects have to be considered, such as predation, competition, mutualism and facilitation. Understanding the resulting interaction networks is a challenge in changing environments, e.g. to predict knock-on effects of invasive species and to understand how climate change impacts biodiversity</p>			