

May We Use Chiral Structures for Sensing?

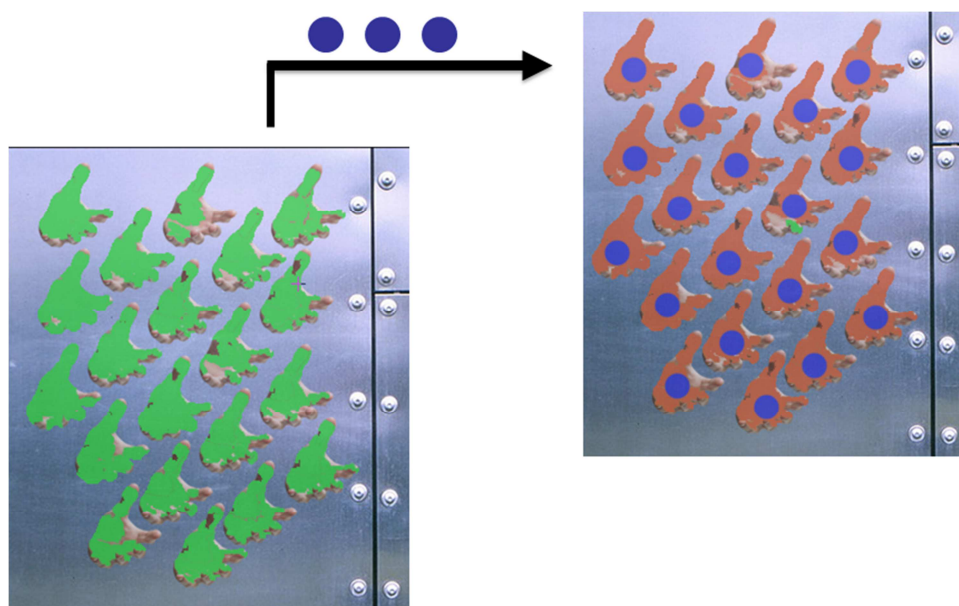
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Chiral systems have special responses to light. The, so called, chiroptical responses are strongly sensitive to conformational changes as well as to supramolecular interactions. That is the reason why circular dichroism (CD) or optical rotation dispersion (ORD) are often used for the characterization of these compounds and their complexes. Furthermore, access to structures with very potent chiroptical responses may open the possibility for using them as transducers. Population aging is one of the major problems we are facing in the coming years, this inevitably leads to an increase in chronic diseases and people who needs personalized medical monitoring. Medical care controlled by the individual patients is, therefore, essential to sustainably face this new demographic scenario. The advancement of telemedicine paves way for remote diagnosis avoiding unnecessary travel and reducing waiting times. To reduce costs and sizes, it is of great interest the exploration of new sensing methodology for biomarkers.