Knowledge Transposition from Tropical Fish Serum Proteins to Fundamental Education Students Through Biochemical Models

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The subject was represented and discussed at The National Week of Science and Technology, UFPE, an initiative from The Ministry of Science and Technology to encourage children and people in science and technology activities. The work aimed to renew the importance to transmit knowledge from simple, imaginative, biochemical models and interactive teaching. The stand tool contained an aquarium with fishes, five scale models showing peptide bond, carbohydrate inhibited lectin molecule, hemagglutination reaction, lectin-bacterium surface interaction and enzyme-substrate-inhibitor. Posters described tropical fish importance and methods applied to obtain fish serum and organs to purify lectins and protein inhibitors as well as to extract tissue DNA; notions were transmitted on fish immunology and diseases. The students were attracted and impressed with the exotic fishes most cultivated in Brazil; they asked if it is necessary to kill the fish to extract lectin and about lectin importance. Students were also interested to know if all fish enzyme/inhibitors are favorable to the own fish organism. The work succeeded to inform and stimulate future scientists in the field and to awake their scientific curiosity.

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