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CERCETARE

Domeniile mele de interes sunt chimia analitica, chimia mediului si toxicologia.

Una dintre temele de interes este intelegerea cailor de actiune ale cofactorilor Nefropatiei Endemice Balcanice, acizii aristolochici. Pentru o buna intelegere a nefropatiei endemice balcanice sunt de un real folos munca de teren combinata cu cea de laborator. In cadrul acestor cercetari au loc colectarea de probe de mediu (sol, carbune, apa, plante, aer), precum si analiza lor prin diferite tehnici de cromatografie (HPLC, LC-MS, GC-MS).

Un alt domeniu de interes este atat toxicologia analitica, cat si cea in vitro. Astfel se colecteaza probe de mediu (plante, apa, sol, etc.) si probe biologice (sange, plasma, ser, tesut, celule, urina, etc.) si se analizeaza compozitia chimica (LC-MS, GC-MS) si se testeaza citotoxicitatea anumitor compusi pe diferite tipuri de linii celulare cu diferite teste in vitro (MTT, Alamar Blue).

ARTICOLE

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