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Kort præsentation

Forskningsfelt

Mit primære forsknings område består i at udvikle assays til at undersøge toksikologiske effekter af partikler. Mine studier har bragt mig vidt omkring indenfor såvel *in vivo* som *in vitro* toksikologi, med fokus på nanomedicin, nanopartikler, mikroplastik og nanoplastik.

Nuværende forskning

Fokus for min nuværende forskning er primært udvikling og optimering af cellebaserede assays, hvor formålet er at undersøge celle-celle interaktioner og teste, om man kan få mere eller bedre information ud af at blande forskellige typer af celler i en co-kultur. Testsystemerne bruges til at undersøge toksikologiske effekter af forskellige typer forbrændingspartikler, hovedsagelig fokuseret på luftforureningspartikler i form af dieselpartikler, men også på brænderøgspartikler og andre typer af nanopartikler som f.eks. nanoplastik og mikroplastik. Mine primære interesser er interaktionen mellem partikler og celler, samt sammenhængen mellem partikel induceret oxidativt stress og inflammation samt DNA skader i cellerne.

Key words

Partikel toksikologi

Nanopartikler

Nanoplastik

Mikroplastik

Nanomedicin

co-kulturer

Oxidativt stress

DNA skader

Celle-celle interaktioner

Celle-partikel interaktioner

Pulmonære effekter

Kardiovaskulære effekter

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Publikationer

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