

Sub-programme: Drug Delivery Researchers

Researcher	Research activities	e-mail
Prof Minja Gerber	Transdermal and topical drug delivery Formulation Nano-drug delivery vehicles Dermal cytotoxicity and wound healing	Minja.Gerber@nwu.ac.za
Prof Chrisna Gouws	New approach methodologies (NAMs) 3D cell culture Disease modelling Cancer research Phytomedicines	Chrisna.Gouws@nwu.ac.za
Prof Sias Hamman	Nose to brain drug delivery Nasal drug delivery systems <i>Ex vivo</i> pharmacokinetic models Three dimensional cell culture models Phytochemical permeation enhancement	Sias.Hamman@nwu.ac.za
Prof Wilna Liebenberg	Solid-state properties of pharmaceuticals Solubility Amorphous and crystalline Polymorphism	Wilna.Liebenberg@nwu.ac.za
Prof Jan Steenekamp	Solid oral dosage forms Multiple unit pellet systems (MUPS) Functional excipients Direct compression	Jan.Steenekamp@nwu.ac.za
Prof Anita Wessels	Analytical method development and validation Quality control/Quality assurance	Anita.wessels@nwu.ac.za
Prof Dewald Steyn	<i>Ex vivo</i> drug permeation studies Nose-to-brain delivery Drug absorption enhancement Thermosensitive gel delivery systems	Dewald.Steyn@nwu.ac.za

Prof Lissinda du Plessis	Drug efficacy testing <i>In vitro</i> toxicology and cell culture Melanoma and anti-cancer activity screening 3D bioprinting	Lissinda.DuPlessis@nwu.ac.za
Dr Liezl Badenhorst	Solubility enhancement Solid-state and physicochemical characterisation	Liezl.Badenhorst@nwu.ac.za
Prof Joe Viljoen	Drug delivery system development Self-emulsifying drug delivery systems Modified drug release Lipid-based dosage forms Plant-based excipients	Joe.Viljoen@nwu.ac.za
Prof Marius Brits	Medicine quality Analytics and Analytical method development Validation Solid-state studies	Marius.Brits@nwu.ac.za
Dr Hannlie Hamman	Muco-adhesion Nasal drug delivery Nasal hydrogel and Thermosensitive nasal gel Synthetic membrane	Hannlie.Hamman@nwu.ac.za
Prof Righard Lemmer	Solid-state properties Polymorphism Amorphous stabilisation Thermal analysis Mathematical modelling	Righard.Lemmer@nwu.ac.za
Dr Anja Haasbroek-Pheiffer	Absorption enhancement Drug absorption Intranasal drug absorption Confocal microscopy Fluorescent microscopy	Anja.HaasbroekPheiffer@nwu.ac.za