

From University to Profession: Scientific Support in an Analytical Instrument Company

Guy Entract



UNIVERSITY OF HULL

- 1. MChem
- 2. PhD

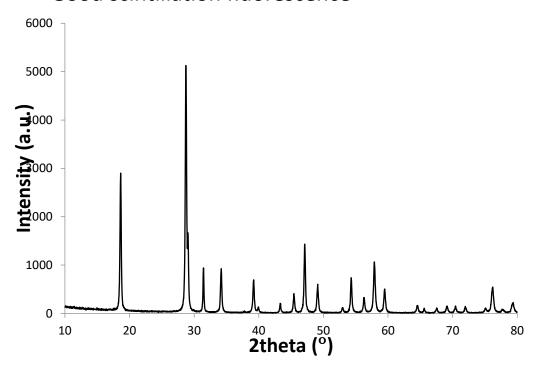


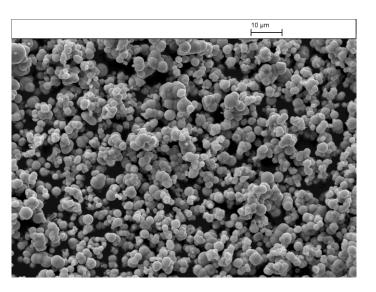


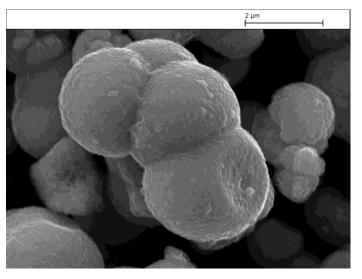
Conjugate system 1 - photosensitiser

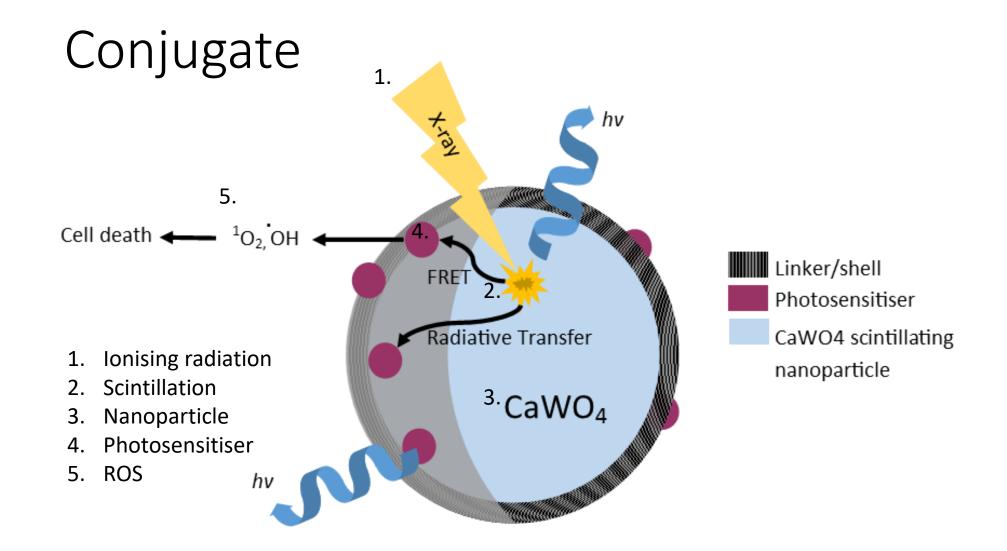
Nanoparticle Synthesis

- Facile microwave synthesis
- Ca(NO₃)₂, NaWO₄, NaOH, water 180°C, 1hr and annealing.
- Non-toxic/hygroscopic
- Good scintillation fluorescence









PhD and Post-Doc Experience

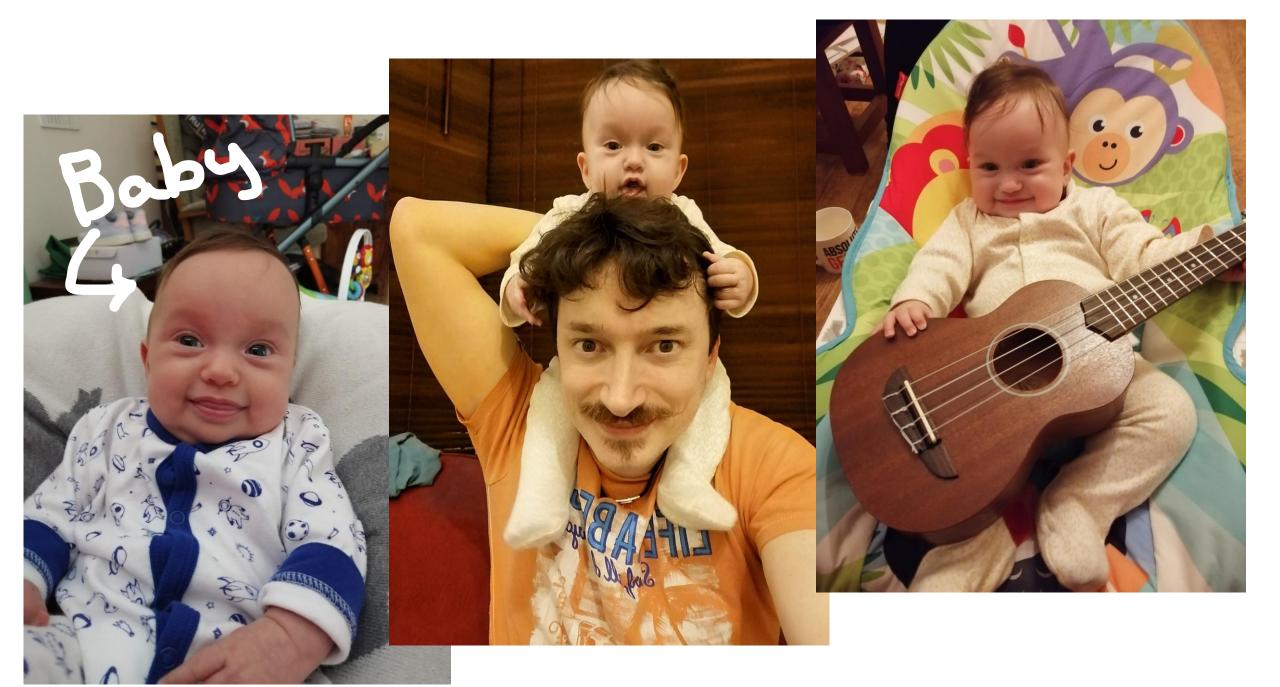
- HPLC (High Performance Liquid Chromatography)
- MS (Mass Spectrometry)
- NMR (Nuclear Magnetic Resonance)
- PXRD (Powder X-Ray Diffraction)
- SEM & TEM (Scanning/Transmission Electron Microscopy)
- FTIR (Fourier Transform InfraRed Spectroscopy)
- AFM (Atomic Force Microscopy)
- Microwave synthesis (<u>Amazing Instrument!</u>)
- UV-Vis/Fluorescence and Solid state UV-Vis (Spectroscopies)
- X-ray irradiator

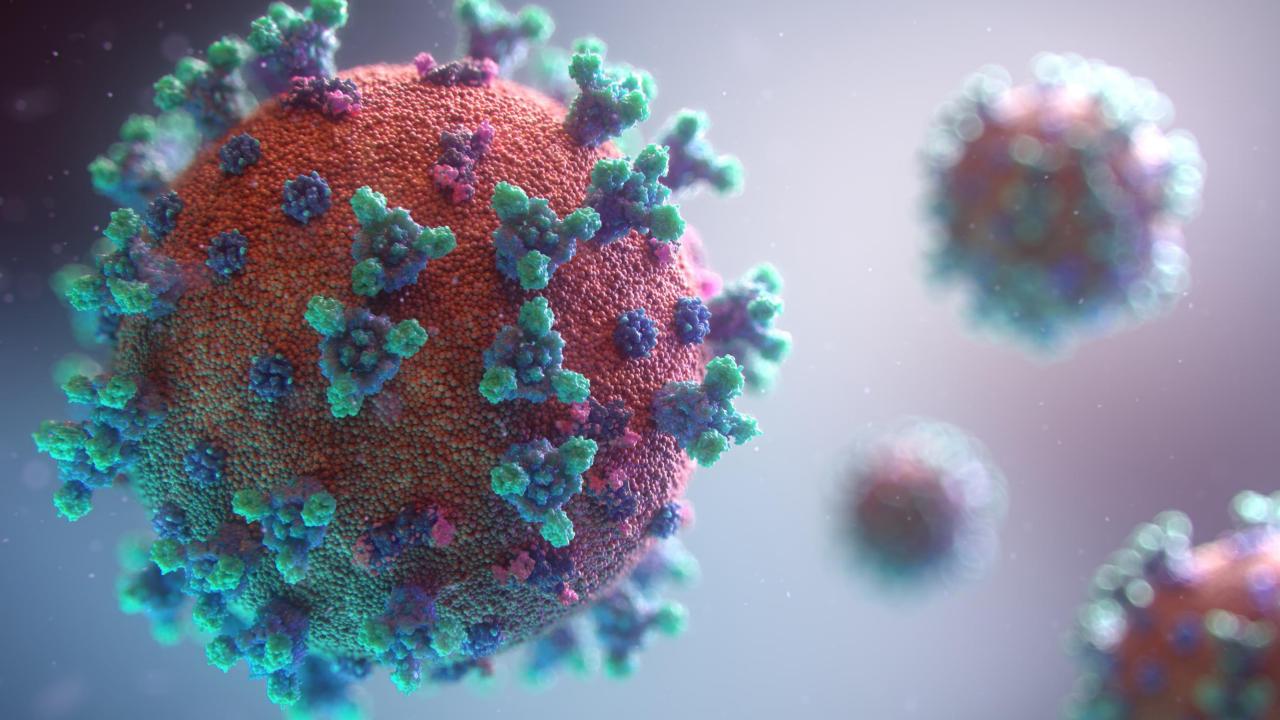




Selfies



















Philosophy & Company Motto



"Quality by all means"



Doping Control of the Athens Olympic Games 2004





































Science & Service Support

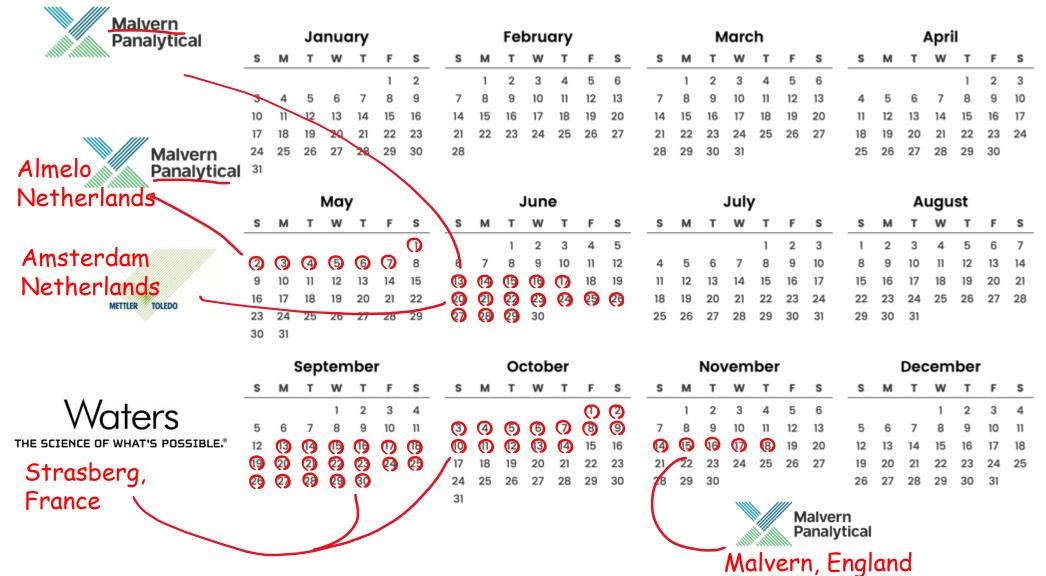
- Well-trained personnel (MSc, PhD) Chemists, Chemical Engineers, Biologists, Food Technologist, etc.,
- Installation and Repair
- Scientific Support
- Method Development
- Calibration (accredited Metrology Laboratory)
- ISO9001
- ISO13485 (Medical Devices).
- ISO17025

International Training

HELLAMCO*

Malvern, England

2022 Calendar



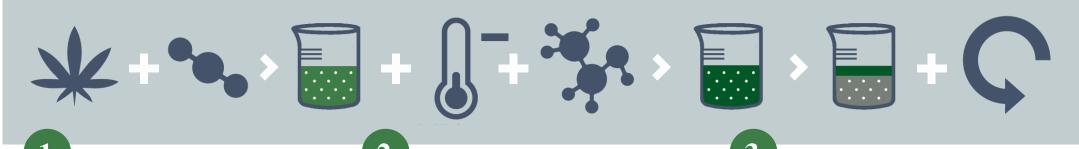


Pharmaceutical Cannabis



PROCESSING OVERVIEW





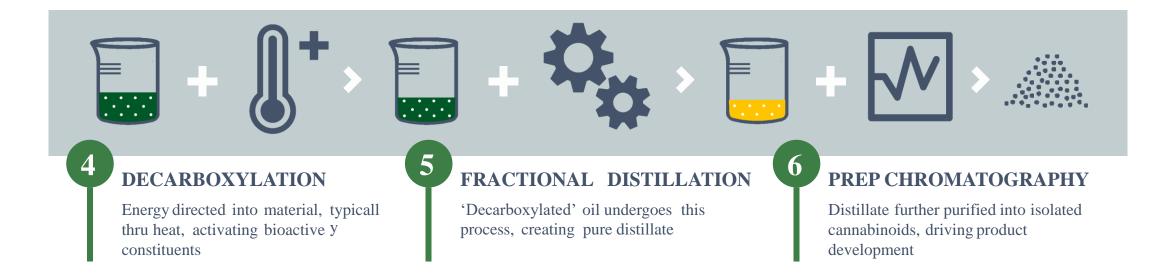
EXTRACTION

Plant matter is exposed to solvent to create waxy hash concentrate; terpenes captured WINTERIZATION/FILTRATION

Polar solvent is added; deep freeze for precipitation and filtration of waxes & lipids

ETHANOL RECOVERY

Resulting mixture processed with rotary evaporation and polar solvent to create refined oil







Processing Equipment

1st Supercritical CO₂ Extractors 1st Short path distillation







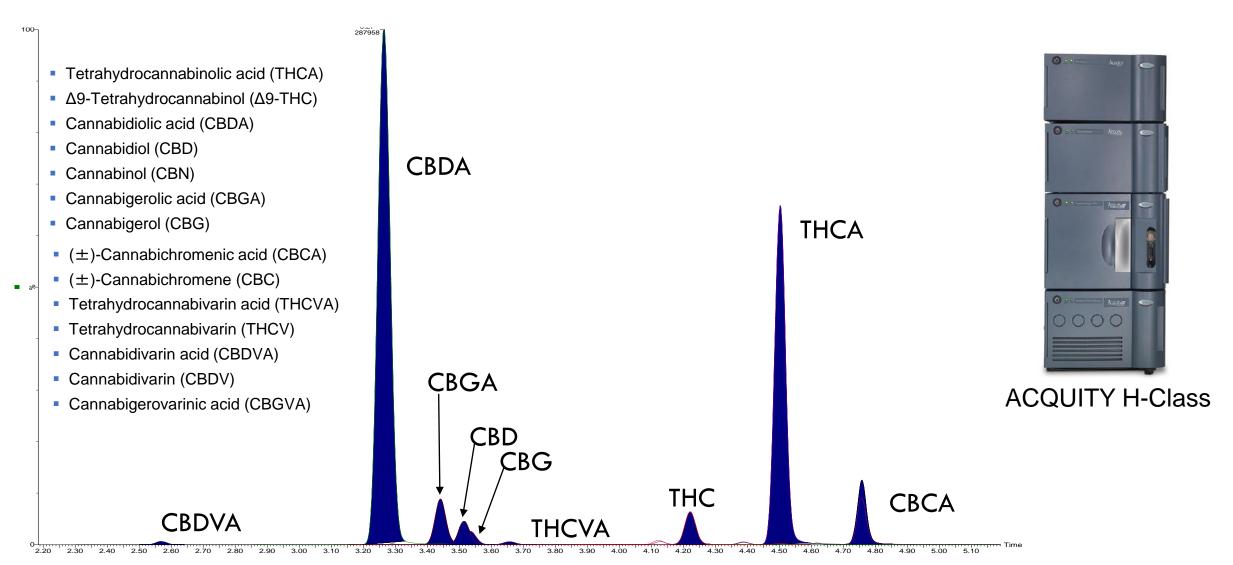


Complete Analytical Solution

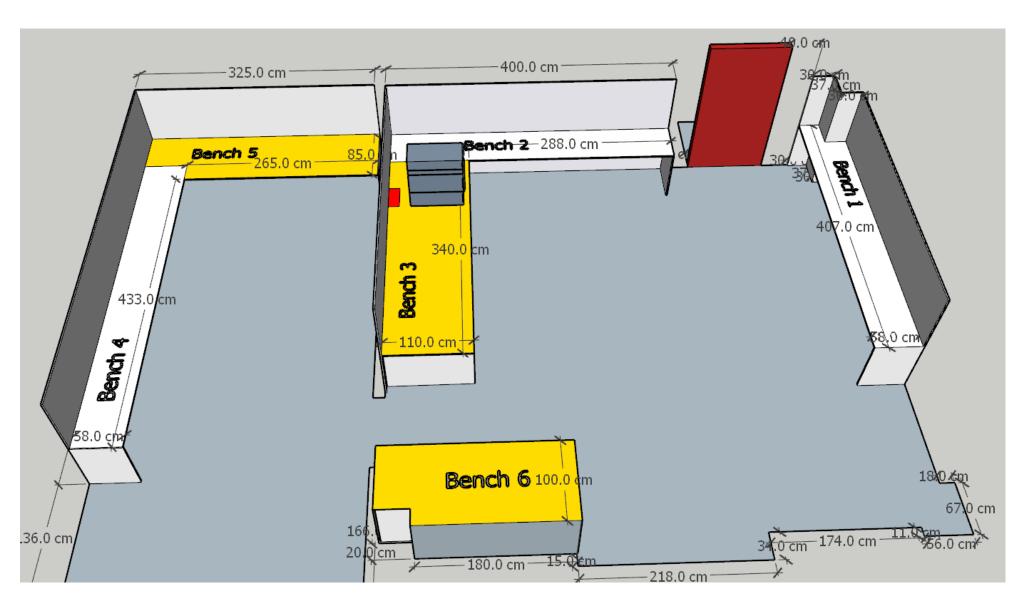
- Sample Preparation
- Standards Preparation
- Moisture Analysis
- Pesticide Analysis (UPLC-MS & GCMS)
- Cannabinoid Analysis (UPLC-UV)
- Terpene Analysis (GCMS)
- Microbial Analysis
- General Laboratory Equipment

Potency Testing 14 Cannabinoids by UPLC-UV in 5 min









Ευχαριστώ για την προσοχή σας

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HELLAMCO A.E.

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