



Development of a Novel Organometallic Ruthenium Drug Candidate with Macromolecule Binding Properties

Elisa Daldini

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Responsible
Prof. Paul Dyson
EPFL / LCOM

Supervisor
Wee Han Ang
EPFL / LCOM

1 Abstract

With a view to develop a system of conjugating RAPTA, an organometallic ruthenium drug candidate, to a macromolecule with the objective of targeted drug delivery, a novel ruthenium complex, RAPTA-FORM, was developed. The new complex contains an aldehyde functional group bound to the arene ring and has been characterised by spectroscopic and X-ray crystallography analyses. In addition, the feasibility of conjugating RAPTA-FORM to a carrier protein, human serum albumin, was investigated.