

Melissa van de L'Isle  
ESR11 Fellow

*Institution: Cancer research UK, IGMM*  
*Group: BOOM Chemistry*  
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Meeting 1  
Eindhoven, 26<sup>th</sup> March 2019

## Bachelor Chemistry (2008-2013)

University of Applied Sciences Hogeschool Utrecht, The Netherlands

- Research internship, Synthetic & Bio-organic chemistry, prof. Orru, VU Amsterdam (5 months)
  - *Topic: Synthesis of m-tyrosine using a chiral template, for an uridyl antibiotic*
- Bachelor graduation internship, Biosyn, prof. Overkleeft, Leiden University (7 months)
  - *Topic: Horner-Wadsworth-Emmons/ Julia-Koscienski reagents for the synthesis of the natural products Corydendramine A and B*

## Master Chemical Biology (2013-2017)

Leiden University, The Netherlands

- Master internship, Biosyn, prof. Overkleeft, Leiden University (1 year and 4 months)
  - *Topic: Synthesis of novel glucosylceramide synthase inhibitors*
- Erasmus internship, Medicinal Chemistry, prof. van Calenbergh, Ghent University, Belgium (5 months)
  - *Topic: Synthesis of 3'-C-ethynyl adenosine analogues for broad-range screening of potential anti-cytostatic & anti-viral activity*

## Technical assistant/laboratory technician (2017-2019)

Lead Discovery Center Dortmund, Germany

- *Multiple projects, peptide synthesis and catalysis for in-house screening*

## **Synthetic organic chemistry**

- carbohydrate chemistry, nucleoside chemistry, peptide chemistry, polymer chemistry

## **Biochemistry**

- Affinity based protein profiling
- Structure activity based relationship (competitive) inhibitors

## **Analytical techniques**

- Column separation chromatography (SiO & C-18, size-exclusion)
- Mass spectrometry (GC-MS, HPLC-MS, preparative HPLC-MS)
- NMR spectrometry (1H-NMR, 13C-NMR, 31P-NMR, 2D-NMR),
- IR spectrometry, UV-VIS spectrometry

## **Integrated cell biology**

- Cell culturing (HeLa cells, Jurkat cells, fibroblasts F44)
- Transfection
- Fluorescence imaging (EVOS imaging)

- Synthesis, analysis and application of nanoparticle devices
- Tissue culturing and imaging
- Teaching and supervision of student
- secondments