Stellingen behorend bij het proefschrift:

## NEW FEATURES OF SIALYLATED LIPO-OLIGOSACCHARIDE STRUCTURES IN CAMPYLOBACTER JEJUNI

- Ganglioside-like lipo-oligosaccharide structures prevent Campylobacter jejuni from bacteriophage infections. (This Thesis)
- **2.** The *Campylobacter jejuni* CRISPR-Cas system is primarily involved in bacteriophage defense in isolates lacking ganglioside-like lipo-oligosaccharide structures. (This Thesis)
- **3.** Ganglioside-like lipo-oligosaccharide structures and the CRISPR-Cas system are important *Campylobacter jejuni* virulence factors. (This Thesis)
- **4.** The *Campylobacter jejuni* CRISPR associated gene *csn1* is a target candidate for novel antimicrobials. (This Thesis)
- Bacterial co-localization with endosomal markers distinguishes intra-cellular and extra-cellular localization. (This Thesis)
- **6.** Isolation of a ganglioside-like lipo-oligosaccharide negative *Campylobacter coli* strain from Guillain-Barré patients suggests involvement of other mechanisms than anti-ganglioside mimic antibodies alone. (This Thesis)
- Bacterial pathogens are innocent bystanders although they are cultured from diseased patients; bacteriophages are the real causative agents. (Future Microbiol. 2007 Apr;2(2):165-74)
- 8. Swift Bird's nest soup stimulates the immune system. (Biodiversity and Conservation 13: 2209-2226)
- 9. Saving on scientific research is an economic disaster. (The Albert and Mary Lasker Foundation)
- **10.** Politicians wanted us to become Europeans, the current crisis shows that the real Europeans are not politicians.
- 11. The most beautiful thing we can experience is the mysterious. It is the source of all true art and all science. He (or she) to whom this emotion is a stranger, whom can no longer pause to wonder and stand rapt in awe, is as good as dead: his eyes are closed. (Albert Einstein)

**ROGIER P. L. LOUWEN** 

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