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Endomembrane mutiny: how picornaviruses hijack host organelles to support their replication

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CURRICULUM VITAE

Charlotte Melia was born on 30th August 1989 in Bolton, United Kingdom, where she completed her secondary school education. She undertook her undergraduate studies at the University of York, United Kingdom, in 2007, and was awarded a BSc in Biology in 2011. She subsequently attained a post-graduate Bioscience Technology MSc qualification at the University of York in 2013. As part of this qualification Charlotte undertook research with Dr. Lucy M. Collinson at Cancer Research UK, London, studying the morphology and composition of the nucleoplasmic reticulum by light and electron microscopy. Charlotte then moved to the Netherlands where she carried out her PhD research in the group of Prof. Abraham J. Koster at Leiden University Medical Center under the supervision of Dr. Montserrat Bárcena. In 2018, Charlotte joined the group of Dr. Tanmay Bharat at the Sir William Dunn School of Pathology, University of Oxford, United Kingdom, studying bacterial biofilms and their formation using (cryo)electron microscopy.

LIST OF PUBLICATIONS

Locating macromolecules and determining structures inside bacterial cells using electron cryotomography

Melia CE and Bharat TAM

Biochimica et Biophysica Acta - Proteins & Proteomics. 2018 Sept 9:973-981

The Origin, Dynamic Morphology, and PI4P-Independent Formation of Encephalomyocarditis Virus Replication Organelles

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Correlative and integrated light and electron microscopy of in-resin GFP fluorescence, used to localise diacylglycerol in mammalian cells

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Ultramicroscopy. 2014 Aug;143:3-14.

SHORTLIST OF FREQUENTLY USED ABBREVIATIONS

TEM	Transmission electron microscopy
SEM	Scanning electron microscopy
SBF-SEM	Serial block-face scanning electron microscopy
ET	Electron tomography
CLEM	Correlative light and electron microscopy
RO(s)	Replication organelle(s)
DMV	Double-membrane vesicle
SMV/T	Single-membrane vesicle/tubule
CVB3	Coxsackievirus 3B
EMCV	Encephalomyocarditis virus
PI4P	Phosphatidylinositol-4 phosphate
PI4KB	Phosphatidylinositol-4 kinase 3 beta
LD(s)	Lipid droplet(s)
IFN	Interferon
PKR	Protein kinase R
MAVS	Mitochondrial antiviral-signaling protein

