

# DR. REDMOND SMYTH

## Helmholtz Young Investigator

Helmholtz Institute for RNA-based Infection Research (HIRI)

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### Education

- 2011 PhD, Monash University, Australia
- 2003 BA, Virology and Immunology, University of Cambridge, UK

### Positions

- 2018 - present Helmholtz Junior Group Leader & Junior Professor (W1), Helmholtz Institute for RNA-based Infection Research (HIRI), Würzburg, Germany
- 2015 - 2018 Independent Researcher (Chargé de Recherche, CR2), National Center for Scientific Research (CRNS), IBMC, Strasbourg, France
- 2011 - 2015 Postdoc, CNRS, IBMC, Strasbourg, France

### Awards & Honors

Helmholtz Young Investigator (2018 - 2023), Prime d'encadrement de recherche (PEDR), IdEx Postdoctoral Fellowship (2013 - 2015), ANRS Postdoctoral Fellowship (2011 - 2013), Northcote International PhD Scholarship (2005 - 2008)

### Current Boards

Virology Journal (Associate Editor), Virus and Host (Review Editor), Frontiers in Cellular and Infection Microbiology

### Selected Publications

- Mailler E, Paillart JC, Marquet R, **Smyth RP**, Vivet-Boudou V (2019)  
*The evolution of RNA structural probing methods: From gels to next-generation sequencing*  
*Wiley Interdiscip Rev RNA* 10(2):e1518
- Smyth RP**, Smith MR, Jousset AC, Despons L, Laumond G, Decoville T, Cattenoz P, Moog C, Jossinet F, Mougél M, Paillart JC, von Kleist M, Marquet R (2018)  
*In cell mutational interference mapping experiment (in cell MIME) identifies the 5' polyadenylation signal as a dual regulator of HIV-1 genomic RNA production and packaging*  
*Nucleic Acids Research* 46(9):e57
- Smyth RP**, Despons L, Huili G, Bernacchi S, Hijnen M, Mak J, Jossinet F, Weixi L, Paillart JC, von Kleist M, Marquet R (2015)  
*Mutational interference mapping experiment (MIME) for studying RNA structure and function*  
*Nature Methods* 12(9):866-72
- Abd El-Wahab EW, **Smyth RP**, Mailler E, Bernacchi S, Vivet-Boudou V, Hijnen M, Jossinet F, Mak J, Paillart JC, Marquet R (2014)  
*Specific recognition of the HIV-1 genomic RNA by the Gag precursor*  
*Nature Communications* 5:4304
- Gavazzi C, Yver M, Isel C, **Smyth RP**, Rosa-Calatrava M, Lina B, Moulès V, Marquet R (2013)  
*A functional sequence-specific interaction between influenza A virus genomic RNA segments*  
*PNAS* 110(41):16604-9