

Dr. Redmond Smyth

Helmholtz Junior Group Leader

Helmholtz Institute for RNA-based Infection Research (HIRI)

Josef-Schneider-Str. 2 / Building D15

97080 Würzburg | Germany

+49 931 31 89152

redmond.smyth@helmholtz-hiri.de | www.helmholtz-hiri.de



Education

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

Positions

- 2018 - 2024 Junior Professor (W1), Faculty of Medicine, University of Würzburg, Germany
2018 - 2024 Head of Helmholtz Young Investigator Group, 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

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

Editorial Boards

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

Selected Publications

- Ye L, Gribling-Burrer AS*, Bohn P*, Kibe A, Börlein C, Ambi UB, Ahmad S, Olguin-Nava M, Smith M, Caliskan N, von Kleist M, **Smyth RP** (2022) *Short- and long-range interactions in the HIV-1 5' UTR regulate genome dimerization and packaging* **Nature Structural & Molecular Biology** 29(4):306-319
- 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):866-872
- 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):16604-16609