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POLYMERASES OF PARAMYXOVIRUSES AND PNEUMOVIRUSES**Rachel Fearn^{1*} and Richard K Plemper²**¹Department of Microbiology, Boston University School of Medicine, Boston MA 02118²Institute for Biomedical Sciences, Georgia State University, Atlanta GA 30303

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- Paramyxoviruses and pneumoviruses are non-segmented negative strand RNA viruses.
- Their polymerases can transcribe and replicate the viral genome.
- Residues essential for different steps in these processes have been identified.
- These residues can be mapped onto the structure of a related polymerase.
- Small molecule inhibitors that target the polymerase complex are described.

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