ꯑꯦꯗꯤꯇꯣꯔꯤꯌꯦꯜ IMPHAL, WEDNESDAY, ꯑꯎꯘꯎꯈꯠ 19, 2020 ꯌꯨꯝꯁꯀꯩꯁ, ꯊꯋꯥꯟꯒꯤ ꯊꯥꯁꯨ, ꯃꯥꯂꯤꯌꯥ ꯀꯨꯝꯁꯤꯡ 3418 obT\ꯂꯩ ꯃꯀꯩꯋ꯭ꯀ 2 HUEIYEN LANPAO ꯍꯨꯏꯌꯦꯟ ꯂꯥꯟꯄꯥꯎ
ꯌꯨꯝꯁꯀꯩꯁ, ꯑꯣꯒꯁꯠ 19, 2020, ꯏꯝꯐꯥꯜ
12 ꯁꯨꯕ ꯆꯍꯤ, 121 ꯁꯨꯕ ꯃꯁꯤꯡ
ꯄꯥꯎꯆꯦ ꯑꯁꯤꯗ ꯐꯣꯡꯖꯔꯤꯕ ꯋꯥꯔꯦꯡꯁꯤꯡ ꯑꯁꯤꯒꯤ ꯋꯥꯈꯜ, ꯃꯤꯠꯌꯦꯡ ꯑꯏꯕ ꯃꯁꯥ ꯃꯁꯥꯒꯤꯅꯤ꯫ ꯄꯥꯎꯆꯦ ꯑꯁꯤꯒ ꯄꯥꯎꯆꯦ ꯑꯁꯤꯒꯤ ꯋꯥꯈꯜꯂꯣꯟ ꯑꯃꯁꯨꯡ ꯃꯤꯠꯌꯦꯡꯒ ꯊꯣꯏꯗꯣꯛꯅ ꯃꯔꯤ ꯂꯩꯅꯗꯦ꯫

‘ꯁꯦꯛꯄꯤꯒꯤ ꯀꯔꯝꯕ ꯁꯨꯄꯔ ꯏꯝꯃ꯭ꯌꯨꯅꯤꯇꯤꯅ ꯚꯥꯏꯔꯁ
ꯏꯟꯐꯦꯛꯁꯟꯁꯤꯡꯗꯒꯤ ꯃꯁꯥꯕꯨ ꯉꯥꯛꯊꯣꯛꯆꯔꯤꯕꯅꯣ’

ꯁꯦꯛꯄꯤꯁꯤꯡ ꯑꯁꯤ Eocene ꯍꯥꯏꯕꯗꯤ ꯆꯍꯤ ꯃꯤꯂꯤꯌꯟ 58ꯗꯒꯤ ꯃꯤꯂꯤꯌꯟ 40 ꯐꯥꯎꯕ ꯃꯇꯝꯒꯤ ꯑꯅꯧꯕ ꯈꯣꯝꯂꯥꯡ ꯊꯛꯄꯥ (ꯃꯥꯃꯃꯥꯂꯁ), Chiroptera order ꯗ ꯆꯟꯕ ꯖꯤꯕꯅꯤ꯫ ꯎꯆꯤ ꯀꯥꯡꯂꯨꯞꯀꯤ ꯍꯦꯛ ꯃꯊꯪꯗ ꯁꯦꯛꯄꯤꯅ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯃꯈꯜ ꯌꯥꯝꯅ ꯃꯥꯃꯃꯥꯂꯁ ꯑꯣꯏ꯫ ꯁꯦꯛꯄꯤꯁꯤꯡ ꯑꯁꯤ ꯃꯥꯂꯦꯝꯒꯤ ꯇꯣꯉꯥꯟ-ꯇꯣꯉꯥꯟꯕ ꯃꯐꯝꯗꯒꯤ ꯈꯦꯟꯅꯕ ecological ꯅꯤꯆꯍꯦꯁ ꯁꯤꯡꯗ ꯂꯩ꯫ ꯃꯈꯣꯏꯒꯤ ꯇꯣꯞ-ꯇꯣꯞꯄ ꯃꯒꯨꯟ ꯍꯥꯏꯔꯒꯗꯤ ꯈꯣꯡꯂꯩ ꯊꯨꯅ ꯄꯥꯏꯕ ꯉꯝꯕ, -ꯍꯥꯏꯕꯗꯤ ꯄꯣꯠꯁꯛ ꯅꯠꯇ꯭ꯔꯒ ꯂꯩꯃꯥꯏ ꯑꯃꯒꯤ ꯑꯔꯥꯄꯄꯗꯨ ꯊꯛꯇꯣꯔꯛꯄ ꯃꯈꯣꯜꯅ ꯑꯣꯟꯕ/ꯈꯪꯕ ꯉꯝꯕ, ꯈꯣꯟꯖꯦꯜ ꯇꯝꯕ ꯉꯝꯕ, ꯄꯨꯟꯁꯤ ꯁꯥꯡꯕ ꯑꯃꯁꯨꯡ ꯇꯣꯞ-ꯇꯣꯞꯄ ꯍꯛꯆꯥꯡꯒꯤ ꯏꯝꯃ꯭ꯌꯨꯟ ꯁꯤꯁꯇꯝ ꯂꯩꯖꯕ ꯑꯁꯤꯅꯤ꯫ ꯃꯈꯣꯏꯒꯤ ꯀꯜꯂꯕ ꯏꯝꯃ꯭ꯌꯨꯟ ꯁꯤꯁꯇꯝ ꯑꯁꯤꯅ ꯃꯤꯑꯣꯏ ꯑꯃꯁꯨꯡ ꯑꯇꯣꯞꯄ ꯃꯥꯃꯃꯥꯂꯁ ꯁꯤꯡꯗ ꯂꯥꯏꯅ ꯀꯌꯥ ꯅꯥꯍꯟꯗꯨꯅ ꯁꯤꯍꯟꯕ ꯉꯝꯕ ꯚꯥꯏꯔꯁꯁꯤꯡ ꯈꯨꯗꯝ ꯑꯣꯏꯅ SARS (ꯈꯦꯚꯦꯔꯦ ꯑꯆꯨꯇꯦ Respiratory ꯈꯌꯅꯗꯔꯣꯃꯦ), MERS ꯕꯨ (Middle East Respiratory ꯈꯌꯅꯗꯔꯣꯃꯦ) ꯅꯥꯍꯜꯂꯤꯕ ꯀꯣꯔꯣꯅꯥꯚꯥꯏꯔꯁ ꯑꯃꯁꯨꯡ Ebola ꯚꯤꯔꯨꯁ ꯁꯤꯡꯗꯒꯤ ꯉꯥꯛꯊꯣꯛꯄ ꯉꯝꯖꯩ꯫ ꯃꯔꯝ ꯑꯁꯤꯅ ꯁꯦꯛꯄꯤꯁꯤꯡ ꯑꯁꯤ ꯄꯨꯟꯁꯤ ꯁꯥꯡꯗꯣꯛꯍꯟꯕ, ꯂꯥꯏꯅꯥ-ꯇꯤꯜꯅ ꯉꯥꯛꯊꯣꯛꯄ ꯍꯦꯟꯒꯠꯍꯟꯕꯒꯤ ꯆꯥꯉꯌꯦꯡ ꯇꯧꯕꯗ, ꯃꯈꯣꯜꯁꯤꯡꯅ ꯄꯥꯎ ꯐꯥꯎꯟꯕ ꯑꯃꯁꯨꯡ ꯁꯦꯅꯁꯣꯔꯌ ꯒ ꯃꯔꯤ ꯂꯩꯅꯕ ꯔꯤꯁꯥꯔꯁ ꯇꯧꯔꯨꯕꯗ ꯃꯔꯨ ꯑꯣꯏꯕ ꯃꯣꯗꯦꯂ organism ꯑꯣꯏꯅ ꯁꯤꯖꯤꯟꯅꯩ꯫ ꯃꯈꯣꯏꯒꯤ ꯄꯥꯏꯕ ꯉꯝꯕ ꯑꯁꯤꯅ ꯆꯥꯎꯕ ꯃꯥꯟꯅꯕ ꯎꯁꯤꯅ ꯆꯦꯟꯕ-ꯆꯣꯡꯕ ꯃꯇꯝꯗ ꯂꯩꯕ ꯍꯛꯆꯥꯡꯒꯤ ꯃꯦꯇꯥꯕꯣꯂꯤꯆ ꯔꯥꯇꯦ ꯇꯒꯤ ꯁꯔꯨꯛ ꯑꯅꯤ ꯍꯦꯟꯅ ꯋꯥꯡꯏ꯫ ꯇꯁꯦꯡꯅꯃꯛꯇꯤ ꯄꯍꯌꯁꯤꯆꯥꯂ activity ꯀꯥ ꯍꯦꯟꯅ ꯇꯧꯕ, ꯍꯛꯆꯥꯡꯒꯤ ꯃꯦꯇꯥꯕꯣꯂꯤꯆ ꯔꯥꯇꯦ ꯋꯥꯡꯕꯁꯤꯅ ꯈꯨꯗꯝ ꯑꯣꯏꯅ ꯐ꯭ꯔꯦ ꯔꯦꯗꯤꯀꯦꯜꯁꯤꯡ ꯄꯦꯁꯤꯟꯍꯟꯕꯒꯤ ꯃꯔꯝ ꯑꯣꯏ ꯑꯃꯁꯨꯡ ꯃꯁꯤꯅ ꯇꯤꯁ꯭ꯌꯨꯁꯤꯡꯗ ꯑꯃꯥꯡ-ꯑꯇꯥ ꯊꯣꯛꯍꯜꯂꯤ꯫ ꯑꯗꯨꯕꯨ ꯄꯥꯏꯕ ꯉꯝꯕꯒꯤ ꯁꯛꯇꯤ ꯂꯩꯕꯅ ꯁꯦꯛꯄꯤꯁꯤꯡꯅ ꯇꯤꯁ꯭ꯌꯨꯁꯤꯡꯗ ꯁꯣꯛꯅꯤꯡꯉꯥꯏꯒꯤ ꯃꯆꯥꯛ ꯑꯣꯏꯔꯤꯕ ꯐ꯭ꯔꯤ ꯔꯦꯗꯤꯀꯦꯜꯁꯤꯡ ꯑꯁꯤꯕꯨ ꯍꯛꯆꯥꯡꯗꯒꯤ ꯃꯥꯡꯍꯟꯅꯕ physiological ꯃꯦꯆꯍꯥꯅꯤꯁꯃ ꯁꯦꯝꯒꯅꯩ꯫ ꯂꯣꯏꯅꯅ ꯏꯟꯐ꯭ꯂꯦꯃꯦꯁꯟꯅ ꯃꯔꯝ ꯑꯣꯏꯗꯨꯅ ꯊꯣꯛꯍꯟꯕ ꯔꯤꯑꯦꯛꯇꯤꯚ ꯃꯣꯂꯤꯀ꯭ꯌꯨꯜꯁꯤꯡꯗꯒꯤ ꯉꯥꯛꯊꯣꯛꯇꯨꯅ ꯁꯦꯛꯄꯤꯁꯤꯡꯅ ꯀꯥ ꯍꯦꯟꯅ ꯃꯄꯨꯟꯁꯤ ꯁꯥꯡꯅ ꯍꯤꯡꯕ ꯉꯝꯃꯤ꯫ ꯇꯁꯦꯡꯕꯃꯛꯇꯤ ꯑꯄꯤꯛꯄ ꯖꯤꯕꯁꯤꯡꯗ ꯍꯥꯔꯇ ꯕꯤꯠ ꯔꯦꯠ ꯑꯃꯗꯤ ꯃꯣꯇꯤ ꯃꯦꯇꯥꯕꯣꯂꯤꯖꯝ ꯋꯥꯡꯕꯁꯤꯡ ꯑꯁꯤ ꯍꯥꯔꯠ ꯕꯤꯠ ꯑꯃꯁꯨꯡ ꯕꯣꯗꯤ ꯃꯦꯇꯥꯕꯣꯂꯤꯖꯝ ꯍꯦꯝꯕ ꯑꯆꯧꯕ ꯖꯤꯕꯁꯤꯡꯒ ꯆꯥꯡꯗꯝꯅꯕꯗ ꯄꯨꯟꯁꯤ ꯁꯥꯉꯒꯟꯗꯦ꯫ ꯑꯗꯨꯕꯨ ꯁꯦꯛꯄꯤꯗꯤ ꯆꯍꯤ ꯅꯤꯐꯨꯃꯨꯛ ꯍꯤꯡꯕ ꯉꯝꯃꯤ ꯑꯗꯨꯒ ꯍꯛꯆꯥꯡꯒꯤ ꯁꯥꯏꯖ ꯃꯥꯟꯅꯕ ꯎꯆꯤꯁꯤꯡꯅ ꯆꯍꯤ ꯑꯅꯤꯈꯛꯇꯃꯛ ꯍꯤꯡꯕ ꯉꯝꯃꯤ꯫
Cora E Brook ꯑꯃꯁꯨꯡ ꯃꯍꯥꯛꯀꯤ ꯀꯥꯡꯕꯨꯅ ꯁꯦꯛꯄꯤ ꯃꯈꯜ ꯑꯅꯤ ꯍꯥꯏꯕꯗꯤ Rousettus aegyptiacus
- Egypt ꯀꯤ ꯎꯍꯩ ꯆꯥꯕ ꯁꯦꯛꯄꯤ; Pteropus alecto - Australia ꯒꯤ ꯑꯃꯨꯕ ꯃꯈꯜꯒꯤ ꯁꯦꯛꯄꯤ; ꯂꯣꯏꯅꯅ Vero-ꯑꯐꯔꯤꯆꯥ ꯒꯤ green ꯃꯣꯅꯀꯦꯌ ꯍꯥꯏꯅ ꯈꯪꯅꯔꯤꯕꯤ ꯌꯣꯡ ꯑꯁꯤꯕꯨꯅ ꯀꯟꯇ꯭ꯔꯣꯜ ꯑꯣꯏꯟ ꯁꯤꯖꯤꯟꯅꯗꯨꯅ ꯃꯈꯣꯏꯒꯤ ꯁꯦꯜ ꯀꯜꯆꯔꯁꯤꯡ ꯁꯤꯖꯤꯅꯅꯗꯨꯅ ꯏꯝꯃ꯭ꯌꯨꯟ ꯔꯦꯁꯄꯣꯟꯁꯀꯤ ꯃꯇꯥꯡꯗ ꯆꯥꯡꯌꯦꯡ ꯇꯧꯈꯤ꯫ ꯏꯖꯤꯞꯠꯀꯤ Rousettus aegyptiacus Asi Marburg virus ki lEfM, host ni AmsuZ Australia gi Pteropus alecto n ꯊꯦꯅꯗꯔꯥ ꯚꯤꯔꯨꯁ ꯀꯤ ꯍꯣꯁꯇꯅꯤ꯫ ꯚꯥꯏꯔꯁ ꯁꯦꯜꯁꯤꯡꯗ ꯏꯟꯐꯦꯛꯁꯟ ꯊꯣꯛꯄ ꯃꯇꯝꯗ ꯁꯦꯜꯁꯤꯡꯅ ꯃꯁꯥ ꯉꯥꯛꯊꯣꯛꯆꯅꯕ ꯑꯃꯁꯨꯡ ꯁꯦꯜ ꯑꯃꯒ ꯁꯦꯜ ꯑꯃꯒꯒꯤ ꯃꯔꯛꯇ ꯄꯥꯎ ꯐꯥꯎꯅꯅꯕꯒꯤ ꯄꯨꯊꯣꯛꯄ interferon ꯍꯥꯏꯕ ꯁꯤꯒꯅꯥꯂꯂꯤꯅꯒ protein Asi Rousettus aegyptiacus k caZdMnbd Pteropus alecto haIb seKpi mSL Asidn mtM ꯍꯦꯟꯅ ꯆꯪꯏ/ꯊꯤꯟꯊꯩ꯫ ꯑꯗꯨꯕꯨ ꯑꯐ꯭ꯔꯤꯀꯥꯅ ꯒ꯭ꯔꯤꯅ ꯃꯪꯀꯤꯒꯤ ꯁꯦꯜ ꯂꯥꯏꯟꯁꯤꯡꯗꯤ interferon ꯑꯁꯤ ꯚꯥꯏꯔꯁ ꯏꯟꯐꯦꯛꯁꯟ ꯊꯣꯛꯄ ꯃꯇꯝꯗ ꯄꯨꯊꯣꯛꯇꯦ꯫ ꯆꯥꯡꯌꯦꯡ ꯑꯗꯨꯗꯨ ꯍꯥꯏꯔꯤꯕ ꯖꯤꯕ ꯑꯍꯨꯝꯁꯤꯗ ꯑꯕꯣꯂꯥ ꯑꯃꯁꯨꯡ Marburg ꯚꯤꯔꯨꯁ ꯀꯤ ꯃꯇꯧ ꯃꯥꯟꯕ ꯁꯦꯝꯗꯣꯛꯂꯕ ꯚꯥꯏꯔꯁꯁꯤꯡꯅ ꯏꯟꯐꯦꯛꯁꯟ ꯇꯧꯍꯟꯕ ꯃꯇꯝꯗ ꯑꯐ꯭ꯔꯤꯀꯥꯟ ꯒ꯭ꯔꯤꯟ ꯃꯪꯀꯤꯒꯤ ꯁꯦꯜ ꯂꯥꯏꯟꯁꯤꯡ ꯈꯨꯗꯛꯇ ꯁꯤꯈꯤ꯫ ꯑꯗꯨꯕꯨ, ꯁꯦꯛꯄꯤ ꯑꯅꯤꯁꯤꯒꯤ ꯃꯔꯛꯇ ꯑꯣꯁꯇ꯭ꯔꯦꯂꯤꯌꯥꯒꯤ Pteropus alecto ꯅ ꯏꯒꯖꯤꯞꯠꯀꯤ Rousettus aegyptiacus ki seL laINsiZgi interferon gi response ASin heNn maI paKn ꯚꯥꯏꯔꯁꯁꯤꯡ ꯑꯁꯤꯕꯨ ꯉꯥꯛꯊꯣꯛꯄ ꯉꯝꯈꯤ꯫ ꯑꯗꯨꯕꯨ ꯍꯦꯟꯅ ꯂꯨꯔꯤꯕꯗꯤ ꯏꯝꯃ꯭ꯌꯨꯟ ꯔꯦꯁꯄꯣꯟꯁ ꯑꯁꯤꯗꯒꯤ ꯍꯤꯡꯍꯧꯕ ꯚꯥꯏꯔꯁꯀꯤ ꯁꯦꯜꯁꯤꯡꯅ ꯑꯅꯧꯕ ꯇꯥꯔꯒꯦꯠ ꯁꯦꯜꯁꯤꯡꯗ ꯃꯈꯣꯏꯒꯤ ꯃꯁꯤꯡ ꯍꯦꯟꯒꯠꯍꯟꯗꯨꯅ ꯁꯦꯛꯄꯤꯁꯤꯡꯗ ꯃꯄꯨꯟꯁꯤ ꯆꯨꯞꯄꯒꯤ ꯑꯣꯏꯅ ꯌꯥꯎꯗꯨꯅ ꯂꯩ꯫
ꯃꯤꯑꯣꯏꯕꯁꯤꯡꯗꯁꯨ ꯏꯟꯐꯦꯛꯁꯟ ꯊꯣꯛꯍꯜꯂꯛꯄꯒꯤ ꯍꯧꯔꯛꯐꯝ ꯑꯣꯏꯔꯤꯕ ꯁꯦꯛꯄꯤꯁꯤꯡꯗ ꯚꯥꯏꯔꯀꯤ ꯃꯥꯌꯣꯛꯇ ꯑꯦꯟꯇꯤ ꯚꯥꯏꯔꯦꯜ ꯏꯝꯃ꯭ꯌꯨꯟ ꯔꯦꯁꯄꯣꯟꯁ ꯗꯤꯚꯂꯞ ꯇꯧꯈꯤꯕꯅ ꯃꯇꯨꯡ ꯇꯥꯔꯛꯄ ꯏꯟꯐꯦꯛꯁꯟ ꯀꯌꯥꯗꯁꯨ ꯈꯣꯡꯂꯩ ꯊꯨꯅ ꯔꯦꯁꯄꯣꯟꯁ ꯇꯧꯗꯨꯅ ꯁꯦꯜꯁꯤꯡꯕꯨ ꯚꯥꯏꯔꯁꯇꯒꯤ ꯉꯥꯛꯊꯣꯛꯆꯩ꯫ ꯑꯗꯨꯕꯨ ꯁꯦꯛꯄꯤꯗ ꯌꯥꯎꯕ ꯚꯥꯏꯔꯁꯁꯤꯡ ꯑꯁꯤꯅ ꯑꯇꯣꯞꯄ ꯍꯣꯁꯠ ꯍꯥꯏꯕꯗꯤ ꯁꯥꯁꯤꯡ ꯑꯃꯁꯨꯡ ꯃꯤꯑꯣꯏꯕꯗ ꯆꯪꯈꯤꯕ ꯃꯇꯝꯗ ꯈꯣꯡꯂꯩ ꯊꯨꯅ ꯏꯝꯃ꯭ꯌꯨꯟ ꯔꯦꯁꯄꯣꯟꯁ ꯇꯧꯕ ꯉꯝꯗꯕꯅ ꯑꯅꯧꯕ ꯍꯣꯁꯠꯁꯤꯡ ꯑꯗꯨꯕꯨ ꯁꯤꯍꯟꯕꯒꯤ ꯆꯥꯡ ꯋꯥꯡꯍꯜꯂꯤ꯫ ꯃꯃꯥꯡꯗ ꯊꯦꯡꯅꯈꯤꯕ ꯁꯦꯚꯦꯔꯦ acute ꯔꯦꯁꯄꯤꯔꯥꯇꯣꯔꯌ ꯁꯌꯅꯗꯔꯣꯃꯦ, SARS-CoV-2 ꯚꯤꯔꯨꯁ ꯅ ꯃꯥꯂꯦꯝꯗ ꯃꯤꯑꯣꯏ 3.5 ꯃꯤꯂꯤꯌꯟ ꯅꯥꯍꯟꯗꯨꯅ ꯃꯤꯑꯣꯏ 7% ꯃꯨꯛ ꯁꯤꯍꯟꯈꯤ꯫ Middle East ꯔꯦꯁꯄꯤꯔꯥꯇꯣꯔꯌ ꯁꯌꯅꯗꯔꯣꯃꯦ ꯁꯝꯅ MERS-CoV ꯍꯥꯏꯅ ꯈꯪꯅꯔꯤꯕ ꯑꯁꯤꯅꯁꯨ ꯀꯨꯝꯖꯥ 2012 ꯗ ꯆꯥꯎꯔꯥꯛꯅ ꯃꯤꯑꯣꯏ 2500 ꯅꯥꯍꯟꯗꯨꯅ ꯑꯅꯥꯕ ꯃꯤꯑꯣꯏ ꯑꯍꯨꯝꯒꯤ ꯃꯅꯨꯡꯗ ꯃꯤꯑꯣꯏ ꯑꯃꯃꯝꯒꯤ ꯆꯥꯡꯗ ꯁꯤꯍꯟꯈꯤ꯫ ꯍꯧꯖꯤꯛ ꯐꯥꯎꯕꯗ ꯂꯥꯏꯅꯥꯁꯤꯡ ꯑꯁꯤꯗꯒꯤ ꯉꯥꯛꯊꯣꯛꯅꯕ ꯚꯦꯛꯁꯤꯟ ꯂꯩꯇ꯭ꯔꯤ꯫ MERS-CoV ꯑꯁꯤ ꯁꯦꯛꯄꯤꯗꯒꯤ ꯁꯟꯗꯣꯔꯀꯇꯨꯅ ꯎꯠ (Camel) siZdsu intermediate host AoISi>
ꯀꯨꯝꯖꯥ 2017 ꯇ ꯎꯅꯤꯚꯦꯔꯁꯤꯇꯌ of ꯈꯥꯁꯀꯥꯇꯆꯍꯦꯋꯥꯅ ꯒꯤ ꯔꯤꯁꯥꯔꯁ ꯑꯃꯅ ꯁꯦꯛꯄꯤꯗ ꯌꯥꯎꯕ ꯀꯣꯔꯣꯅꯥꯚꯥꯏꯔꯁꯁꯤꯡ ꯑꯁꯤꯅ ꯍꯣꯁꯠ ꯑꯣꯏꯔꯤꯕ ꯁꯦꯛꯄꯗ ꯌꯥꯝꯗ꯭ꯔꯕꯗ ꯊꯥ ꯃꯔꯤ ꯍꯤꯕꯦꯔꯅꯥꯇꯦ ꯇꯧꯗꯨꯅ ꯂꯩꯕ ꯉꯝꯃꯤ ꯍꯥꯏꯅ ꯐꯣꯡꯗꯣꯛꯈꯤ꯫ ꯁꯦꯛꯄꯤꯁꯤꯡꯅ ꯏꯟꯐ꯭ꯂꯦꯃꯦꯁꯟꯒ ꯃꯔꯤ ꯂꯩꯅꯕ ꯄ꯭ꯔꯣꯇꯤꯟꯁꯤꯡ ꯄꯨꯊꯣꯛꯇꯦ ꯅꯠꯇ꯭ꯔꯒ ꯃꯊꯧ ꯇꯧꯍꯟꯗꯦ꯫ ꯃꯁꯤꯒꯤ ꯃꯍꯨꯠꯇ ꯑꯇꯣꯞꯄ ꯁꯥꯁꯤꯡ ꯑꯃꯁꯨꯡ ꯃꯤꯑꯣꯏꯕꯗ ꯄꯥꯡꯊꯣꯛꯇꯕ ꯐꯪꯛꯁꯟ ꯑꯃꯅ ꯁꯦꯛꯄꯤꯁꯤꯡꯅ ꯃꯁꯥꯒꯤ ꯃꯍꯧꯁꯥꯒꯤ ꯑꯣꯏꯖꯕ ꯃꯑꯣꯡꯗ ꯚꯥꯏꯔꯁꯁꯤꯡꯕꯨ ꯉꯥꯛꯊꯣꯛꯆꯩ꯫ ꯃꯁꯤꯒ ꯏꯔꯣꯏꯅꯅ ꯚꯥꯏꯔꯁꯁꯤꯡꯅꯁꯨ ꯍꯣꯁꯠ ꯁꯦꯜꯒꯤ ꯃꯅꯨꯡꯗ ꯈꯣꯡꯂꯩ ꯊꯨꯅ mutation ꯊꯣꯛꯍꯟꯗꯨꯅ ꯍꯤꯡꯗꯨꯅ ꯂꯩꯅꯕ ꯑꯃꯗꯤ ꯃꯁꯤꯡ ꯌꯥꯝꯁꯠꯅꯕ ꯍꯣꯠꯅꯖꯩ꯫ ꯂꯥꯏꯅ ꯅꯠꯇ꯭ꯔꯒ ꯁꯇ꯭ꯔꯦꯁꯅ ꯃꯔꯝ ꯑꯣꯏꯗꯨꯅ ꯁꯦꯛꯄꯤ ꯑꯃꯁꯨꯡ ꯚꯥꯏꯔꯁꯀꯤ ꯃꯔꯛꯇ ꯂꯩꯅꯔꯤꯕ equilibrium ꯑꯁꯤ ꯀꯥꯏꯍꯟꯗ꯭ꯔꯃꯈꯩ ꯚꯥꯏꯔꯁꯅ ꯁꯦꯛꯄꯤꯁꯤꯡꯒꯤ ꯍꯛꯆꯥꯡꯗ ꯑꯃꯥꯡ-ꯑꯇꯥ ꯊꯣꯛꯍꯟꯗꯅ ꯂꯩ꯫ ꯁꯦꯛꯄꯤꯁꯤꯡ ꯑꯁꯤ ꯃꯈꯣꯏꯒꯤ ꯂꯩꯐꯝꯗ (ꯍꯥꯕꯤꯇꯥꯇ) ꯑꯌꯦꯠ-ꯑꯄꯟ ꯄꯤꯔꯛꯄ ꯃꯇꯝꯗ ꯁꯇ꯭ꯔꯦꯁ ꯂꯥꯛꯍꯜꯂꯤ꯫ ꯃꯁꯤꯅ ꯃꯔꯝ ꯑꯣꯏꯔꯒ ꯃꯈꯣꯏꯒꯤ ꯃꯇꯤꯟ (ꯁꯥꯂꯤꯚꯥ), ꯃꯌꯨꯡ (urine) ꯑꯃꯁꯨꯡ ꯑꯃꯥꯡꯕꯁꯤꯡ (faeces) ꯗ ꯚꯤꯔꯨꯁ ꯁꯤꯡ ꯑꯁꯤ ꯀꯥ ꯍꯦꯟꯅ ꯊꯥꯗꯣꯔꯛꯏ ꯑꯃꯁꯨꯡ ꯃꯤꯑꯣꯏꯕ ꯑꯃꯗꯤ ꯁꯥ-ꯉꯥꯁꯤꯡꯗ ꯚꯥꯏꯔꯦꯜ ꯏꯅꯐꯦꯛꯁꯟ ꯊꯣꯛꯂꯛꯅꯕꯒꯤ ꯃꯆꯥꯛ ꯑꯣꯏꯍꯜꯂꯤ꯫ ꯑꯗꯨꯕꯨ ꯁꯦꯛꯄꯤꯁꯤꯡ ꯑꯁꯤ ꯚꯥꯏꯔꯁ ꯃꯈꯜ ꯀꯌꯥꯒꯤ ꯌꯥꯎꯐꯝ (ꯍꯣꯁꯠ) ꯑꯣꯏꯖꯔꯕꯁꯨ ꯃꯤꯑꯣꯏꯕ ꯑꯩꯈꯣꯏꯒ ꯌꯥꯝꯅ ꯀꯥ ꯍꯦꯟꯅ ꯅꯛꯅꯕ ꯆꯨꯕꯁꯨ ꯅꯠꯇꯦ ꯑꯃꯁꯨꯡ ꯃꯤꯑꯣꯏꯕ ꯑꯩꯈꯣꯏꯗ ꯂꯥꯏꯅ ꯅꯥꯍꯟꯕ ꯌꯥꯕ ꯍ꯭ꯌꯨꯃꯦꯟ ꯚꯥꯏꯔꯁ ꯀꯌꯥ ꯌꯥꯎꯔꯝꯒꯅꯤ ꯍꯥꯏꯟ ꯈꯟꯕꯁꯨ ꯌꯥꯗꯦ꯫ ꯃꯇꯥꯡ ꯑꯁꯤꯗ ꯅꯩꯅꯖꯅꯤꯡꯂꯤꯕꯗꯤ ꯃꯇꯧ ꯀꯔꯝꯅ ꯁꯦꯛꯄꯤꯁꯤꯡꯒꯤ ꯏꯝꯃ꯭ꯌꯨꯟ ꯁꯤꯁꯇꯝꯅ ꯚꯥꯏꯔꯁꯁꯤꯡꯕꯨ ꯃꯥꯌꯣꯛꯅꯕꯒꯦ ꯍꯥꯏꯕꯗꯨꯅꯤ꯫ ꯁꯦꯛꯄꯤꯁꯤꯡꯒꯤ ꯒꯦꯅꯣꯃꯦ ꯁꯤꯉꯦ ꯑꯁꯤ ꯆꯥꯎꯔꯥꯛꯅ 2ꯘꯕ ꯃꯨꯛ ꯑꯣꯏ ꯑꯃꯁꯨꯡ ꯑꯇꯣꯞꯄ ꯄꯂꯥꯆꯦꯅꯇꯥꯂ ꯃꯥꯃꯃꯥꯂꯁ ꯁꯤꯡꯗꯒꯤ ꯍꯦꯟꯅ ꯄꯤꯛꯏ꯫ ꯁꯦꯛꯄꯤꯁꯤꯡꯒꯤ ꯏꯝꯃ꯭ꯌꯨꯅꯤꯇꯤꯒ ꯃꯔꯤ ꯂꯩꯅꯕ ꯑꯈꯟꯅꯕ ꯒꯦꯅꯦꯁ ꯑꯅꯤ-

(i) B-ꯆꯦꯂꯂ ꯒꯤꯁꯄꯦꯆꯤꯐꯤꯆ ꯑꯣꯏꯕ ꯆꯍꯦꯃꯣꯀꯤꯅꯦ ꯒꯤ ꯒꯦꯅꯦ cxCL13 ꯑꯃꯁꯨꯡ (i) asthma ꯂꯣꯏꯅꯕ NPSR1 AmsuZ INAVA gene siZni> INAVA gene Asi intestinal barrier integrity gi mtO tOI, haIbdi ꯏꯟꯇꯦꯁꯇꯥꯏꯟꯗ ꯃꯔꯨ ꯑꯣꯏꯕ ꯑꯥꯏꯑꯣꯟꯁ, ꯅ꯭ꯌꯨꯇ꯭ꯔꯤꯑꯦꯟꯠꯁ ꯑꯃꯁꯨꯡ ꯏꯁꯤꯡꯅꯆꯤꯡꯕꯁꯤꯡꯕꯨ ꯐꯥꯎꯗꯣꯛ-ꯐꯥꯎꯖꯤꯟ ꯇꯧꯍꯜꯂꯒ bacterial toxin ꯑꯃꯁꯨꯡ ꯂꯥꯏꯅ ꯄꯣꯛꯍꯟꯒꯗꯕ ꯃꯍꯤꯛ ꯃꯇꯥꯏꯁꯤꯡꯕꯨꯅ ꯊꯤꯡꯗꯨꯅ ꯊꯛꯆꯥꯡꯗ ꯆꯪꯍꯟꯗꯦ꯫ ꯍꯥꯏꯔꯤꯕ ꯖꯤꯟꯁꯤꯡ ꯑꯁꯤꯗ ꯑꯍꯣꯡꯕ ꯂꯩꯔꯛꯄꯅ ꯁꯦꯛꯄꯤꯁꯤꯡꯒꯤ ꯂꯥꯏꯅ ꯉꯥꯛꯊꯣꯛꯆꯅꯕꯒꯤ ꯊꯕꯛꯁꯤꯡꯗ ꯑꯍꯣꯡꯕ ꯂꯥꯛꯏ, ꯃꯇꯦꯡ ꯑꯣꯏ ꯍꯥꯏꯅꯑ. Benerjee ꯑꯃꯁꯨꯡ ꯃꯍꯥꯛꯀꯤ ꯀꯥꯡꯕꯨꯅ “Novel insights into immune ꯁꯌꯁꯇꯦꯃꯁ of ꯕꯥꯇꯁ” ꯍꯥꯏꯕ ꯑꯥꯔꯇꯤꯀꯜ ꯑꯁꯤꯗ ꯔꯤꯄꯣꯔꯠ ꯇꯧꯈꯤ꯫
ꯁꯦꯛꯄꯤꯁꯤꯡꯒꯤ ꯏꯝꯃ꯭ꯌꯨꯟ ꯁꯤꯁꯇꯝ ꯑꯃꯁꯨꯡ ꯃꯈꯣꯏꯒꯤ ꯆꯍꯤꯒ ꯃꯔꯤ ꯂꯩꯅꯕ ꯆꯥꯅꯗꯤꯗꯥꯇꯦ ꯒꯦꯅꯦꯁ 2,453 ꯒꯤ ꯃꯅꯨꯡꯗ ꯑꯅꯧꯕ ꯒꯦꯅꯦꯁ 10 (ꯇꯔꯥ) ꯁꯦꯛꯄꯤꯁꯤꯡꯒꯤ ꯏꯚꯣꯂꯨꯁꯟꯒꯤ ꯄꯣꯖꯤꯇꯤꯚ ꯁꯦꯂꯦꯛꯟꯗ ꯁꯔꯨꯛ ꯌꯥꯏ꯫ ꯃꯈꯣꯏꯁꯤꯡ ꯑꯁꯤꯒꯤ ꯃꯅꯨꯡꯗ ꯏꯜ1+ꯙꯑꯃꯨꯡ ꯏꯜ1B ꯒꯦꯅꯦꯁ ꯑꯅꯤ ꯑꯁꯤꯅ immune ꯁꯌꯁꯇꯦꯃ ꯔꯦꯒꯨꯂꯥꯇꯦ ꯇꯧꯕꯗ ꯑꯃꯁꯨꯡ ꯙꯟꯑ transcription ꯗ ꯆꯌꯇꯣꯀꯤꯅꯦ ꯄꯨꯊꯣꯛꯄꯗ ꯑꯃꯗꯤ ꯁꯦꯜꯁꯤꯡꯒꯤ ꯁꯔꯚꯥꯏꯚꯦꯜꯕꯨ ꯀꯟꯇ꯭ꯔꯣꯜ ꯇꯧꯕ nuclear ꯐꯥꯆꯇꯣꯔ ꯀꯥꯄꯄꯥ B ꯁꯝꯅ NF-RB ꯍꯥꯏꯅ ꯈꯪꯅꯕ ꯄꯔꯕꯣꯇꯤꯟ ꯀꯝꯄ꯭ꯂꯦꯛꯁ ꯑꯁꯤꯕꯨꯁꯨ ꯑꯦꯛꯇꯤꯚꯦꯠ ꯇꯧꯕꯗ ꯁꯔꯨꯛ ꯌꯥꯏ꯫ ꯄꯣꯖꯤꯇꯤꯚ ꯁꯦꯂꯦꯛꯁꯟꯒꯤ ꯒꯦꯅꯦꯁ ꯁꯤꯡ ꯑꯁꯤꯅ ꯀꯣꯗ ꯇꯧꯕ ꯄ꯭ꯔꯣꯇꯤꯟꯁꯤꯡ residue ꯁꯤꯡꯗ substitution ꯊꯣꯛꯄꯅ ꯄ꯭ꯔꯣꯇꯤꯟꯁꯤꯡꯒꯤ ꯃꯊꯧꯗ ꯑꯍꯣꯡꯕ ꯄꯨꯔꯛꯏ꯫ Substitituion ꯑꯁꯤ ꯂꯤꯒꯥꯅꯗ ꯁꯤꯡꯒꯤ ꯅꯞꯐꯝ ꯖꯌꯥꯒꯤ ꯃꯅꯨꯡ ꯑꯃꯁꯨꯡ ꯃꯅꯥꯛ ꯅꯛꯄ ꯖꯒꯥꯁꯤꯡꯗꯁꯨ ꯊꯣꯛꯏ꯫ ꯍꯥꯏꯔꯤꯕ ꯆꯥꯅꯗꯤꯗꯥꯇꯦ ꯒꯦꯅꯦꯁ ꯁꯤꯡ ꯑꯁꯤ ꯅꯩꯅꯕꯗꯒꯤ ꯁꯦꯛꯄꯤꯁꯤꯡ ꯑꯁꯤꯒꯤ immunomodulatory ꯃꯦꯆꯍꯥꯅꯤꯁꯃ ꯁꯤꯡ ꯑꯁꯤ ꯑꯍꯣꯡꯕ ꯂꯥꯛꯈꯤ ꯍꯥꯏꯕ ꯈꯪꯕ ꯉꯝꯈꯤ꯫ ꯃꯁꯤꯅ ꯃꯔꯝ ꯑꯣꯏꯔꯒ ꯃꯃꯥꯒꯤ ꯈꯣꯝꯂꯥꯡ ꯊꯛꯄ ꯖꯤꯕꯁꯤꯡꯗ ꯅꯥꯒꯟꯕ ꯂꯥꯏꯅꯥ ꯀꯌꯥꯁꯤꯡ ꯁꯦꯛꯄꯤꯁꯤꯡꯅ ꯉꯥꯛꯊꯣꯛꯄ
ꯉꯝꯖꯈꯤ꯫ ꯘꯦꯅꯣꯃꯦ ꯋꯤꯗꯦ screening ꯇꯧꯗꯨꯅ ꯃꯥꯡꯈ꯭ꯔꯕ ꯒꯦꯅꯦꯁ ꯀꯌꯥ ꯊꯤꯗꯣꯛꯄꯗꯨ ꯒꯦꯅꯦꯁ ꯇꯔꯥꯗꯤ ꯇꯣꯉꯥꯟ-ꯇꯣꯉꯥꯟꯕ ꯁꯦꯛꯄꯤꯁꯤꯡꯗꯒꯤ ꯃꯥꯡꯈꯤꯕ ꯊꯦꯡꯅꯔꯝꯃꯤ꯫ ꯘꯦꯅꯦꯁ ꯇꯔꯥ ꯑꯁꯤꯒꯤ ꯃꯅꯨꯡꯗ ꯒꯦꯅꯦꯁ ꯑꯅꯤ - LRRC70 ꯑꯃꯁꯨꯡ ꯏꯜ36ꯘ ꯗꯤ ꯏꯝꯃ꯭ꯌꯨꯟ ꯁꯤꯁꯇꯝꯒ ꯃꯔꯤ ꯂꯩꯅꯕ ꯑꯣꯏ꯫ NI-KB ꯁꯤꯒꯅꯥꯂꯂꯤꯅꯒ ꯗ ꯁꯔꯨꯛ ꯌꯥꯕ ꯒꯦꯅꯦꯁ ꯀꯌꯥ ꯃꯥꯡꯈꯤꯕ ꯑꯗꯨꯒ ꯑꯅꯧꯕ ꯒꯦꯅꯦꯁ ꯀꯌꯥꯕꯨꯅ ꯊꯦꯡꯅꯔꯛꯄ ꯑꯁꯤꯅ NI-KB ꯒꯤ ꯁꯤꯒꯅꯥꯂꯂꯤꯅꯒ ꯑꯒꯤ ꯍꯣꯡꯍꯜꯂꯤ ꯑꯃꯁꯨꯡ ꯃꯁꯤꯒꯤꯅ ꯁꯦꯛꯄꯤꯁꯤꯡꯕꯒꯤ ꯏꯝꯃ꯭ꯌꯨꯟ ꯁꯤꯁꯇꯝꯒ ꯃꯔꯤ ꯂꯩꯅꯕ ꯑꯦꯗꯥꯞꯇꯦꯁꯟꯗ ꯃꯇꯦꯡ ꯑꯣꯏꯈꯤ꯫ ꯃꯈꯥ ꯇꯥꯅ ꯙꯥꯚꯤꯗ ꯓꯦꯕꯕ ꯑꯃꯁꯨꯡ ꯃꯍꯥꯛꯀꯤ ꯀꯥꯡꯕꯨꯅ ꯒꯦꯅꯦ ꯒꯤ ꯐꯦꯃꯤꯂꯤꯁꯤꯡꯒꯤ ꯁꯥꯏꯖ ꯈꯦꯟꯅꯕ ꯌꯦꯡꯕꯗꯁꯨ ꯐꯦꯃꯤꯂꯤ 35ꯗꯤ ꯁꯥꯏꯖ ꯄꯤꯛꯁꯤꯟꯕ ꯑꯃꯁꯨꯡ ꯆꯥꯎꯊꯣꯛꯄ ꯊꯦꯡꯅꯈꯤ꯫ ꯃꯁꯤꯒꯤ ꯃꯅꯨꯡꯗ APOBEC ꯒꯦꯅꯦ ꯐꯥꯃꯤꯂꯌ ꯑꯁꯤꯒꯤ APOBEC3 ꯂꯣꯆꯨꯁ ꯇ ꯆꯥꯎꯊꯣꯛꯄ ꯊꯦꯡꯅꯈꯤ꯫ APOBEC3 ꯑꯁꯤ ꯚꯥꯏꯔꯁ ꯏꯟꯐꯦꯛꯁꯟꯅ ꯃꯔꯝ ꯑꯣꯏꯗꯨꯅ HoKhNb interferon signalling n mHO paZHoKhNb DNA AmsuZ RNA editing gi enzyme siZbu ꯀꯣꯗ ꯇꯧꯕ ꯖꯤꯟꯅꯤ ꯑꯃꯁꯨꯡ APOBEC3 ꯅ ꯖꯨꯃꯄꯤꯅꯒ ꯒꯦꯅꯦꯁ ꯍꯥꯏꯅꯁꯨ ꯈꯪꯅꯔꯤꯕ ꯇꯔꯥꯅꯁꯄꯣꯁꯣꯅ ꯒꯨꯝꯅꯁꯨ ꯃꯊꯧ ꯇꯧꯏ꯫ ꯏꯝꯃ꯭ꯌꯨꯟ ꯁꯤꯁꯇꯝꯒ ꯃꯔꯤ ꯂꯩꯅꯕ ꯖꯤꯟ ꯈꯔ ꯃꯥꯡꯈꯤꯒ ꯂꯣꯏꯅꯅ APOBEC3 ꯅ ꯁꯦꯛꯄꯤꯁꯤꯡꯒꯤ ꯁꯨꯔꯣꯜ ꯄꯔꯤꯡꯗ (lineages) ꯒꯦꯅꯦ expansion ꯀꯌꯥꯔꯛ ꯊꯣꯛꯈꯤꯕꯅ ꯚꯤꯔꯥꯂ ꯔꯦꯁꯇꯔꯤꯆꯇꯤꯅꯒ ꯒꯦꯅꯦꯁ ꯑꯣꯏꯅ ꯚꯥꯏꯔꯦꯜ ꯏꯟꯐꯦꯛꯁꯟꯁꯤꯡꯗꯒꯤ ꯊꯤꯡꯕ ꯉꯝꯈꯤ꯫

vaIrs cxSrBb hosTki jinoMsiZd endogenous viral elements (EVEs) haIn vaIrsiZ ꯌꯥꯎꯔꯝꯃꯤ ꯍꯥꯏꯕꯒꯤ ꯈꯨꯗꯝ ꯆꯥꯡꯗꯝ ꯌꯥꯎꯏ꯫ ꯀꯣꯔꯣꯅꯥꯒꯨꯃꯕ ꯔꯦꯇ꯭ꯔꯣꯚꯥꯏꯔꯦꯜꯒꯤ ꯄ꯭ꯔꯣꯇꯤꯟꯁꯤꯡꯕꯨ ꯀꯣꯗ ꯇꯧꯕ ꯖꯤꯟꯁꯤꯡꯒꯤ ꯃꯔꯛꯇ ꯑꯜꯐꯥ, ꯕꯤꯇꯥ ꯑꯃꯁꯨꯡ ꯒꯝꯃꯥ ꯔꯦꯇ꯭ꯔꯣꯚꯥꯏꯔꯁꯁꯤꯡꯒꯤ EVEs ꯌꯥꯎꯏ꯫ Phylogenetic analysis ꯇꯧꯗꯨꯅ ꯅꯩꯅꯕ ꯑꯃꯗꯁꯨ ꯂꯦꯅꯇꯤꯚꯤꯔꯨꯁ ꯀ ꯃꯥꯟꯅꯕ ꯑꯇꯦꯟꯕ -ꯒꯥꯒ- ꯃꯥꯟꯕ ꯐ꯭ꯔꯦꯒꯃꯦꯟꯠꯁꯤꯡ ꯀꯌꯥ ꯊꯦꯡꯅꯈꯤ ꯑꯃꯁꯨꯡ ꯅꯣꯅ-ꯔꯦꯇꯔꯣꯚꯤꯔꯥꯂ ꯐꯥꯃꯤꯂꯌ ꯒꯤ EVEs - ꯈꯨꯗꯝ ꯑꯣꯏꯅ, Parvoviridae, Adenoviridae ꯑꯃꯁꯨꯡ Birnaviridae ꯁꯤꯡ ꯑꯁꯤ ꯊꯦꯡꯅꯈꯤ꯫ ꯄꯨꯝꯅꯃꯛꯁꯤꯡ ꯑꯁꯤꯗꯒꯤ ꯁꯦꯛꯄꯤꯁꯤꯡꯗ ꯇꯣꯉꯥꯟ-ꯇꯣꯉꯥꯟꯕ ꯃꯈꯜꯒꯤ endogenous ꯚꯤꯔꯨꯁ ꯀꯌꯥ ꯌꯥꯎꯏ ꯑꯃꯁꯨꯡ ꯃꯁꯤꯅ ꯁꯦꯛꯄꯤꯁꯤꯡꯗ ꯃꯃꯥꯡꯉꯩꯙꯒꯤ ꯚꯥꯏꯔꯦꯜ ꯏꯟꯐꯦꯛꯁꯟ ꯀꯌꯥ ꯊꯣꯛꯈ꯭ꯔꯦ ꯍꯥꯏꯕ ꯈꯪꯉꯤ꯫
ꯑꯇꯣꯞꯄ ꯑꯃꯗ ꯙꯨꯀꯦ-Nus Medical School ꯒꯤ ꯔꯤꯁꯥꯔꯁ ꯀꯥꯡꯕꯨ ꯑꯃꯅ ꯃꯇꯧ ꯀꯔꯝꯅ ꯁꯦꯛꯄꯤꯁꯤꯡꯅ ꯂꯥꯏꯅ ꯑꯃꯠꯇ ꯅꯥꯗꯅ ꯃꯍꯤꯛ (Pathogen) ꯑꯁꯤ ꯁꯥꯒꯣꯟꯅꯗꯨꯅ ꯂꯩꯔꯤꯕꯅꯣ ꯍꯥꯏꯅ ꯊꯤꯖꯤꯟꯈꯤ꯫ ꯊꯤꯖꯤꯟꯕ ꯑꯗꯨꯗ ꯁꯦꯛꯄꯤꯅ ꯃꯈꯣꯏꯒꯤ ꯍꯥꯛꯆꯥꯡꯗ inflammation reaction ꯍꯥꯏꯕꯗꯤ ꯍꯛꯆꯥꯡꯒꯤ ꯇꯤꯁ꯭ꯌꯨꯁꯤꯡꯗ ꯑꯁꯣꯛ-ꯑꯄꯟ ꯌꯥꯎꯔꯛꯄ ꯃꯇꯝꯗ ꯐꯣꯡꯗꯣꯔꯛꯄ ꯍꯛꯆꯥꯡꯒꯤ ꯑꯁꯣꯛꯄ ꯖꯒꯥꯗ ꯅꯥꯕ, ꯄꯣꯝꯈꯠꯂꯛꯄ ꯑꯃꯁꯨꯡ ꯉꯥꯡꯁꯤꯜꯂꯛꯄꯒꯤ ꯊꯧꯑꯣꯡ ꯑꯁꯤ ꯀꯟꯇ꯭ꯔꯣꯜ ꯇꯧꯕ ꯉꯝꯃꯤ ꯍꯥꯏꯕ ꯈꯪꯈꯤ꯫ ꯏꯅꯐꯂꯥꯃꯃꯥꯇꯣꯔꯌ ꯔꯦꯁꯄꯣꯅꯁꯦ ꯀꯥ ꯍꯦꯟꯅ ꯇꯧꯍꯟꯗꯕꯅ seKpisiZn pathological damage kyasiZdgisu zaKHoKcE> AESoI miAoIbd inflammatory ꯔꯦꯁꯄꯣꯅꯁꯦ ꯅ ꯏꯟꯐꯦꯛꯁꯟ ꯊꯣꯀꯄꯁꯤꯡꯕꯨ ꯃꯥꯌꯣꯛꯅꯕꯗ ꯃꯇꯦꯡ ꯑꯣꯏꯖꯔꯕꯁꯨ ꯀꯥ ꯍꯦꯟꯅ ꯔꯦꯁꯄꯣꯟꯁ ꯑꯁꯤ ꯆꯠꯊꯔꯕꯗꯤ ꯃꯍꯤꯛ ꯑꯗꯨꯅ ꯍꯛꯆꯥꯡꯗ ꯊꯣꯛꯍꯟꯕ ꯑꯃꯥꯡꯕ ꯑꯗꯨꯗ ꯍꯦꯅꯅ ꯃꯇꯦꯡ ꯑꯣꯏ ꯑꯃꯁꯨꯡ ꯑꯍꯜ ꯑꯣꯏꯁꯤꯜꯂꯛꯄ ꯑꯃꯗꯤ ꯆꯍꯤꯒ ꯃꯔꯤ ꯂꯩꯅꯕ ꯂꯥꯏꯅꯥ ꯀꯌꯥ ꯑꯣꯏꯍꯜꯂꯛꯏ꯫ ꯊꯛꯆꯥꯡꯒꯤ ꯁꯇ꯭ꯔꯦꯁ ꯑꯃꯁꯨꯡ ꯏꯟꯐꯦꯛꯁꯟ ꯊꯣꯛꯄꯗ ꯏꯟꯐ꯭ꯂꯦꯃꯦꯇꯔꯤ ꯔꯦꯁꯄꯣꯟꯁ ꯆꯠꯊꯅꯕꯒꯤ ꯄꯥꯎ ꯄꯤꯔꯤꯕ ꯏꯟꯐ꯭ꯂꯦꯃꯦꯁꯟ ꯁꯦꯟꯁꯔ ꯑꯣꯏꯅ ꯃꯊꯧ ꯇꯧꯔꯤꯕ NLRP3 ꯍꯥꯏꯔꯤꯕ ꯄ꯭ꯔꯣꯇꯤꯟ ꯑꯁꯤ ꯃꯤꯑꯣꯏꯕ, ꯎꯆꯤ ꯑꯃꯁꯨꯡ ꯁꯦꯛꯄꯤꯗ ꯆꯥꯡꯗꯃꯟꯕ ꯃꯇꯝꯗ ꯁꯦꯛꯄꯤꯁꯤꯡꯗ ꯚꯤꯔꯥꯂ load ꯆꯥꯡ ꯋꯥꯡꯅ ꯌꯥꯎꯔꯕꯁꯨ ꯄ꯭ꯔꯣꯇꯤꯟ ꯑꯁꯤ ꯃꯊꯧ ꯏꯇꯧ ꯇꯧꯗꯦ꯫ ꯑꯈꯨꯝꯅ ꯁꯦꯛꯄꯤꯅ ꯁꯇ꯭ꯔꯦꯁ ꯑꯃꯁꯨꯡ ꯏꯟꯐꯦꯛꯁꯟꯅ ꯊꯣꯛꯍꯟꯕ ꯏꯟꯐ꯭ꯂꯦꯃꯦꯁꯟꯕꯨ ꯅꯝꯊꯗꯨꯅ ꯊꯝꯕ ꯉꯝꯕꯒꯤ ꯃꯊꯧꯅ ꯃꯒꯨꯟ ꯑꯁꯤꯅ ꯃꯈꯣꯏꯒꯤ ꯃꯄꯨꯟꯁꯤ ꯁꯥꯡꯍꯟꯕ ꯑꯁꯃꯨꯡ ꯚꯤꯔꯥꯂ reservoir ꯑꯃ ꯑꯣꯏꯅ ꯂꯦꯕꯒꯤ ꯃꯔꯨ ꯑꯣꯏꯕ ꯃꯦꯀꯥꯅꯤꯖꯝ ꯑꯣꯏ꯫ ꯇꯣꯉꯥꯟ ꯇꯣꯉꯥꯟꯕ RNA ꯚꯥꯏꯔꯁ ꯃꯈꯜ ꯑꯍꯨꯝ - nfluenza ꯑ ꯚꯤꯔꯨꯁ, MERS Coronavirus ꯑꯃꯁꯨꯡ Melaka ꯚꯤꯔꯨꯁ ꯁꯤꯡꯒꯤ ꯃꯥꯌꯣꯛꯇ ꯃꯤꯑꯣꯏꯕ, ꯎꯆꯤ ꯑꯃꯁꯨꯡ ꯁꯦꯛꯄꯤꯒꯤ ꯏꯝꯃ꯭ꯌꯨꯟ ꯔꯦꯁꯄꯣꯟꯁꯤꯡ ꯆꯥꯡꯗꯝꯅꯕꯗꯨ NLRP3 ꯅ ꯆꯠꯊꯍꯟꯕ ꯏꯟꯐ꯭ꯂꯦꯃꯦꯁꯟ ꯑꯁꯤ ꯁꯦꯛꯄꯤꯁꯤꯡꯗ ꯆꯥꯡ ꯌꯥꯝꯅ ꯅꯦꯝꯃꯤ꯫ ꯃꯈꯥ ꯇꯥꯅ, NLRP3 protein ꯁꯤꯡꯕꯨ ꯁꯦꯝꯕꯗ ꯃꯔꯨ ꯑꯣꯏꯕ ꯁ꯭ꯇꯩꯞ ꯑꯃ ꯑꯣꯏꯔꯤꯕ transcriptional ꯄꯔꯤꯃꯤꯅꯒ ꯑꯁꯤꯁꯨ ꯁꯦꯀꯄꯤꯁꯤꯡꯗ ꯌꯥꯝꯅ ꯍꯟꯊꯩ ꯑꯃꯁꯨꯡ ꯃꯈꯣꯏꯗ ꯌꯥꯎꯔꯤꯕ ꯇꯣꯞ ꯇꯣꯞꯄ NLRP3 ꯃꯈꯜꯒꯤ ꯄ꯭ꯔꯣꯇꯤꯟꯁꯤꯡ ꯑꯁꯤ ꯑꯇꯣꯞꯄ ꯖꯤꯕꯁꯤꯡꯒ ꯌꯦꯡꯅꯕꯗ ꯀꯌꯥ ꯑꯦꯛꯇꯤꯚ ꯑꯣꯏꯗꯦ꯫ ꯃꯁꯤꯅ NLRP3 ꯒꯤ ꯃꯈꯜꯁꯤꯡ ꯑꯁꯤ ꯁꯦꯛꯄꯤꯁꯤꯡꯒꯤ evolution ꯗ ꯒꯦꯅꯦꯇꯤꯆꯥꯂꯂꯌ ꯆꯣꯅꯁꯦꯔꯚꯦ ꯑꯣꯏ ꯍꯥꯏꯕꯗꯨ ꯇꯥꯛꯏ꯫ ꯙꯨꯀꯦ-NUS Medical School ꯒꯤ ꯀꯥꯡꯕꯨꯅ ꯃꯈꯥ ꯇꯥꯅ ꯁꯦꯛꯄ ꯇꯥꯔ ꯑꯃꯁꯨꯡ ꯁꯦꯛꯄꯤ ꯅꯠꯇꯕ mammalian ꯇꯔꯥꯇꯔꯦꯠꯇ NLRP3 ꯒꯤ ꯖꯤꯟ ꯁꯤꯀ꯭ꯋꯦꯟꯁꯁꯤꯡ ꯆꯥꯡꯗꯝꯅꯕꯗꯁꯨ ꯏꯟꯐ꯭ꯂꯦꯃꯦꯇꯔꯤ ꯔꯦꯁꯄꯣꯟꯁꯀꯤ ꯃꯊꯧ ꯇꯧꯕ ꯄ꯭ꯔꯣꯇꯤꯟ ꯑꯁꯤ ꯁꯦꯛꯄꯤꯁꯤꯡꯒꯤ ꯑꯈꯟꯅꯕ ꯑꯗꯥꯞꯇꯦꯁꯟꯅꯤ ꯍꯥꯏꯕ ꯈꯪꯕ ꯉꯝꯈꯤ꯫
ꯑꯁꯨꯝꯅ ꯚꯥꯏꯔꯁ ꯏꯟꯐꯦꯛꯁꯟꯅ ꯃꯔꯝ ꯑꯣꯏꯗꯨꯅ ꯁꯥ-ꯉꯥ ꯑꯃꯁꯨꯡ ꯃꯤꯑꯣꯏꯕꯗ ꯑꯔꯨꯕ ꯂꯥꯏꯅ ꯀꯌꯥ ꯑꯣꯏꯍꯜꯂꯛꯄ ꯌꯥꯕ ꯏꯟꯐ꯭ꯂꯦꯃꯦꯇꯔꯤ ꯔꯦꯁꯄꯣꯟꯁ ꯑꯁꯤ ꯁꯦꯛꯄꯤꯁꯤꯡꯗꯗꯤ ꯏꯟꯐꯦꯛꯁꯟ ꯑꯁꯤꯕꯨ ꯃꯥꯌꯣꯛꯅꯕꯒꯤ ꯃꯍꯨꯠꯇ ꯈꯥꯡꯕ ꯉꯝꯕꯒꯤ ꯄꯥꯝꯕꯩꯔꯣꯝꯗ ꯑꯣꯏꯅ ꯍꯦꯟꯒꯠꯍꯟꯈꯤ꯫ ꯃꯁꯤꯗꯒꯤ ꯈꯪꯖꯤꯟꯕ ꯌꯥꯔꯤꯕꯁꯤ ꯃꯤꯑꯣꯏꯕꯗ ꯏꯟꯐꯦꯛꯁꯟ ꯊꯣꯛꯄꯒꯗꯤ ꯑꯣꯏꯔꯛꯄ ꯂꯥꯏꯅꯥ ꯀꯌꯥꯅ ꯑꯦꯟꯇꯤ-ꯄꯦꯊꯣꯖꯦꯟ ꯑꯣꯏ ꯂꯥꯌꯦꯡ ꯄꯊꯥꯞ ꯑꯗꯣꯝꯗꯒꯤ, ꯁꯦꯛꯄꯤꯗ ꯎꯕ ꯐꯪꯂꯤꯕ ꯑꯁꯨꯝꯅ, ꯍꯦꯟꯅ ꯄꯥꯛꯊꯣꯛ-ꯆꯥꯎꯊꯣꯛꯅ ꯑꯦꯟꯇꯤ-ꯗꯤꯖꯤꯖ ꯑꯣꯏꯕ ꯑꯦꯄ꯭ꯔꯣꯆ ꯂꯣꯝꯗ ꯆꯪꯁꯤꯟꯕꯒꯤ ꯇꯉꯥꯏꯐꯗꯕ ꯑꯁꯤꯅꯤ꯫

ꯍꯣꯝ ꯑꯥꯏꯁꯣꯂꯦꯁꯟ ꯇꯧꯅꯕꯒꯤ ꯀꯥꯡꯂꯣꯟ
ꯀꯣꯚꯤꯗ-19ꯒꯤ ꯂꯥꯏꯆꯠ ꯂꯥꯛꯁꯤꯟꯅꯕ ꯍꯣꯠꯅꯕꯗ ꯈꯨꯔꯧ ꯊꯥꯡꯒꯗꯕ ꯊꯧꯔꯥꯡ
ꯃꯥꯂꯦꯝꯒꯤ ꯃꯐꯝ ꯁꯤꯟꯕ ꯊꯨꯡꯅ ꯁꯟꯗꯣꯔꯛꯂꯤꯕ ꯀꯣꯚꯤꯗ-19ꯒꯤ ꯂꯥꯏꯆꯠ
ꯂꯥꯛꯁꯤꯟꯅꯕꯒꯤ ꯃꯇꯥꯗ ꯇꯣꯉꯥꯟ-ꯇꯣꯉꯥꯟꯕ ꯀꯥꯡꯂꯣꯟ ꯁꯦꯝꯗꯨꯅ ꯊꯧꯔꯥꯡ ꯀꯌꯥ ꯂꯧꯈꯠꯅꯔꯤ꯫ ꯌꯨꯝꯂꯩ-ꯀꯩꯔꯩ ꯑꯃꯁꯨꯡ ꯄꯨꯟꯁꯤ ꯃꯍꯤꯡ ꯈꯦꯟꯅꯕꯒꯤ ꯃꯇꯨꯡ ꯏꯟꯅ ꯇꯣꯉꯥꯟ-ꯇꯣꯉꯥꯟꯕ ꯂꯩꯕꯥꯛꯁꯤꯡꯗ ꯃꯁꯥ-ꯃꯁꯥꯒꯤ ꯃꯔꯩꯕꯥꯛ-ꯃꯔꯝꯗꯝꯒ ꯆꯥꯟꯅꯒꯗꯕ ꯃꯑꯣꯡꯗ ꯂꯣꯛꯗꯥꯎꯟ ꯑꯟꯂꯣꯛ ꯑꯃꯗꯤ ꯀꯣꯚꯤꯗ-19ꯒꯤ ꯄꯦꯁꯦꯟꯠꯁꯤꯡ ꯂꯥꯌꯦꯡꯅꯕꯒꯤ ꯁ꯭ꯇꯦꯟꯗꯔꯗ ꯑꯣꯄꯔꯦꯇꯤꯡ ꯄ꯭ꯔꯣꯁꯤꯖꯔ (ꯑꯦꯁ ꯑꯣ ꯄꯤ) ꯁꯦꯝꯅꯔꯤ꯫ ꯃꯐꯝ ꯑꯃꯒ ꯑꯇꯣꯞꯄ ꯃꯐꯝ ꯑꯃꯒ ꯍꯤꯔꯝ ꯈꯨꯗꯤꯡꯃꯛꯇ ꯌꯥꯝꯅ ꯆꯥꯎꯅ ꯈꯦꯟꯅꯕ ꯃꯔꯝꯅ ꯇꯣꯉꯥꯟ-ꯇꯣꯉꯥꯟꯕ ꯆꯠꯅ-ꯀꯥꯡꯂꯣꯟꯁꯤꯡ ꯁꯦꯝꯅꯕꯅꯤ꯫ ꯈꯨꯗꯣꯡꯊꯤꯅꯤꯡꯉꯥꯏ ꯑꯣꯏꯔꯕ ꯂꯥꯏꯅꯥ-ꯂꯥꯏꯆꯠ ꯑꯁꯤ ꯃꯄꯨꯡ ꯐꯥꯅ ꯂꯥꯛꯁꯤꯟꯅꯕꯒꯤꯗꯃꯛ ꯑꯅꯥꯕ ꯃꯤꯑꯣꯏꯁꯤꯡ ꯇꯣꯈꯥꯏꯅ ꯅꯥꯏꯇꯣꯝ ꯊꯝꯂꯒ ꯂꯥꯌꯦꯡꯕ ꯑꯃꯁꯨꯡ ꯃꯇꯝ ꯈꯔꯒꯤ ꯑꯣꯏꯅ ꯃꯤꯑꯣꯏꯕ ꯃꯁꯦꯜ ꯑꯃꯒ-ꯑꯃꯒ ꯂꯥꯞꯊꯣꯛꯅꯅ ꯂꯩꯕ ꯌꯥꯝꯅꯃꯛ ꯇꯉꯥꯏꯐꯗꯦ ꯍꯥꯏꯕ
ꯄꯨꯝꯅꯃꯛꯅ ꯈꯪꯅꯔꯕ ꯋꯥꯐꯝꯅꯤ꯫ ꯑꯗꯨꯕꯨ ꯃꯤꯑꯣꯏꯕꯅ ꯃꯇꯝ ꯆꯨꯞꯄ ꯈꯟꯅꯥꯏꯗꯒꯤ ꯂꯥꯞꯊꯣꯛꯂꯒ ꯅꯥꯏꯇꯣꯝ ꯂꯩꯕ ꯉꯝꯗꯦ꯫ ꯉꯥꯏꯍꯥꯛ ꯂꯩꯇꯅ ꯑꯃꯒ-ꯑꯃꯒ ꯇꯣꯏꯅ ꯎꯅꯗꯨꯅ ꯑꯋꯥ-ꯅꯨꯡꯉꯥꯏ ꯋꯥꯔꯤ ꯁꯥꯅꯕ ꯑꯃꯗꯤ ꯂꯩꯇ-ꯂꯥꯏꯔ ꯇꯥꯊꯣꯛ-ꯇꯥꯁꯤꯟ ꯇꯧꯕ ꯍꯥꯏꯕꯁꯤ ꯃꯤꯑꯣꯏꯕꯒꯤ ꯍꯧꯅꯁꯥꯅꯤ꯫ ꯃꯔꯨꯞ-ꯃꯄꯥꯡ, ꯀꯩꯔꯣꯏ-ꯂꯩꯀꯥꯏ ꯑꯃꯁꯨꯡ ꯃꯔꯤ-ꯃꯇꯥꯒꯤ ꯋꯥꯐꯝ ꯇꯣꯉꯥꯟꯅ ꯊꯝꯈ꯭ꯔꯒ ꯏꯃꯨꯡ ꯑꯃꯠꯇꯗ ꯄꯨꯟꯅ ꯂꯩꯃꯤꯟꯅꯔꯤꯕ ꯃꯤꯑꯣꯏꯁꯤꯡꯒꯤ ꯃꯔꯛꯇ ꯁꯛꯎꯗꯕ ꯄꯜ ꯑꯃ ꯈꯥꯒꯠꯇꯨꯅ ꯊꯝꯂꯒ ꯊꯥꯞꯅ-ꯊꯥꯞꯅ ꯂꯩꯅꯕ, ꯆꯥꯃꯤꯟ-ꯊꯛꯃꯤꯟꯅꯗꯕ ꯑꯃꯁꯨꯡ ꯑꯃꯅ ꯄꯥꯏꯔꯨꯕ ꯄꯣꯠꯇ ꯑꯃꯅ ꯄꯥꯏꯗꯕ ꯍꯥꯏꯕꯁꯤ ꯄꯥꯛ-ꯍꯦꯛ ꯑꯣꯏꯊꯣꯛꯄ ꯌꯥꯒꯅꯤ ꯅꯤꯡꯗꯦ꯫ ꯃꯄꯥꯟꯒꯤ ꯆꯥꯎꯈꯠꯂꯕ ꯂꯩꯕꯥꯛꯁꯤꯡꯗ
ꯏꯔꯥꯏ-ꯂꯥꯏꯅ ꯆꯠꯅꯍꯟꯕ ꯌꯥꯔꯒꯁꯨ ꯃꯅꯤꯄꯨꯔꯒꯤ ꯌꯨꯝꯂꯩ-ꯀꯩꯔꯩ ꯑꯁꯤ ꯌꯦꯡꯂꯨꯔꯒꯗꯤ ꯂꯝꯗꯝꯁꯤꯗ ꯀꯥꯡꯂꯣꯟ ꯑꯁꯤ ꯆꯠꯅꯍꯟꯕꯗ ꯈꯔ ꯋꯥꯅ ꯊꯣꯛꯀꯅꯤ꯫ ꯂꯩꯉꯥꯛꯅ ꯍꯣꯝ ꯑꯥꯏꯁꯣꯂꯦꯁꯟꯒꯤ ꯃꯇꯥꯡꯗ ꯁꯦꯝꯂꯛꯂꯤꯕ ꯀꯥꯡꯂꯣꯟ ꯑꯁꯤ ꯀꯗꯥꯏ ꯐꯥꯎꯕ ꯃꯥꯏ
ꯄꯥꯛꯅ ꯆꯠꯅꯍꯟꯕ ꯌꯥꯒꯗꯒꯦ ꯍꯥꯏꯕꯗꯨ ꯑꯃꯨꯛꯇꯪ ꯀꯨꯞꯅ ꯈꯟꯊꯗꯨꯅ ꯌꯦꯡꯃꯤꯟꯅꯁꯤ꯫ ꯍꯧꯈꯤꯕ ꯑꯣꯒꯁꯠ 15ꯗ ꯃꯅꯤꯄꯔꯨ ꯂꯩꯉꯥꯛꯀꯤ ꯍꯦꯜꯊ ꯗꯤꯄꯥꯔꯠꯃꯦꯟꯠꯅ ꯊꯣꯛꯈꯤꯕ ꯅꯣꯇꯤꯐꯤꯀꯦꯁꯟ ꯑꯃꯅ ꯍꯥꯏꯈꯤ, ꯂꯝꯗꯝ ꯑꯈꯤꯒꯤ ꯀꯣꯚꯤꯗ-19 ꯄꯣꯖꯤꯇꯤꯚ ꯑꯣꯏꯔꯕ ꯃꯤꯑꯣꯏ ꯑꯌꯥꯝꯕ ꯂꯥꯏꯑꯣꯡ ꯎꯠꯊꯣꯔꯛꯇꯕ ꯅꯠꯇ꯭ꯔꯒ ꯂꯥꯏꯑꯣꯡ ꯈꯔꯈꯛ ꯎꯠꯊꯣꯔꯛꯄ ꯃꯔꯝꯅ ꯍꯣꯁꯄꯤꯇꯥꯜ ꯑꯃꯁꯨꯡ ꯀꯣꯚꯤꯗ ꯀꯦꯌꯔ ꯁꯦꯟꯇꯔꯁꯤꯡꯗ ꯊꯝꯂꯒ ꯂꯥꯌꯦꯡꯕ ꯃꯊꯧ ꯇꯥꯗꯦ꯫
ꯂꯥꯏꯑꯣꯡ ꯎꯠꯊꯣꯔꯛꯇꯕ ꯅꯠꯇ꯭ꯔꯒ ꯂꯥꯏꯑꯣꯡ ꯈꯔꯈꯛ ꯎꯠꯊꯣꯔꯛꯄ ꯃꯤꯑꯣꯏ ꯄꯨꯝꯅꯃꯛ ꯍꯦꯜꯊꯀꯦꯌꯔ ꯋꯔꯀꯔꯁꯤꯡꯒꯤ ꯃꯤꯠꯌꯦꯡꯈꯥꯗ ꯃꯁꯥ-ꯃꯁꯥꯒꯤ ꯃꯌꯨꯝꯗ ꯍꯣꯝ ꯑꯥꯏꯁꯣꯂꯦꯁꯟ ꯇꯧꯗꯨꯅ ꯊꯝꯂꯒꯅꯤ꯫ ꯏꯟꯗꯤꯌꯥꯒꯤ ꯁ꯭ꯇꯦꯠ ꯑꯃꯁꯨꯡ ꯌꯨꯅꯤꯌꯟ ꯇꯦꯔꯤꯇꯣꯔꯤ ꯑꯌꯥꯝꯕꯗ ꯊꯧꯗꯥꯡ ꯑꯁꯤ ꯃꯥꯡꯖꯧꯅꯅ ꯂꯧꯈꯠꯄ ꯍꯧꯔꯦ ꯍꯥꯏꯅ ꯄꯜꯂꯗꯨꯅ ꯅꯣꯇꯤꯐꯤꯀꯦꯁꯟ ꯑꯗꯨꯅ ꯍꯥꯏ, ꯑꯅꯥ-ꯂꯥꯌꯦꯡꯁꯪꯁꯤꯡ ꯑꯁꯤ ꯍꯦꯜꯊꯀꯦꯌꯔ ꯄ꯭ꯔꯣꯐꯦꯁꯟ ꯄꯨꯝꯅꯃꯛ ꯀꯥ-ꯍꯦꯟꯅ ꯐꯤꯚꯝ ꯁꯣꯛꯆꯤꯜꯂꯕ ꯀꯣꯚꯤꯗ-19ꯒꯤ ꯄꯦꯁꯦꯟꯠꯁꯤꯡ ꯑꯃꯗꯤ ꯑꯇꯩ ꯑꯔꯨꯕ ꯂꯥꯏꯅꯥꯅ ꯅꯥꯔꯕ ꯃꯤꯑꯣꯏꯁꯤꯡꯗ ꯃꯤꯠꯌꯦꯡ ꯆꯪꯕ ꯉꯝꯅꯕꯒꯤ ꯄꯥꯟꯗꯝꯗ ꯊꯧꯔꯥꯡ ꯑꯁꯤ ꯂꯧꯈꯠꯂꯛꯄꯅꯤ꯫ ꯍꯣꯝ ꯑꯥꯏꯁꯣꯂꯦꯁꯟ ꯇꯧꯔꯤꯕꯁꯤꯡꯗ
ꯐꯤꯡꯒꯔꯇꯤꯞ ꯄꯜꯁ ꯑꯣꯛꯁꯤꯃꯤꯇꯔ ꯑꯃꯁꯨꯡ ꯇ꯭ꯔꯤꯄꯜ ꯂꯦꯌꯔ ꯃꯥꯁꯛ ꯄꯤꯒꯅꯤ ꯍꯥꯏꯔꯤ꯫ ꯀꯔꯝ-ꯀꯔꯝꯕ ꯀꯣꯚꯤꯗ-19ꯒꯤ ꯄꯦꯁꯦꯟꯠꯁꯤꯡ ꯍꯣꯝ ꯑꯥꯏꯁꯣꯂꯦꯁꯟ
ꯇꯧꯒꯗꯒꯦ ꯍꯥꯏꯕꯒꯤ ꯃꯇꯥꯡꯗ ꯅꯣꯇꯤꯐꯤꯀꯦꯁꯟ ꯑꯗꯨꯅ ꯍꯥꯏ, ꯗꯤꯁꯇ꯭ꯔꯤꯛꯠ ꯈꯨꯗꯤꯡꯃꯛꯇ ꯃꯔꯤ ꯂꯩꯅꯕ ꯆꯤꯐ ꯃꯦꯗꯤꯀꯦꯜ ꯑꯣꯐꯤꯁꯔ (ꯁꯤ ꯑꯦꯝ ꯑꯣ) ꯁꯤꯡꯅ
ꯃꯦꯗꯤꯀꯦꯜ ꯇꯤꯝ ꯑꯃ ꯁꯦꯝꯂꯒ ꯀꯔꯝ-ꯀꯔꯝꯕ ꯀꯣꯚꯤꯗ-19ꯒꯤ ꯄꯦꯁꯦꯟꯠꯁꯤꯡ
ꯍꯣꯝ ꯑꯥꯏꯁꯣꯂꯦꯁꯟ ꯇꯧꯒꯗꯒꯦ ꯍꯥꯏꯕꯗꯨ ꯂꯦꯞꯊꯣꯛꯀꯅꯤ꯫ ꯍꯣꯝ ꯑꯥꯏꯁꯣꯂꯦꯁꯟ ꯇꯧꯅꯕꯒꯤ ꯃꯇꯥꯡꯗ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯏꯍꯥꯟ ꯍꯥꯟꯅ ꯈꯟꯅꯒꯗꯕ ꯃꯤꯑꯣꯏꯁꯤꯡꯗꯤ ꯍꯣꯝ ꯑꯥꯏꯁꯣꯂꯦꯁꯟ ꯇꯧꯒꯗꯒꯦ ꯍꯥꯏꯕꯗꯨ ꯂꯦꯞꯊꯣꯛꯀꯅꯤ꯫ ꯍꯣꯝ ꯑꯥꯏꯁꯣꯂꯦꯁꯟ ꯇꯧꯅꯕꯒꯤ ꯃꯇꯥꯗ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯏꯍꯥꯟ ꯍꯥꯟꯅ ꯈꯟꯅꯒꯗꯕ ꯃꯤꯑꯣꯏꯁꯤꯡꯗꯤ ꯂꯥꯏꯑꯣꯡ ꯎꯠꯊꯣꯔꯛꯇ꯭ꯔꯤꯕ ꯃꯁꯥꯒꯤ ꯆꯍꯤ 10 ꯁꯨꯗ꯭ꯔꯤꯕ ꯑꯉꯥꯁꯤꯡ; ꯑꯉꯥꯡ ꯎꯅꯒꯗꯕ ꯃꯇꯝ ꯅꯛꯁꯤꯜꯂꯛꯂꯕ ꯃꯤꯔꯣꯟꯕꯤ ꯅꯨꯄꯤꯁꯤꯡ; ꯂꯣꯏꯅꯅ ꯑꯇꯣꯞꯄ ꯑꯔꯨꯕ ꯂꯥꯏꯅꯥ (ꯀꯣ-ꯃꯣꯔꯕꯤꯗ) ꯂꯩꯇꯕ ꯑꯃꯁꯨꯡ ꯂꯥꯏꯑꯣꯡ ꯈꯔꯈꯛ ꯎꯠꯊꯣꯔꯛꯄꯁꯤꯡꯅꯤ꯫ ꯍꯣꯝ ꯑꯥꯏꯁꯣꯂꯦꯁꯟ ꯇꯧꯕ ꯃꯤꯑꯣꯏ ꯈꯨꯗꯤꯡꯃꯛ ꯀꯥ ꯑꯃꯗ ꯇꯣꯉꯥꯟꯅ ꯊꯝꯕꯒ ꯂꯣꯏꯅꯅ ꯈꯣꯡ ꯍꯥꯝꯐꯝ, ꯃꯄꯥꯟ ꯊꯣꯛꯐꯝ ꯑꯃꯁꯨꯡ ꯏꯔꯨꯖ-ꯃꯥꯏꯊꯖꯐꯝ ꯇꯣꯉꯥꯟꯅ ꯂꯩꯍꯟꯒꯗꯕꯅꯤ꯫ ꯍꯥꯏꯔꯤꯕ ꯃꯤꯑꯣꯏ ꯑꯗꯨ ꯀꯔꯤꯒꯨꯝꯕ ꯐꯤꯚꯝ ꯑꯃꯠꯇꯗ ꯏꯃꯨꯡꯒꯤ ꯑꯇꯩ ꯑꯇꯣꯞꯄ ꯃꯤꯑꯣꯏꯁꯤꯡꯒ ꯅꯛꯁꯤꯟꯅꯔꯣꯏꯗꯕꯅꯤ ꯑꯃꯁꯨꯡ ꯃꯁꯥꯒꯤ ꯀꯥ ꯃꯅꯨꯡꯗꯒꯤ ꯃꯄꯥꯟ ꯊꯣꯛꯂꯛꯂꯣꯏꯗꯕꯅꯤ ꯍꯥꯏꯅꯁꯨ ꯅꯣꯇꯤꯐꯤꯀꯦꯁꯟ ꯑꯗꯨꯅ ꯐꯣꯡꯗꯣꯛꯂꯤ꯫ ꯃꯇꯥꯡ Zsid ꯈꯟꯅꯅꯤꯡꯉꯥꯏ ꯑꯣꯏꯔꯤꯕꯁꯤ ꯃꯅꯤꯄꯨꯔꯗ ꯀꯥ ꯈꯨꯗꯤꯡꯒꯤ ꯕꯥꯊꯔꯨꯝ ꯑꯦꯇꯦꯆ ꯇꯧꯕ ꯑꯃꯁꯨꯡ ꯏꯃꯨꯡ ꯑꯃꯠꯇꯗ ꯂꯩꯃꯤꯟꯅꯔꯤꯕ ꯃꯤꯑꯣꯏꯁꯤꯡ ꯑꯃꯒ-ꯑꯃꯒ ꯅꯛꯁꯤꯟꯅꯗ꯭ꯔꯕꯁꯨ ꯅꯨꯡꯉꯥꯏꯅ ꯑꯗꯨꯝꯃꯛ ꯍꯤꯡꯕ ꯉꯝꯒꯗꯕ ꯃꯑꯣꯡꯗ ꯁꯥꯕ ꯌꯨꯝ ꯀꯌꯥ ꯂꯩꯔꯕꯒꯦ ꯍꯥꯏꯕꯁꯤꯅꯤ꯫ ꯃꯄꯥꯟꯒꯤ ꯏꯅꯥꯛꯈꯨꯟꯕ ꯃꯐꯝꯗ ꯆꯠꯅꯒꯗꯕ ꯀꯥꯡꯂꯣꯟ ꯑꯃ ꯃꯅꯤꯄꯨꯔꯗ ꯆꯠꯅꯍꯜꯂꯛꯄꯒꯤ ꯊꯧꯑꯣꯡ ꯑꯁꯤꯅ ꯃꯔꯝ ꯑꯣꯏꯔꯒ ꯀꯣꯚꯤꯗ-19ꯒꯤ ꯀꯦꯁ ꯃꯁꯤꯡ ꯅꯣꯡꯃ-ꯅꯣꯡꯃꯒꯤ ꯍꯦꯟꯒꯠꯍꯜꯂꯛꯄ ꯌꯥꯏ꯫ ꯂꯥꯏꯑꯣꯡ
ꯎꯠꯊꯣꯔꯛꯇ꯭ꯔꯤꯕ ꯃꯤꯑꯣꯏꯁꯤꯡꯅꯁꯨ ꯑꯇꯩ ꯑꯇꯣꯞꯄ ꯃꯤꯑꯣꯏ ꯀꯌꯥꯗ ꯀꯣꯚꯤꯗ-19ꯒꯤ ꯂꯥꯏꯅꯥ ꯂꯥꯏꯆꯠ ꯁꯟꯗꯣꯛꯏ ꯍꯥꯏꯕ ꯋꯔꯜꯗ ꯍꯦꯜꯊ ꯑꯣꯔꯒꯅꯥꯏꯖꯦꯁꯟꯒꯤ ꯋꯥꯐꯝ
ꯅꯤꯡꯁꯤꯡꯕ ꯆꯨꯝꯃꯤ꯫

ꯅꯟ-ꯀꯣꯚꯤꯗ ꯍꯣꯁꯄꯤꯇꯥꯜ ꯑꯃ ꯍꯥꯡꯗꯣꯛꯄꯤꯌꯨ
ꯑꯦꯗꯤꯇꯔꯗ ꯊꯥꯔꯛꯄ ꯆꯤꯊꯤ...

ꯏꯀꯥꯏ ꯈꯨꯝꯅꯖꯔꯤꯕ ꯑꯦꯗꯤꯇꯔ,
ꯆꯥꯏꯅꯥꯗꯒꯤ ꯍꯧꯔꯛꯈꯤꯕ ꯂꯥꯌꯦꯡꯅꯕ ꯍꯤꯗꯥꯛ ꯂꯦꯇ꯭ꯔꯤꯕ ꯀꯣꯚꯤꯗ-19ꯅ ꯃꯥꯂꯦꯝ ꯄꯨꯝꯕꯗ ꯊꯗꯔ ꯋꯔꯜꯗ ꯋꯥꯔꯗ ꯆꯞ ꯃꯥꯟꯅꯚ ꯐꯤꯚꯝꯗ ꯂꯥꯛꯄꯅ ꯃꯅꯤꯄꯨꯔꯗꯁꯨ ꯀꯣꯚꯤꯗ-19ꯅ ꯇꯞꯅ ꯇꯞꯅ ꯆꯥꯁꯤꯜꯂꯛꯇꯨꯅ ꯍꯧꯖꯤꯛꯇꯤ ꯂꯣꯀꯜ ꯇ꯭ꯔꯥꯟꯁꯃꯤꯁꯟꯗꯒꯤ ꯀꯝꯃ꯭ꯌꯨꯅꯇꯤꯇꯤ ꯇ꯭ꯔꯥꯟꯁꯃꯤꯁꯟ ꯐꯥꯎꯕꯒꯤ ꯊꯥꯛ ꯌꯧꯁꯤꯜꯂꯛꯇꯨꯅ ꯂꯩꯉꯥꯛꯅ ꯂꯣꯀꯗꯥꯎꯟ, ꯀꯔꯐꯤꯌꯨ ꯊꯝꯖꯤꯟꯗꯨꯅ ꯊꯥ 5/6 ꯍꯦꯟꯅ ꯍꯣꯠꯅꯔꯕꯁꯨ ꯑꯐꯕ ꯐꯜꯗꯤ ꯐꯪꯗ꯭ꯔꯤ꯫ ꯀꯣꯚꯤꯗ-19ꯅ ꯃꯥꯂꯦꯝꯗ ꯃꯤꯑꯣꯏ ꯀ꯭ꯔꯣꯔ 1 ꯍꯦꯟꯅ ꯁꯤꯍꯟꯈ꯭ꯔꯦ, ꯀꯌꯥ ꯑꯃꯅ ꯍꯣꯁꯄꯤꯇꯥꯜꯗ ꯑꯌꯣ ꯅꯥꯍꯦꯗꯨꯅ ꯁꯤꯕ ꯉꯥꯏꯔꯤ꯫ ꯂꯨꯔꯤꯕꯗꯤ ꯀꯣꯚꯤꯗ-19 ꯑꯁꯤ ꯃꯤ ꯑꯃꯗꯒꯤ ꯑꯃꯗ ꯌꯥꯝꯅ ꯂꯥꯏꯅ ꯁꯟꯗꯣꯛꯄ ꯉꯝꯕꯒ ꯂꯣꯏꯅꯅ ꯃꯁꯤꯕꯨ ꯐꯍꯟꯅꯕꯒꯤ ꯍꯤꯗꯥꯛ ꯂꯩꯇ꯭ꯔꯤꯕꯅ ꯃꯥꯂꯦꯝꯒꯤ ꯂꯩꯕꯥꯛ ꯀꯌꯥꯅ ꯀ꯭ꯂꯤꯅꯤꯀꯦꯜ ꯇ꯭ꯔꯥꯍꯜ ꯆꯠꯊꯗꯨꯅ ꯃꯍꯤꯛ ꯑꯁꯤꯕꯨ ꯍꯥꯠꯅꯅꯕ ꯍꯣꯠꯅꯔꯤ꯫ ꯃꯅꯤꯄꯨꯔꯒꯨꯝꯕ ꯃꯤꯁꯤꯡ ꯌꯥꯝꯖꯗ꯭ꯔꯕ ꯑꯄꯤꯛ ꯁ꯭ꯇꯦꯠ ꯑꯃꯗꯗꯤ ꯂꯥꯏꯅ ꯑꯁꯤꯅ ꯂꯥꯟꯗꯥꯔꯛꯄꯁꯤ ꯑꯗꯨꯛꯀꯤ ꯃꯇꯤꯛ ꯀꯤꯅꯤꯡꯉꯥꯏꯅꯤ꯫ ꯑꯗꯨꯅꯕꯨ ꯂꯩꯉꯥꯛꯅꯁꯨ ꯑꯉꯝꯕꯤ ꯊꯥꯛꯇ ꯒꯚꯔꯟꯃꯦꯟꯠ ꯍꯣꯁꯄꯤꯇꯥꯜ ꯈꯨꯗꯤꯡꯃꯛ ꯑꯃꯗꯤ ꯑꯇꯣꯞꯄ ꯃꯐꯝ ꯀꯌꯥꯗꯁꯨ ꯏꯟꯁꯇꯤꯇ꯭ꯌꯨꯁꯅꯦꯜ ꯀ꯭ꯋꯥꯔꯟꯇꯤꯟ ꯁꯦꯟꯇꯔ ꯑꯣꯟꯊꯣꯛꯇꯨꯅ ꯀꯣꯚꯤꯗ ꯑꯅꯥꯕꯁꯤꯡꯒꯤꯗꯃꯛꯇ ꯀꯟꯅ ꯍꯣꯠꯅꯔꯤ꯫ ꯅꯥꯀꯜ ꯑꯃꯔꯣꯝꯗ ꯅꯟ-ꯀꯣꯚꯤꯗꯀꯤ ꯑꯅꯥꯕ
ꯀꯌꯥꯁꯨ ꯂꯥꯌꯦꯡꯅꯕ ꯄ꯭ꯔꯥꯏꯚꯦꯠ ꯍꯣꯁꯄꯤꯇꯥꯜ ꯑꯃꯗꯤ ꯒꯚꯔꯟꯃꯦꯟꯠ ꯍꯣꯁꯄꯤꯇꯥꯜꯁꯤꯡꯗ ꯆꯠꯂꯕꯁꯨ ꯀꯣꯚꯤꯗ ꯂꯥꯏꯅ ꯂꯩꯕ ꯑꯣꯏꯅ ꯎꯕꯤꯗꯨꯅ ꯊꯑꯣꯏꯅ ꯂꯥꯌꯦꯡꯕꯤꯌꯨ ꯌꯥꯗ꯭ꯔꯦ꯫
ꯆꯍꯤ ꯇꯪꯈꯥꯏ ꯍꯦꯟꯅ ꯂꯣꯛꯗꯥꯎꯟ, ꯀꯔꯐꯤꯌꯨ ꯊꯝꯂꯛꯄꯅ ꯂꯩꯉꯥꯛꯀꯤ ꯀꯔꯝꯆꯥꯔꯤ ꯑꯣꯏꯍꯧꯗꯕ, ꯁꯨꯔꯒ ꯆꯥꯖꯕ ꯏꯃꯨꯡ, ꯍꯥꯇꯦ-hae ꯀꯔꯕꯥꯔ ꯃꯆꯥ ꯇꯧꯖꯗꯨꯅ ꯍꯤꯡꯖꯕ ꯏꯃꯨꯡ ꯑꯃꯗꯨ ꯑꯇꯩ ꯁꯤꯟꯐꯝ ꯀꯌꯥꯗ ꯋꯥꯅ ꯍꯣꯠꯅꯗꯔꯤꯕ ꯏꯃꯨꯡꯁꯤꯡꯗ ꯑꯅꯥ-ꯑꯌꯦꯛ ꯌꯥꯎꯔꯛꯄꯗ ꯄ꯭ꯔꯥꯏꯚꯦꯠ ꯍꯣꯁꯄꯤꯇꯥꯜꯗ ꯂꯥꯌꯦꯡꯅꯕ ꯁꯦꯜ ꯂꯩꯇꯗꯨꯅ ꯒꯚꯔꯟꯃꯦꯟꯠ ꯍꯣꯁꯄꯤꯇꯥꯜ ꯆꯠꯀꯗꯕꯁꯨ ꯀꯣꯚꯤꯗꯀ ꯃꯔꯤ ꯂꯩꯅꯅ ꯊꯤꯡꯖꯤꯟꯈꯤꯗꯨꯅ ꯂꯥꯌꯦꯡꯐꯝ ꯈꯪꯗꯅ ꯁꯤꯈꯤꯕ ꯀꯌꯥ ꯌꯥꯎꯅꯔꯕꯅꯤ꯫ ꯈꯨꯗꯛꯀꯤ ꯑꯣꯏꯕ ꯑꯅꯥꯕꯁꯤꯡ ꯑꯦꯛꯁꯤꯗꯦꯟꯠ, ꯗꯦꯂꯤꯚꯔꯤ, ꯕꯤ ꯄꯤ ꯁꯇ꯭ꯔꯣꯛ, ꯍꯥꯔꯠ ꯗꯤꯖꯤꯖ, ꯗꯥꯏꯕꯦꯇꯤꯛ, ꯀꯦꯟꯁꯔ, ꯗꯥꯏꯔꯤꯌꯥ, ꯀꯤꯗꯅꯤ ꯗꯥꯏꯂꯥꯏꯁꯤꯁ... ꯅꯆꯤꯡꯕ ꯑꯅꯥꯕꯁꯤꯡ ꯃꯇꯝ ꯆꯥꯅ ꯂꯥꯌꯦꯡꯕꯤꯗꯕꯗꯤ ꯁꯤꯕ ꯃꯁꯤꯡꯅ ꯀꯣꯚꯤꯗꯅ ꯁꯤꯕꯗꯒꯤ
ꯌꯥꯝꯅ ꯍꯦꯜꯂꯛꯇꯨꯅ ꯈꯔꯃꯈꯩ ꯁꯟꯕ ꯌꯥꯕ ꯑꯅꯥꯕ ꯀꯌꯥ ꯂꯝꯈꯥꯡꯗ ꯄꯨꯟꯁꯤ ꯄꯤꯈꯝꯟꯔꯦ꯫ ꯃꯁꯤꯗ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯌꯥꯝꯅ ꯂꯥꯏꯕꯛ ꯊꯤꯔꯤꯕꯗꯤ ꯃꯊꯛꯀꯤ ꯁꯤꯟꯐꯝꯁꯤꯡꯗ ꯂꯩꯔꯤꯕ ꯏꯃꯨꯡꯗꯗꯤ ꯑꯅꯥꯕꯒꯤꯕꯨ ꯍꯣꯠꯅꯒꯗ꯭ꯔꯥ, ꯆꯥꯟꯅꯕꯒꯤꯕꯨ ꯍꯣꯠꯅꯒꯗ꯭ꯔꯥ, ꯃꯆꯥ-ꯃꯁꯨꯁꯤꯡꯒꯤꯕꯨ ꯍꯣꯠꯅꯒꯗ꯭ꯔꯥ, ꯃꯤꯋꯥ ꯃꯩꯁꯥꯒꯤꯕꯨ ꯈꯥꯡꯒꯗ꯭ꯔꯥ ꯈꯟꯕꯗ ꯋꯥꯈꯜ ꯂꯥꯏꯅ ꯂꯩꯅꯔꯦ, ꯏꯃꯨꯡ ꯃꯍꯤ ꯂꯥꯡꯅꯔꯦ, ꯂꯥꯏꯔꯕꯗ ꯂꯥꯏ ꯆꯪꯂꯣ꯫ ꯇꯥꯟꯐꯝꯁꯤꯗ ꯂꯦꯉꯥꯛꯅ ꯅꯟ-ꯀꯣꯚꯤꯗꯀꯤ ꯑꯅꯥꯕꯁꯤꯡꯒꯤꯗꯃꯛ ꯈꯜꯂꯕ ꯂꯩꯇ-ꯂꯥꯏꯔ ꯀꯌꯥꯒꯤ ꯑꯅꯥꯕꯁꯤꯡꯅ ꯂꯥꯌꯦꯡꯐꯝ ꯈꯪꯗꯅ ꯃꯅꯨꯡ ꯃꯇꯝ ꯆꯥꯗꯅ ꯂꯩꯈꯤꯗ꯭ꯔꯁꯤꯡꯗꯨꯅ ꯄꯥꯔꯥ ꯑꯃ ꯑꯣꯏꯍꯧꯔꯒ ꯑꯊꯨꯕꯗ ꯔꯤꯝꯁ ꯅꯠꯇ꯭ꯔꯒ ꯖꯦꯅꯤꯝꯁꯇ ꯅꯟ-ꯀꯣꯚꯤꯗꯀꯤ ꯍꯣꯁꯄꯤꯇꯥꯜ ꯑꯣꯏꯅ ꯊꯝꯕꯤꯗꯨꯅ ꯃꯤꯆꯝ ꯃꯤꯌꯥꯝꯅ ꯊꯦꯡꯅꯔꯤꯕ ꯈꯨꯗꯣꯡꯆꯥꯗꯕꯁꯤꯡꯁꯤ ꯀꯣꯛꯍꯟꯗꯨꯅ ꯊꯧꯁꯤꯜ ꯍꯩꯕ ꯂꯩꯉꯥꯛ ꯑꯃ ꯂꯩꯔꯤ ꯍꯥꯏꯕꯗꯨ ꯈꯪꯍꯜꯂꯨ꯫
ꯑꯗꯣꯝꯒꯤ- ꯌꯨꯝꯈꯥꯏꯕꯝ ꯏꯅꯥꯎꯆꯥ ꯂꯨꯋꯥꯡ
ꯇꯣꯞ ꯃꯈꯥ ꯂꯩꯀꯥꯏ, ꯏꯝꯐꯥꯜ ꯏꯁꯠ
ꯁꯥꯏꯟꯁꯀꯤ ꯈꯣꯡꯆꯠ
ꯀꯨꯟꯖꯣ ꯅꯥꯎꯔꯦꯝ
ꯃꯥꯂꯦꯝ ꯁꯤꯟꯕ ꯊꯨꯡꯅ ꯁꯟꯗꯣꯔꯛꯂꯤꯕ ꯀꯣꯚꯤꯗ-19 ꯂꯥꯏꯅꯥꯁꯤꯒꯤ ꯚꯦꯛꯁꯤꯟ ꯀꯌꯥꯃꯨꯛ ꯄꯨꯊꯣꯛꯅꯔꯛꯄꯒꯤ ꯃꯅꯨꯡꯗ ꯇꯔꯨꯛꯃꯨꯛꯇꯤ ꯀ꯭ꯂꯤꯅꯤꯀꯦꯜ ꯇ꯭ꯔꯥꯌꯜꯁꯤꯡꯗ ꯃꯥꯏ ꯄꯥꯛꯄ ꯌꯥꯕꯒꯤ ꯐꯤꯚꯝꯗ ꯂꯩꯔꯕꯅꯤ꯫ ꯑꯇꯣꯞꯄ ꯑꯃꯔꯣꯝꯗꯅ, ꯊꯤꯖꯤꯟ-ꯂꯨꯞ ꯀꯌꯥꯅ ꯁꯔꯁ-ꯀꯣꯚ-2 ꯃꯥꯏꯊꯤꯕ ꯄꯤꯅꯕꯒꯤꯗꯃꯛ ꯑꯦꯟꯇꯤꯚꯥꯏꯔꯦꯜꯁꯤꯡ ꯁꯦꯝꯒꯠꯄꯒꯤ ꯊꯕꯛ ꯀꯟꯅ ꯄꯥꯏꯈꯠꯅꯔꯛꯄꯒꯤ ꯄꯥꯎꯗꯝ ꯀꯌꯥꯁꯨ ꯂꯩꯔꯦ꯫ ꯆꯩꯔꯥꯛ ꯑꯁꯤꯗ, ꯌꯨꯅꯤꯚꯔꯁꯤꯇꯤ ꯑꯣꯐ ꯀꯥꯂꯤꯐꯣꯔꯅꯤꯌꯥ ꯁꯥꯟ ꯐ꯭ꯔꯥꯟꯁꯀꯤꯁꯀꯣ (ꯌꯨ ꯁꯤ ꯑꯦꯁ ꯑꯦꯐ) ꯀꯤ ꯊꯤꯖꯤꯟ-ꯂꯨꯞ ꯑꯃꯅ ꯅꯥꯇꯣꯟ ꯃꯅꯨꯡꯗ ꯁ꯭ꯄ꯭ꯔꯦ ꯑꯣꯏꯅ ꯀꯥꯞꯁꯤꯟꯕ ꯅꯠꯇ꯭ꯔꯒ ꯏꯟꯍꯦꯂꯔ ꯑꯣꯏꯅ ꯁꯤꯖꯤꯟꯅꯕ ꯌꯥꯕ, ‘ꯑꯦꯔꯣꯅꯥꯕꯁ’ ꯍꯥꯏꯅ ꯈꯪꯅꯕ ꯑꯦꯔꯣꯁꯣꯜ ꯄꯨꯊꯧꯔꯀꯄꯒꯤ ꯃꯇꯥꯡꯗ ꯄꯥꯎꯗꯝ ꯑꯃ ‘ꯄ꯭ꯔꯤꯄ꯭ꯔꯤꯟꯠ ꯁꯔꯚꯔ 'bioRxiv' ꯇ ꯐꯣꯉꯗꯣꯔꯛꯂꯤ꯫ ꯃꯈꯣꯏꯒꯤ ꯃꯣꯂꯤꯀ꯭ꯌꯨꯜ ꯑꯁꯤ ꯑꯦꯟꯖꯤꯅꯤꯌꯔꯤꯡꯒꯤ ꯄꯥꯝꯕꯩꯁꯤꯡꯅ ꯄꯨꯊꯣꯔꯛꯄ ꯈꯨꯠꯁꯦꯝꯈꯛꯇꯒꯤ ꯑꯣꯏꯕ ꯑꯃꯅꯤ꯫ ꯍꯧꯖꯤꯛ ꯐꯥꯎꯕꯗ ꯄꯨꯍꯣꯛꯅꯔꯛꯂꯤꯕ ꯁꯔꯁ ꯀꯣꯚ-2 ꯑꯦꯟꯇꯤꯚꯥꯏꯔꯦꯜꯁꯤꯡꯒꯤ ꯃꯅꯨꯡꯗ, ꯃꯁꯤꯅ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯃꯄꯥꯡꯒꯜ ꯀꯜꯂꯤ ꯍꯥꯏꯅ ꯀ꯭ꯂꯦꯏꯝ ꯇꯧꯔꯤ꯫
ꯊꯤꯖꯤꯟ-ꯂꯨꯞ ꯑꯁꯤꯅ ꯄꯨꯊꯣꯔꯛꯂꯤꯕ ‘ꯑꯦꯔꯣꯅꯥꯕꯁ’ ꯑꯁꯤ ꯅꯣꯡꯃꯗ ꯑꯃꯨꯛꯇꯪ ꯁꯤꯖꯤꯟꯅꯕꯗ, ꯁꯔꯁ-ꯀꯣꯚ-2 ꯚꯥꯏꯔꯁꯇꯒꯤ ꯃꯄꯨꯡ ꯐꯥꯅ ꯉꯥꯛꯊꯣꯛꯄ ꯉꯝꯕꯒꯤ ꯃꯒꯨꯟ ꯆꯦꯜꯂꯤ꯫ ꯃꯈꯣꯏꯅ ꯍꯧꯖꯤꯛ ꯀꯝꯃꯔꯁꯤꯑꯦꯜ ꯄꯥꯔꯠꯅꯔꯁꯤꯡ ꯊꯤꯗꯨꯅ ꯑꯦꯔꯣꯅꯥꯕꯁꯄꯨ ꯀ꯭ꯂꯤꯅꯤꯀꯦꯜ ꯇꯦꯁꯇꯤꯡ ꯇꯧꯕ ꯑꯃꯁꯨꯡ ꯀꯩꯊꯦꯜꯗ ꯐꯪꯍꯟꯅꯕꯒꯤ ꯃꯇꯥꯡꯗ ꯀꯨꯞꯅ ꯈꯟꯅꯔꯤ꯫ ꯇꯦꯁꯇꯤꯡ ꯑꯁꯤ ꯃꯥꯏ ꯄꯥꯛꯂꯕꯗꯤ, ꯃꯃꯜ ꯍꯣꯡꯅ, ꯑꯣꯕꯔ-ꯗ-ꯀꯥꯎꯟꯇꯔ (ꯗꯤꯀꯥꯟ ꯑꯃꯗ ꯍꯦꯛꯇ ꯌꯣꯟꯕ ꯌꯥꯕ/ꯗꯣꯛꯇꯔ ꯑꯃꯒꯤ ꯑꯌꯥꯕ ꯆꯦ ꯌꯥꯎꯗꯅ ꯂꯩꯕ ꯌꯥꯕ) ꯑꯣꯏꯅ ꯐꯪꯍꯟꯗꯨꯅ ꯀꯣꯚꯤꯗ-19ꯗꯤ ꯉꯥꯛꯊꯣꯛ ꯑꯃꯁꯨꯡ ꯂꯥꯌꯦꯡꯕ ꯌꯥꯍꯟꯒꯅꯤ ꯍꯥꯏꯔꯤ꯫ ꯑꯦꯔꯣꯅꯥꯕꯁ asi ꯍꯧꯖꯤꯛ ꯍꯦꯜꯊ ꯋꯔꯀꯔꯁꯤꯡꯅ ꯁꯤꯖꯤꯟꯅꯔꯤꯕ ꯄꯤ ꯄꯤ ꯏ (ꯄꯔꯁꯣꯅꯦꯜ ꯄ꯭ꯔꯣꯇꯦꯛꯇꯤꯚ ꯏꯀ꯭ꯋꯥꯏꯞꯃꯦꯟꯠ) ꯑꯁꯤꯗꯒꯤ ꯍꯦꯟꯅ ꯐꯕ ‘ꯃꯣꯂꯤꯀ꯭ꯌꯨꯂꯔ ꯄꯤ ꯄꯤ ꯏ’ ꯅꯤ ꯍꯥꯏꯅ ꯌꯨ ꯁꯤ ꯑꯦꯁ ꯑꯦꯐꯀꯤ ꯕꯥꯏꯑꯣꯀꯦꯃꯤꯁꯇ꯭ꯔꯤ ꯑꯃꯁꯨꯡ ꯕꯥꯏꯑꯣꯐꯤꯖꯤꯛꯁꯀꯤ ꯄ꯭ꯔꯣꯐꯦꯁꯔ, ꯄꯤꯇꯔ ꯋꯥꯜꯇꯔꯅ ꯁꯤꯡꯊꯥꯔꯤ꯫ ꯃꯇꯥꯡ ꯑꯁꯤꯗ ꯄꯟꯕ ꯌꯥꯕꯗꯤ, ꯍꯤꯗꯥꯛ ꯑꯃꯅ ꯑꯅꯥꯕ ꯃꯤꯁꯤꯡꯕ ꯀꯥꯟꯅꯕ ꯄꯤꯔꯕꯁꯨ, ꯑꯇꯣꯞꯄ ꯑꯅꯥꯕ ꯃꯤ ꯈꯔꯗꯗꯤ ꯀꯥꯟꯅꯗꯕ ꯌꯥꯏ, ꯍꯥꯏꯕꯗꯤ ꯔꯦꯁꯤꯁꯇꯦꯟꯠ ꯑꯣꯏꯕ ꯌꯥꯏ꯫ ꯑꯁꯨꯝꯅ ꯚꯦꯛꯁꯤꯟ ꯑꯃꯅ ꯃꯤꯄꯨꯝ ꯈꯨꯗꯤꯡꯃꯛꯇ ꯀꯥꯟꯅꯕ ꯄꯤꯕ ꯉꯝꯗꯕ ꯌꯥꯏ꯫ ꯁꯔꯁ-ꯀꯣꯚ-2 ꯚꯦꯛꯁꯤꯟꯁꯤꯡꯅ ꯀꯥꯟꯅꯍꯟꯕ ꯉꯝꯗ꯭ꯔꯕ ꯅꯠꯇ꯭ꯔꯒ ꯚꯦꯛꯁꯤꯟꯁꯤꯡꯗꯨꯕꯨ ꯁꯤꯖꯤꯟꯅꯕꯒꯤ ꯄꯥꯝꯕꯩ ꯂꯩꯖꯗ꯭ꯔꯕꯁꯤꯡꯗꯁꯨ ꯑꯦꯔꯣꯅꯥꯕꯁꯅ ꯃꯇꯝ ꯄꯨꯝꯕꯒꯤ ꯑꯣꯏꯅ ꯀꯣꯚꯤꯗ-19ꯗꯒꯤ ꯉꯥꯛꯊꯣꯛꯄ ꯉꯝꯒꯅꯤ ꯍꯥꯏꯅ ꯃꯍꯥꯛꯅ ꯃꯈꯥ ꯇꯥꯅ ꯐꯣꯡꯗꯣꯛꯂꯤ꯫
ꯑꯦꯔꯣꯅꯥꯕꯁꯁꯤꯡꯁꯤ ꯑꯦꯟꯖꯤꯅꯤꯌꯔꯤꯡꯅ ꯃꯄꯨꯡ ꯐꯥꯅ ꯂꯦꯕꯇ ꯁꯦꯝꯒꯠꯈꯤꯕ ꯑꯣꯏꯔꯕꯁꯨ, ꯂꯥꯃꯥ, ꯎꯠ ꯑꯃꯁꯨꯡ ꯃꯈꯣꯏꯒ ꯅꯛꯅꯕ ꯁꯥꯁꯤꯡꯗ ꯃꯍꯧꯁꯥꯟ ꯌꯥꯎꯖꯔꯛꯂꯕ ꯑꯦꯟꯇꯤꯕꯣꯗꯤ-ꯃꯥꯟꯕ ꯄ꯭ꯔꯣꯇꯤꯟꯁꯤꯡ ꯑꯣꯏꯔꯤꯕ, ꯅꯥꯅꯣꯕꯣꯗꯤꯁꯤꯡꯅ ꯏꯊꯤꯜ ꯄꯤꯈꯤ꯫ ꯃꯤꯑꯣꯏꯕꯒꯤ ꯏꯝꯃ꯭ꯌꯨꯟ ꯁꯤꯁꯇꯝꯗ ꯐꯪꯂꯤꯕ ꯑꯦꯟꯇꯤꯕꯣꯗꯤꯁꯤꯡꯒ ꯌꯥꯝꯅ ꯃꯥꯟꯅꯕ ꯃꯑꯣꯡꯗ ꯃꯈꯣꯏꯅ ꯃꯊꯧ ꯇꯧꯏ; ꯑꯗꯨꯕꯨ ꯅꯥꯅꯣꯕꯣꯗꯤꯁꯤꯡꯅ ꯁꯔꯁ-ꯀꯣꯚ-2ꯒꯤ ꯃꯥꯌꯣꯛꯇ ꯂꯥꯟꯊꯦꯡꯅꯕ ꯉꯝꯕꯒꯤ ꯈꯨꯗꯣꯡꯆꯥꯕ ꯀꯌꯥꯃꯨꯛ ꯂꯩ ꯍꯥꯏꯅ ꯊꯤꯖꯤꯟꯕꯁꯤꯗ ꯁꯔꯨꯛ ꯌꯥꯈꯤꯕ ꯐꯥꯔꯃꯥꯁꯤꯌꯨꯇꯤꯀꯦꯜ ꯀꯦꯃꯤꯁꯇ꯭ꯔꯤꯒꯤ ꯑꯦꯁꯤꯁꯇꯦꯟꯠ ꯄ꯭ꯔꯣꯐꯦꯁꯔ ꯑꯥꯁꯤꯁ ꯃꯥꯡꯂꯤꯛꯅ ꯍꯥꯏꯔꯤ꯫ ꯅꯥꯅꯣꯕꯣꯗꯤꯁꯤꯡꯁꯤꯡꯁꯤ ꯃꯤꯑꯣꯏꯕꯒꯤ ꯑꯦꯟꯇꯤꯕꯣꯗꯤꯁꯤꯡꯗꯒꯤ ꯄꯤꯛꯏ, ꯑꯗꯨꯅ ꯂꯦꯕꯇ ꯁꯦꯝꯗꯣꯛ-ꯁꯥꯗꯣꯛꯄꯗ ꯑꯔꯥꯏꯕ ꯑꯣꯏꯍꯜꯂꯤ꯫ ꯃꯈꯣꯏꯒꯤ ꯄꯤꯛꯄꯒꯤ ꯆꯥꯡ ꯑꯃꯁꯨꯡ ꯍꯦꯟꯅ ꯆꯝꯕ ꯁꯇ꯭ꯔꯛꯆꯔꯅ ꯃꯔꯝ ꯑꯣꯏꯗꯨꯅ ꯑꯇꯣꯞꯄ ꯃꯈꯜꯁꯤꯡꯒꯤ ꯑꯦꯟꯇꯤꯕꯣꯗꯤꯁꯤꯡꯗꯒꯤ ꯍꯦꯟꯅ ꯐꯤꯚꯝ ꯆꯦꯇꯅ ꯂꯩ꯫ ꯃꯁꯤꯒꯤꯁꯨ ꯃꯊꯛꯇ, ꯃꯤꯑꯣꯏꯕꯒꯤ ꯑꯦꯟꯇꯤꯕꯣꯗꯤꯁꯤꯡꯒ ꯃꯥꯟꯅꯗꯕ ꯃꯑꯣꯡꯗ, ꯅꯥꯅꯣꯕꯣꯗꯤꯁꯤꯡꯁꯤ ꯂꯥꯏꯅ ꯑꯃꯁꯨꯡ ꯁꯦꯜ ꯏꯆꯪ ꯆꯪꯗꯅ ꯃꯔꯥꯡ ꯀꯥꯏꯅ ꯁꯨꯡꯗꯣꯛꯄ ꯌꯥꯏ꯫ ꯂꯥꯏꯟꯇꯤꯁꯠꯁꯤꯡꯅ ꯃꯣꯂꯤꯀ꯭ꯌꯨꯜ ꯕ꯭ꯂꯨꯄ꯭ꯔꯤꯟꯠꯁꯤꯡ ꯌꯥꯎꯔꯕ ꯖꯤꯟꯁꯤꯡꯕꯨ ꯅꯥꯅꯣꯕꯣꯗꯤꯁꯤꯡ ꯁꯦꯝꯒꯠꯅꯕꯗꯤꯗꯃꯛ ꯏ ꯀꯣꯂꯥꯏ ꯅꯠꯇ꯭ꯔꯒ ꯌꯤꯁꯠꯇ ꯍꯥꯞꯆꯤꯜꯂꯤ, ꯑꯗꯨꯒ ꯑꯁꯤꯒꯨꯃꯕ ꯃꯥꯏꯀ꯭ꯔꯣꯕꯁꯤꯡꯕꯨ ꯅꯥꯅꯣꯕꯣꯗꯤ ꯃꯔꯥꯡ ꯀꯥꯏꯅ ꯄꯨꯊꯣꯛꯄ ꯉꯝꯕ ꯐꯦꯛꯇꯔꯤꯁꯤꯡꯗ ꯑꯣꯟꯊꯣꯛꯏ꯫ ꯃꯁꯤꯒꯤ ꯄꯥꯝꯕꯩꯁꯤꯃꯛ ꯏꯟꯁꯨꯂꯤꯟꯕꯨ ꯈꯨꯠꯁꯦꯝꯒꯤ ꯄꯥꯝꯕꯩꯅ ꯃꯔꯥꯡ ꯀꯥꯏꯅ
ꯄꯨꯊꯣꯛꯄꯗ ꯁꯤꯖꯤꯟꯅꯩ꯫
ꯁ꯭ꯄꯥꯏꯛ ꯄ꯭ꯔꯣꯇꯤꯟꯁꯤꯡꯒꯤ ꯃꯇꯦꯡꯅ ꯁꯔꯁ-ꯀꯣꯚ-2 ꯚꯥꯏꯔꯁꯅ ꯁꯦꯜꯁꯤꯡꯗ ꯆꯪꯂꯛꯏ ꯍꯥꯏꯕꯁꯤ ꯑꯩꯈꯣꯏꯅ ꯈꯪꯅꯔꯕꯅꯤ꯫ ꯍꯪꯒꯠ-ꯍꯟꯗ ꯂꯦꯡꯕ ꯉꯝꯕ ꯈꯨꯠꯂꯥꯏꯒꯨꯝ, ꯁ꯭ꯄꯥꯏꯛꯁꯤꯡꯅ ꯊꯤꯡꯗꯨꯅ ꯂꯩꯕ, ꯑꯦꯛꯇꯤꯚ ꯑꯣꯏꯗ꯭ꯔꯤꯕ ꯐꯤꯚꯃ ꯑꯃꯗꯤ ꯍꯥꯡꯗꯣꯛꯂꯕ ꯑꯦꯛꯇꯤꯚ ꯑꯣꯏꯕ ꯐꯤꯚꯝꯗ ꯂꯥꯛꯄ ꯉꯝꯃꯤ꯫ ꯚꯥꯏꯔꯁ ꯑꯃꯒꯤ ꯁ꯭ꯄꯥꯏꯛ 25-ꯃꯨꯛꯅ ꯑꯦꯛꯇꯤꯚ ꯑꯣꯏꯔꯛ ꯃꯇꯝꯗ, ꯁ꯭ꯄꯥꯏꯛꯇꯨꯒꯤ ‘ꯔꯤꯁꯦꯞꯇꯔ-ꯕꯥꯏꯟꯗꯤꯡ ꯗꯣꯃꯦꯏꯟ’ (ꯑꯥꯔ ꯕꯤ ꯗꯤ) ꯑꯍꯨꯝꯅ ꯃꯤꯑꯣꯏꯕꯒꯤ ꯊꯕꯣꯝꯕꯤ ꯑꯃꯁꯨꯡ ꯅꯨꯡꯁꯤꯠꯀꯤ ꯂꯝꯕꯤꯗ ꯂꯩꯔꯤꯕ ꯁꯦꯜꯁꯤꯡꯗ ꯌꯥꯎꯔꯤꯕ ꯔꯤꯁꯦꯞꯇꯔ, ‘ꯑꯦꯁ ꯇꯨ’ (ACE2) ꯗ ꯅꯞꯁꯤꯜꯂꯛꯏ꯫ ꯑꯦꯁ ꯇꯨ ꯔꯤꯁꯦꯞꯇꯔ ꯑꯃꯒ ꯁ꯭ꯄꯥꯏꯛ ꯑꯥꯔ ꯕꯤ ꯗꯤ ꯑꯃꯒꯅ ꯋꯥꯏꯈꯨ ꯑꯃꯒ ꯁꯣꯒ ꯃꯥꯟꯅꯕ ꯃꯑꯣꯡꯗ ꯄꯨꯟꯗꯨꯅ, ꯚꯥꯏꯔꯁ ꯑꯗꯨꯅ ꯁꯦꯜꯗ ꯆꯪꯕ ꯉꯝꯃꯤ (ꯑꯥꯔ ꯕꯤ ꯗꯤ ‘ꯁꯣ’ ꯑꯦꯁ ꯇꯨ ‘ꯋꯥꯏꯈꯨ’ ꯕꯨ ꯍꯥꯡꯗꯨꯅ ꯆꯪꯈꯤꯕ); ꯑꯁꯨꯒ ꯁꯦꯜ ꯃꯅꯨꯡꯗꯨꯕꯨ ꯀꯣꯔꯣꯅꯥꯚꯥꯏꯔꯁ ꯁꯨꯡꯐꯝ ꯑꯣꯏꯍꯜꯂꯛꯏ꯫ ꯊꯤꯖꯤꯜꯂꯣꯏꯁꯤꯡꯅ ꯊꯥꯖꯈꯤꯕꯗꯤ ꯅꯥꯅꯣꯕꯣꯗꯤꯁꯤꯡꯗꯨꯅ ꯁ꯭ꯄꯥꯏꯛ-ꯑꯦꯁ ꯇꯨꯒꯤ ꯄꯨꯟꯁꯤꯟꯅꯕꯁꯤꯕꯨ ꯊꯤꯡꯕ ꯉꯝꯂꯕꯗꯤ, ꯃꯈꯣꯏꯅ ꯚꯥꯏꯔꯁ ꯑꯗꯨꯅ ꯁꯦꯜꯁꯤꯡꯗ ꯏꯟꯐꯦꯛꯠ ꯇꯧꯕ ꯉꯝꯂꯣꯏ ꯍꯥꯏꯕꯁꯤꯅꯤ꯫ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯐꯕ ꯅꯥꯅꯣꯕꯤꯗꯤꯁꯤꯡ ꯈꯟꯅꯕꯒꯤꯗꯃꯛ, ꯊꯤꯖꯤꯜꯂꯣꯏꯁꯤꯡꯅ ꯃꯥꯡꯂꯤꯛꯀꯤ ꯂꯦꯕꯇ ꯂꯩꯔꯤꯕ ꯈꯨꯠꯁꯦꯝꯒꯤ ꯅꯥꯅꯣꯕꯣꯗꯤ ꯕꯤꯂꯤꯌꯟ 2ꯒꯤ ꯃꯅꯨꯡꯗꯒꯤ ꯆꯥꯡꯌꯦꯡ ꯀꯌꯥ ꯇꯧꯔꯕ ꯃꯇꯨꯡꯗ, ꯅꯥꯅꯣꯕꯣꯗꯤ 21ꯅ ꯁ꯭ꯄꯥꯏꯛ ꯁꯦꯝꯗꯣꯛꯂꯕ ꯃꯑꯣꯡ ꯑꯃꯅ ꯑꯦꯁ ꯇꯨꯒ ꯄꯨꯟꯁꯤꯟꯅꯕꯕꯨ ꯊꯤꯡꯕ ꯉꯝꯃꯤ ꯍꯥꯏꯕꯁꯤ ꯈꯪꯂꯛꯈꯤ꯫ ꯃꯈꯥ ꯇꯥꯔꯛꯄ ꯆꯥꯡꯌꯦꯡꯁꯤꯡꯅ, ꯀ꯭ꯔꯥꯏꯑꯣ-ꯏꯂꯦꯛꯇ꯭ꯔꯣꯟ ꯃꯥꯏꯀ꯭ꯔꯣꯁ꯭ꯀꯣꯄꯤ ꯁꯤꯖꯤꯟꯅꯗꯨꯅ ꯅꯥꯅꯣꯕꯣꯗꯤ ꯁ꯭ꯄꯥꯏꯛ ꯏꯟꯇꯔꯐꯦꯁꯄꯨ ꯈꯪꯅꯅꯕꯒꯤꯗꯃꯛ ꯄꯥꯡꯊꯣꯛꯈꯤꯕꯗ, ꯊꯦꯡꯅꯔꯛꯈꯤꯕ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯃꯄꯥꯡꯒꯜ ꯀꯜꯂꯕ ꯅꯥꯅꯣꯕꯣꯗꯤꯁꯤꯡꯅ ꯑꯥꯔ ꯕꯤ ꯗꯤꯁꯤꯡꯗ ꯍꯛꯊꯦꯡꯅꯅ ꯀꯟꯅ ꯅꯞꯁꯤꯟꯗꯨꯅ ꯂꯩꯈꯤꯕꯗꯒꯤ ꯁ꯭ꯄꯥꯏꯛꯀ ꯑꯦꯁ ꯇꯨꯒ ꯄꯨꯟꯁꯤꯟꯅꯕ ꯉꯝꯍꯟꯗꯦ꯫ ꯃꯇꯥꯡ ꯑꯁꯤꯗ ꯅꯥꯅꯣꯕꯣꯗꯤꯁꯤꯡꯅ ꯑꯥꯔ ꯕꯤ ꯗꯤꯒꯤ ‘ꯁꯣ’ ꯕꯨ ꯊꯥꯡꯈꯨꯝꯅ ꯊꯥꯡ ꯀꯨꯞꯁꯤꯟꯕꯒꯨꯝꯅ, ꯀꯨꯞꯁꯤꯟꯗꯨꯅ ꯊꯝꯂꯦ; ꯑꯗꯨꯒ ꯁꯣ ꯑꯣꯏꯔꯤꯕ ꯑꯥꯔ ꯕꯤ ꯗꯤꯅ ‘ꯋꯥꯏꯈꯨ’ ꯑꯣꯏꯔꯤꯕ ꯑꯦꯁ ꯇꯨꯗ ꯊꯤꯟꯖꯤꯟꯕ ꯌꯥꯗ꯭ꯔꯦ, ꯍꯥꯏꯕꯗꯤ ꯑꯥꯔ ꯕꯤ ꯗꯤꯒꯤ ꯁꯣꯅ ꯑꯦꯁ ꯇꯨꯒꯤ ꯋꯥꯏꯈꯨꯕꯨ ꯍꯥꯡꯗꯨꯅ ꯁꯦꯜꯒꯤ ꯃꯅꯨꯡꯗ ꯆꯪꯕ ꯉꯝꯗ꯭ꯔꯦ꯫
ꯃꯊꯛꯀꯤ ꯆꯥꯡꯌꯦꯡ ꯑꯁꯤ ꯂꯦꯞꯇ ꯁꯦꯝꯗꯣꯛ-ꯁꯥꯗꯣꯛꯂꯕ ꯚꯥꯏꯔꯁꯀꯤ ꯁ꯭ꯄꯥꯏꯛꯁꯤꯡꯗ ꯄꯥꯡꯍꯣꯛꯈꯤꯕꯅꯤ꯫ ꯊꯤꯖꯤꯟ-ꯂꯨꯞ ꯑꯁꯤꯅ ꯑꯁꯦꯡꯕ ꯁꯔꯁ-ꯀꯣꯚ-2 ꯚꯥꯏꯔꯁꯇ ꯆꯥꯡꯌꯦꯡꯁꯤ ꯄꯥꯡꯊꯣꯛꯅꯕꯒꯤꯗꯃꯛ, ꯄꯦꯔꯤꯁꯀꯤ ꯏꯟꯁꯇꯤꯇ꯭ꯌꯨꯠ ꯄꯥꯁꯇꯔꯒꯤ ꯃꯥꯔꯀꯣ ꯚꯤꯒꯅꯨꯖꯤꯒꯤ ꯂꯦꯕꯇ ꯚꯥꯏꯔꯣꯂꯣꯖꯤꯁꯠ, ꯚꯦꯔꯣꯅꯤꯀꯥ ꯔꯦꯖꯦꯜꯖꯅ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯑꯥꯁꯥ ꯇꯧꯅꯤꯡꯉꯥꯏ ꯑꯣꯏꯔꯤꯕ ꯅꯥꯅꯣꯕꯣꯗꯤ ꯑꯍꯨꯝꯈꯛꯄꯨ ꯑꯍꯤꯡꯕ ꯚꯥꯏꯔꯁꯁꯤꯡꯗ ꯆꯥꯡ ꯌꯦꯡꯕꯗ, ꯌꯥꯝꯅ ꯅꯦꯝꯕ ꯅꯥꯅꯣꯕꯣꯗꯤꯒꯤ ꯆꯥꯡꯅ ꯐꯥꯎꯕ ꯏꯟꯐꯦꯛꯁꯟꯕꯨ ꯊꯤꯡ ꯉꯝꯕ ꯊꯦꯡꯅꯔꯝꯃꯤ꯫ ꯅꯥꯅꯣꯕꯣꯗꯤꯁꯤꯡꯁꯤꯅ ꯑꯥꯔ ꯕꯤ ꯗꯤꯁꯤꯡꯕꯨ ꯀꯨꯞꯁꯤꯟꯗꯨꯅ ꯊꯝꯕꯈꯛꯇ ꯅꯠꯇꯅ, ꯃꯣꯂꯤꯀ꯭ꯌꯨꯜꯒꯤ ꯂꯥꯡ ꯑꯃꯒꯨꯝꯅ, ꯁ꯭ꯄꯥꯏꯛ ꯑꯗꯨꯕꯨ ꯃꯊꯧ ꯇꯧꯍꯟꯗꯅ ꯊꯝꯕꯗꯒꯤ ꯁ꯭ꯄꯥꯏꯛꯀ ꯑꯦꯁ ꯇꯨꯒ ꯄꯨꯟꯁꯤꯟꯅꯕ ꯉꯝꯗꯅꯕ ꯑꯍꯦꯟꯕ ꯃꯔꯣꯜ ꯑꯃꯁꯨ ꯁꯦꯝꯃꯤ꯫
ꯃꯈꯥ ꯇꯥꯔꯛꯄ ꯆꯥꯡꯌꯦꯡꯁꯤꯡꯗ, ꯊꯤꯖꯤꯟ-ꯂꯨꯞ ꯑꯁꯤꯅ ꯃꯣꯂꯤꯀ꯭ꯌꯨꯂꯔ ꯆꯦꯏꯟ ꯑꯃ ꯁꯦꯝꯗꯨꯅ ꯅꯥꯅꯣꯕꯣꯗꯤ ꯑꯍꯨꯝꯕꯨ ꯄꯨꯁꯤꯟꯅꯍꯜꯂꯝꯃꯤ꯫ ꯁ꯭ꯄꯥꯏꯛ ꯄ꯭ꯔꯣꯇꯤꯟ ꯈꯨꯗꯤꯡꯃꯛꯀꯤ ꯑꯦꯁ ꯇꯨꯒ ꯄꯨꯟꯁꯤꯟꯅꯕ ꯉꯝꯕ ꯑꯥꯔ ꯕꯤ ꯗꯤ ꯑꯍꯨꯝ ꯌꯥꯎꯏ꯫ ꯅꯥꯅꯣ ꯕꯣꯗꯤ ꯑꯍꯨꯝꯒꯤ ꯆꯦꯏꯟꯁꯤꯒꯤ ꯃꯅꯨꯡꯗꯒꯤ ꯅꯥꯅꯣꯕꯗꯤ ꯑꯃꯅ ꯑꯥꯔ ꯕꯤ ꯗꯤ ꯑꯃꯗ ꯍꯦꯛ ꯅꯞꯁꯤꯟꯈꯤꯕꯒ ꯑꯇꯣꯞꯄ ꯑꯅꯤꯗꯨꯅꯁꯨ ꯂꯦꯃꯍꯧꯔꯤꯕ ꯑꯥꯔ ꯕꯤ ꯗꯤ ꯑꯅꯤꯗꯨꯗ ꯅꯞꯁꯤꯜꯂꯤ. ꯑꯁꯨꯝꯅ ꯇꯧꯕꯁꯤꯅ, ꯅꯥꯅꯣꯕꯣꯗꯤ ꯑꯃꯈꯛꯇꯪ ꯁꯤꯖꯤꯟꯅꯕꯗꯒꯤ ꯅꯥꯅꯣꯕꯣꯗꯤꯒꯤ ꯃꯄꯥꯡꯒꯜ ꯑꯁꯤ ꯁꯔꯨꯛ 2,00,000 ꯔꯣꯝ ꯀꯟꯈꯠꯍꯟꯕ ꯉꯝꯂꯝꯃꯤ꯫ ꯑꯁꯤꯒꯨꯝꯕ ꯍꯥꯏꯅꯤꯡꯉꯥꯏ ꯂꯩꯇꯅ ꯃꯄꯥꯡꯒꯜ ꯀꯟꯈ꯭ꯔꯕ ꯅꯥꯅꯣꯕꯣꯗꯤ ꯑꯍꯨꯝꯒꯤ ꯆꯦꯏꯟꯁꯤꯅ ꯑꯦꯔꯣꯅꯥꯕꯁ ꯁꯦꯝꯕꯒꯤ ꯌꯨꯝꯐꯝ ꯑꯣꯏꯔꯛꯈꯤ ꯍꯥꯏꯟ ꯋꯥꯜꯔꯅ ꯐꯣꯡꯗꯣꯛꯂꯤ꯫

ꯑꯔꯣꯏꯕꯒꯤ ꯑꯣꯏꯅ ꯄꯥꯏꯁꯠꯈꯤꯕ ꯆꯥꯡꯌꯦꯡꯁꯤꯡ, ꯊꯤꯖꯤꯟ-ꯂꯨꯞ ꯑꯁꯤꯅ ꯅꯥꯅꯣꯕꯣꯗꯤꯁꯤꯡꯕꯨ ꯁꯇ꯭ꯔꯦꯁ ꯇꯦꯁꯠ, ꯑꯋꯥꯡꯕ ꯇꯦꯝꯄꯦꯔꯦꯆꯔꯗ ꯊꯝꯕ, ꯁꯦꯜꯐ-ꯁ꯭ꯇꯦꯕꯜ ꯄꯥꯎꯗꯔꯗ ꯑꯣꯟꯊꯣꯛꯄ ꯑꯃꯁꯨꯡ ꯑꯦꯔꯣꯁꯣꯜ ꯁꯦꯝꯕꯒꯤ ꯆꯥꯡꯌꯦꯡꯁꯤꯡ ꯃꯊꯪ ꯃꯊꯪ ꯄꯥꯡꯊꯣꯛꯈꯤ, ꯑꯗꯨꯕꯨ ꯅꯥꯅꯣꯕꯣꯗꯤꯁꯤꯡꯒꯤ ꯑꯦꯟꯇꯤꯚꯥꯏꯔꯦꯜꯒꯤ ꯃꯒꯨꯟꯁꯤꯡꯗꯤ ꯑꯦꯔꯣꯁꯣꯜꯗ ꯑꯣꯟꯊꯣꯛꯂꯕꯁꯨ ꯃꯥꯡꯗꯅ ꯑꯗꯨꯝ ꯂꯩꯔꯝꯃꯤ꯫ ꯃꯁꯤꯅ ꯇꯥꯛꯂꯤꯕꯗꯤ ꯑꯦꯔꯣꯅꯥꯕꯁꯁꯤꯡꯅ ꯁꯔꯁ-ꯀꯣꯚ-2 ꯑꯦꯟꯇꯤꯚꯥꯏꯔꯦꯜ ꯑꯣꯏꯕꯗ ꯃꯇꯤꯛ ꯆꯥꯔꯦ ꯍꯥꯏꯕꯁꯤꯅꯤ꯫ ꯑꯗꯨꯅ ꯊꯤꯖꯤꯟ-ꯂꯨꯞ ꯑꯁꯤꯅ ꯀꯝꯃꯔꯁꯤꯑꯦꯜ ꯄꯥꯔꯠꯅꯔꯁꯤꯡꯒ ꯂꯣꯏꯅꯅ ꯑꯦꯔꯣꯅꯥꯕꯁꯄꯨ ꯀ꯭ꯂꯤꯅꯤꯀꯦꯜ ꯇ꯭ꯔꯥꯏꯑꯦꯜ ꯇꯧꯅꯕꯒꯤꯗꯃꯛ ꯁꯦꯝ-ꯁꯥꯗꯨꯅ ꯂꯩꯈꯔꯦ꯫

‘ꯑꯔꯣꯅꯥꯕꯁ’ ꯀꯣꯚꯤꯗ-19 ꯃꯥꯏꯊꯤꯕ ꯄꯤꯔꯒꯗꯕ, ꯃꯄꯥꯡꯒꯜ ꯀꯜꯂꯕ ꯑꯦꯔꯣꯁꯣꯜ
ꯗꯣ. ꯂꯩꯃꯄꯣꯛꯄꯝ ꯇꯤꯀꯦꯟꯗ꯭ꯔ