ꯃꯥꯂꯦꯝꯒꯤ ꯄꯨꯋꯥꯔꯤꯁꯤ ꯑꯁꯨꯝ ꯐꯥꯀꯠꯇꯨꯅ ꯌꯦꯡꯂꯨꯕꯗ ꯌꯥꯝꯅ ꯃꯌꯦꯛ ꯁꯦꯡꯅ ꯈꯪꯕ ꯉꯝꯂꯤꯕꯗꯤ : ꯈꯨꯟꯗꯥ- ꯂꯩꯇꯥꯔꯛꯉꯩꯗꯒꯤ ꯅꯨꯄꯤꯁꯤꯡꯕꯨ ꯍꯟꯊꯅ ꯌꯦꯡꯕ ꯅꯠꯇ꯭ꯔꯒ ꯅꯨꯄꯥꯁꯤꯡꯗ ꯍꯦꯟꯅ ꯈꯨꯗꯣꯡꯆꯥꯕ ꯄꯤꯕꯁꯤ ꯅꯠꯅꯔꯛꯏ꯫ ꯌꯨꯔꯣꯞꯇꯁꯨ ꯅꯨꯄꯤꯁꯤꯡꯅ ꯁꯥꯏꯟꯁ ꯑꯃꯁꯨꯡ ꯑꯡꯛ ꯇꯝꯕ ꯌꯥꯗꯦ ꯍꯥꯏꯕꯒꯤ ꯃꯇꯝ ꯂꯩꯈꯤ꯫ ꯃꯦꯔꯤ ꯀ꯭ꯌꯨꯔꯤ ꯑꯃꯁꯨꯡ ꯏꯃꯤ ꯅꯣꯏꯊꯔ (ꯖꯔꯃꯟ ꯃꯦꯊꯃꯦꯇꯤꯛꯁꯌꯟ) ꯁꯨ ꯑꯁꯤꯒꯨꯝꯕ ꯆꯩꯊꯦꯡꯁꯤ ꯐꯪꯈꯤ꯫ ꯑꯗꯨꯕꯨ ꯃꯇꯝꯒꯤ ꯌꯥꯑꯣꯜ ꯃꯇꯨꯡꯏꯟꯅ ꯅꯨꯄꯤꯁꯤꯡꯕꯨ ꯍꯟꯍꯅ ꯌꯦꯡꯕ ꯅꯠꯇ꯭ꯔꯒ ꯈꯨꯗꯣꯡꯆꯥꯕ ꯄꯤꯗꯕꯁꯤ ꯃꯨꯠꯁꯤꯜꯂꯛꯂꯣ꯫ ꯍꯟꯗꯛ ꯆꯍꯤꯒꯤ ꯀꯦꯃꯤꯁꯇ꯭ꯔꯤꯒꯤ ꯅꯣꯕꯦꯜ ꯄ꯭ꯔꯥꯏꯖ ꯑꯁꯤꯒꯤ ꯇꯣꯞ ꯇꯣꯞꯄ ꯁꯛꯇꯝ ꯑꯃꯗꯤ : ꯀꯦꯃꯤꯁꯇ꯭ꯔꯤꯗ ꯄꯨꯟꯅ ꯐꯪꯃꯤꯟꯅꯕ ꯅꯣꯕꯦꯜ ꯄ꯭ꯔꯥꯏꯖꯁꯤꯡꯒꯤ ꯃꯅꯨꯡꯗ ꯅꯨꯄꯤ ꯉꯥꯛꯇꯅ ꯐꯪꯕꯁꯤ ꯍꯟꯗꯛꯀꯤ ꯑꯁꯤꯅ ꯑꯍꯥꯟꯕꯅꯤ꯫ ꯃꯁꯤꯒꯤ ꯃꯃꯥꯡꯗ, ꯀꯦꯃꯤꯁꯇ꯭ꯔꯤꯗ ꯅꯨꯄꯤ ꯑꯃꯈꯛꯇꯅ ꯐꯪꯈꯤꯕ ꯑꯃꯁꯨꯡ ꯅꯨꯄꯥꯁꯤꯡꯒ ꯐꯪꯃꯤꯟꯅꯈꯤꯕ ꯃꯉꯥ ꯂꯩꯈ꯭ꯔꯦ; ꯃꯈꯣꯏꯗꯨꯗꯤ ꯃꯦꯔꯤ ꯀ꯭ꯌꯨꯔꯤ (1911), ꯀ꯭ꯌꯨꯔꯤꯇꯤ ꯃꯆꯥꯅꯨꯄꯤ ꯏꯔꯤꯟ ꯖꯣꯂꯤꯑꯣꯠ-ꯀ꯭ꯌꯨꯔꯤ (1935), ꯗꯣꯔꯣꯊꯤ ꯀ꯭ꯔꯣꯐꯨꯠ ꯍꯣꯗꯖꯀꯤꯟ (1964), ꯑꯗꯥ ꯌꯣꯅꯥꯗ (2009) ꯑꯃꯁꯨꯡ ꯐ꯭ꯔꯥꯅꯁꯤꯁ ꯑꯥꯔꯅꯣꯜꯗ (2018) ꯅꯤ꯫ ꯍꯟꯗꯛ ꯆꯍꯤꯁꯤꯒꯤ ꯑꯣꯏꯅꯗꯤ CRISPR/Cas9 ꯍꯥꯏꯅ ꯈꯪꯅꯕ ꯖꯤꯅꯦꯇꯤꯛ ꯁꯤꯖꯔ (ꯖꯤꯟꯕꯨ ꯀꯛꯊꯠꯅꯕ ꯀꯥꯇꯤ) ꯑꯁꯤꯒꯤ ꯃꯇꯦꯡꯅ ꯖꯤꯅꯣꯝ ꯑꯦꯗꯤꯇꯤꯡ ꯇꯧꯕꯒꯤ ꯄꯥꯝꯕꯩꯁꯤ ꯄꯨꯊꯣꯛꯅꯕꯒꯤꯗꯃꯛ ꯐ꯭ꯔꯥꯟꯁꯀꯤ ꯏꯃꯥꯅ꯭ꯌꯨꯜ ꯆꯥꯔꯄꯦꯟꯇꯤꯌꯔ ꯑꯃꯁꯨꯡ ꯌꯨ ꯑꯦꯁ ꯑꯦꯒꯤ ꯖꯦꯅꯤꯐꯔ ꯗꯧꯗꯅꯥꯗ ꯄꯤꯔꯒꯅꯤ ꯍꯥꯏꯅ ꯑꯣꯛꯇꯣꯕꯔ 7 ꯇ ‘ꯔꯣꯌꯜ ꯁ꯭ꯋꯤꯗꯤꯁ ꯑꯦꯀꯥꯗꯦꯃꯤ ꯑꯣꯐ ꯁꯥꯏꯅꯁꯦꯁ’ ꯅ ꯂꯥꯎꯊꯣꯛꯈ꯭ꯔꯦ꯫
ꯐꯤꯜꯝ ꯑꯃ ꯃꯆꯦꯠ ꯃꯆꯦꯇ ꯅꯝꯂꯕ ꯃꯇꯨꯡꯗ, KkHoK-ꯀꯛꯁꯤꯟ, ꯁꯦꯝꯗꯣꯛ-ꯁꯦꯝꯖꯤꯟ ꯇꯧꯔꯒ ꯐꯖꯔꯕ, ꯃꯄꯨꯡ ꯐꯥꯔꯕ ꯐꯤꯜꯝ ꯑꯃ ꯑꯣꯏꯍꯜꯂꯛꯏ꯫ ꯐꯣꯇꯣ ꯑꯃꯁꯨꯡ ꯚꯤꯗꯤꯑꯣꯁꯤꯡꯕꯨ ꯑꯦꯗꯤꯠ ꯇꯧꯅꯕ ‘ꯑꯦꯗꯤꯇꯔ’ ꯃꯌꯥꯝ ꯄ꯭ꯂꯦ ꯁ꯭ꯇꯣꯔꯗ yauri꯫ ꯃꯈꯣꯏꯒꯤ ꯃꯇꯦꯡꯅ ꯐꯣꯇꯣ ꯑꯃꯁꯨꯡ ꯚꯤꯗꯤꯑꯣꯁꯤꯡꯕꯨ ꯑꯦꯗꯤꯠ ꯇꯧꯔꯒ ꯍꯦꯟꯅ ꯐꯖꯍꯜꯂꯤ, ꯄꯥꯝꯗꯕ ꯃꯇꯥꯡꯁꯤꯡꯕꯨꯁꯨ ꯀꯛꯊꯠꯂꯤ꯫ ꯃꯁꯤꯒ ꯃꯥꯟꯅꯕ ꯃꯑꯣꯡ ꯑꯃꯗ, ꯖꯤꯟꯁꯤꯡꯕꯨ ꯑꯦꯗꯤꯠ ꯇꯧꯔꯒ ꯑꯄꯥꯝꯕ, ꯑꯐꯕ ꯃꯥꯏꯀꯩ ꯑꯃꯗ ꯄꯨꯔꯛꯄ ꯌꯥꯏ꯫ ꯖꯤꯟꯁꯤꯡꯕꯨ ꯑꯦꯗꯤꯠ ꯇꯧꯅꯕꯒꯤ ꯄꯥꯝꯕꯩ ꯀꯌꯥꯃꯨꯛ ꯂꯩ꯫ ꯃꯁꯣꯏꯁꯤꯡꯗꯨꯒꯤ ꯃꯅꯨꯡꯗꯒꯤ CRISPR/Cas9 ꯑꯁꯤꯁꯨ ꯁꯤꯡꯊꯥꯕ ꯌꯥꯔꯕ ꯑꯃꯅꯤ ꯍꯥꯏꯗꯨꯅ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯊꯥꯛ ꯋꯥꯡꯂꯕ ꯃꯅꯥ ꯑꯁꯤ ꯂꯥꯟꯊꯣꯛꯀꯗꯧꯔꯤꯕꯅꯤ - ꯆꯥꯔꯄꯦꯟꯇꯤꯌꯔ ꯑꯃꯁꯨꯡ ꯗꯧꯗꯅꯥꯗ꯫
ꯀꯔꯝꯅ ꯆꯥꯔꯄꯦꯟꯇꯤꯌꯔ ꯑꯝꯁꯨꯡ ꯗꯧꯗꯅꯥꯅ CRISPR/Cas9 ꯄꯨꯊꯣꯔꯛꯈꯤꯕ? ꯃꯥꯏꯀ꯭ꯔꯣꯁꯣꯐꯠ (ꯑꯦꯝ ꯑꯦꯁ) ꯋꯔꯗꯅ ꯇꯧꯕꯒꯨꯝꯅ, CRISPR/Cas9 ꯁꯤꯁꯇꯝꯅ ꯑꯍꯤꯡꯕ ꯖꯤꯕꯁꯤꯡꯗ ꯖꯤꯅꯣꯃꯤꯛ ꯀꯣꯗ (ꯏꯕꯗ ꯁꯤꯖꯤꯟꯅꯔꯕꯤ ꯃꯌꯦꯛ ꯑꯃꯒꯤ ꯃꯇꯧꯒꯨꯝꯅ) ꯍꯥꯞꯆꯤꯟꯕ, ꯑꯣꯟꯊꯣꯛꯅꯍꯟꯕ ꯑꯃꯁꯨꯡ ꯂꯧꯊꯣꯛꯈꯤꯕ ꯉꯝꯍꯜꯂꯤ꯫ ꯀ꯭ꯂꯁꯇꯔꯗ ꯔꯦꯒꯨꯂꯔꯂꯤ ꯏꯟꯇꯔꯁ꯭ꯄꯦꯁꯗ ꯁꯣꯔꯠ ꯄꯥꯔꯂꯤꯟꯗ꯭ꯔꯣꯃꯤꯛ ꯔꯤꯄꯤꯠꯁ (CRISPR) ꯍꯥꯏꯕꯁꯤ ꯑꯦꯝ ꯑꯦꯁ ꯋꯔꯗꯇ ꯑꯩꯈꯣꯏꯅ ꯏꯔꯤꯕ ꯇꯣꯉꯥꯟ-ꯇꯣꯉꯥꯟꯕ ꯗꯣꯀ꯭ꯌꯨꯃꯦꯟꯠꯁꯤꯡꯕꯨ ꯁ꯭ꯇꯣꯔ ꯇꯧꯅꯕꯒꯤꯗꯃꯛ ꯐꯥꯏꯜ ꯃꯃꯤꯡꯁꯤꯡ ꯁꯤꯖꯤꯟꯅꯕꯒꯨꯝꯅ, ꯃꯈꯣꯏꯗ ꯂꯥꯟꯗꯥꯁꯤꯜꯂꯛꯂꯤꯕ ꯚꯥꯏꯔꯁꯁꯤꯡꯗꯒꯤ ꯕꯦꯛꯇꯔꯤꯌꯥꯅ ꯀꯛꯊꯠꯂꯕ ꯗꯤ ꯑꯦꯟ ꯑꯦꯒꯤ ꯃꯆꯦꯠꯁꯤꯡꯅꯤ꯫ ꯀꯣꯚꯤꯗ-19 ꯄꯦꯟꯗꯦꯃꯤꯛꯅ ꯚꯥꯏꯔꯁ ꯑꯃꯅ ꯑꯃꯨꯛ ꯍꯟꯅ ꯏꯟꯐꯦꯛꯠ ꯇꯧꯔꯛꯄꯗꯒꯤ ꯉꯥꯛꯏꯊꯣꯛꯅꯕꯒꯤꯗꯃꯛ ꯃꯔꯤ ꯂꯩꯟꯕ ꯑꯦꯟꯇꯤꯕꯣꯗꯤꯁꯤꯡ ꯊꯨꯅ ꯄꯨꯊꯣꯛꯄ ꯉꯝꯕ ‘ꯃꯦꯃꯣꯔꯤ ꯁꯦꯜꯁꯤꯡ’ ꯒꯤ ꯃꯔꯨ ꯑꯣꯏꯕꯗꯨ ꯂꯥꯛꯍꯜꯂꯤ꯫ ꯑꯁꯨꯝꯅ CRISPR-ꯁꯤꯡꯁꯤ ꯀꯤ ꯈꯪꯍꯜꯂꯛꯂꯤꯕ ꯚꯥꯏꯔꯁꯁꯤꯡꯕꯨ ꯃꯁꯛ ꯈꯪꯗꯣꯛꯄꯗ ꯃꯇꯦꯡ ꯄꯥꯡꯕ ꯕꯦꯛꯇꯔꯤꯌꯥꯒꯤ IMmyBuNolojikeL ꯁꯤꯁꯇꯝꯁꯤꯡꯒꯤ ꯁꯔꯨꯛ ꯑꯃꯅꯤ꯫ ꯃꯈꯣꯏꯅ ꯂꯨꯝꯗꯨꯅ ꯂꯩꯔꯤꯕ ꯚꯥꯏꯔꯁ ꯑꯃ ꯍꯦꯛ ꯎꯕꯒ, ꯕꯦꯛꯇꯔꯤꯌꯥ ꯑꯗꯨꯅ ꯁꯦꯝꯗꯣꯛ-ꯁꯥꯗꯣꯛꯂꯕ ꯑꯑꯔ ꯑꯦꯟ ꯑꯦ ꯄꯨꯊꯣꯛꯏ, ꯃꯁꯤ

CRISPR ꯂꯥꯏꯕ꯭ꯔꯦꯔꯤꯗꯒꯤ ꯐꯪꯕ ꯏ-ꯄꯥꯎꯅ ꯗꯤ ꯑꯦꯟ ꯑꯦꯕꯨ ꯄ꯭ꯔꯣꯇꯤꯟꯗ ꯑꯣꯟꯊꯣꯀꯄꯗ ꯗꯔꯀꯥꯔ ꯑꯣꯏ꯫ ꯃꯁꯤꯗ Cas-9 ꯒꯨꯝꯕ ꯑꯦꯟꯖꯥꯏꯝꯁꯤꯡ ꯄꯨꯊꯣꯛꯄꯗ ꯁꯤꯖꯤꯟꯅꯔꯤꯕ Cas (CRISPR - associated) ꯖꯤꯅꯁꯤꯡꯁꯨ ꯌꯥꯎꯔꯤ꯫ ꯑꯦꯟꯖꯥꯏꯝꯁꯤꯡꯁꯤ ꯚꯥꯏꯔꯁꯀꯤ ꯗꯤ ꯑꯦꯟ ꯑꯦꯕꯨ ꯃꯇꯠ-ꯃꯇꯠ ꯀꯛꯊꯠꯄꯗ ꯁꯤꯖꯤꯟꯅꯩ ꯑꯃꯁꯨꯡ ꯚꯥꯏꯔꯁꯁꯤꯡꯗꯨꯕꯨ ꯍꯥꯠꯇꯣꯛꯏ꯫ ꯈꯨꯠꯂꯥꯏ ꯑꯁꯤ ꯁꯤꯖꯤꯟꯅꯔꯒ, HijilLib ꯁꯥꯏꯟꯇꯤꯁꯠꯁꯤꯡꯅ ꯌꯥꯝꯅ ꯃꯔꯤꯛ ꯆꯨꯝꯅ ꯁꯥꯁꯤꯡ, ꯄꯥꯝꯕꯤꯁꯤꯡ ꯑꯃꯁꯨꯡ ꯃꯥꯏꯀ꯭ꯔꯣꯑꯣꯔꯒꯥꯅꯤꯖꯝꯁꯤꯡꯒꯤ ꯑꯦ ꯑꯦꯟ ꯑꯦꯕꯨ ꯍꯣꯡꯍꯜꯂꯤ꯫ ꯏꯃꯥꯅ꯭ꯌꯨꯜ ꯆꯥꯔꯄꯦꯟꯇꯤꯌꯔꯅ ꯐꯥꯔꯤꯟꯖꯥꯏꯇꯤꯁ, ꯇꯣꯟꯁꯤꯂꯥꯏꯇꯤꯁ ꯑꯃꯁꯨꯡ ꯁ꯭ꯀꯥꯔꯂꯦꯠ ꯐꯤꯚꯔꯒꯨꯝꯕ ꯃꯈꯜ ꯀꯌꯥꯒꯤ ꯂꯥꯏꯅꯥꯁꯤꯡ ꯄꯣꯛꯍꯜꯂꯤꯕ ꯕꯦꯛꯇꯔꯤꯌꯥꯒꯤ ꯁ꯭ꯄꯦꯁꯤꯁ, ꯁ꯭ꯔꯦꯞꯇꯣꯀꯣꯛꯁ ꯄꯥꯌꯣꯖꯤꯟꯁꯀꯤ ꯃꯇꯥꯡꯗ ꯅꯩꯅꯈꯤ꯫ ꯑꯁꯨꯝꯅ ꯅꯩꯅꯕꯁꯤꯗ ꯍꯥꯟꯅ ꯃꯁꯛ ꯈꯪꯂꯥꯕꯀ ꯈꯪꯂꯝꯗꯕ ꯃꯣꯂꯤꯀ꯭ꯌꯨꯜ, tracrRNA ꯄꯨꯊꯣꯛꯄ ꯉꯝꯈꯤ꯫ tracrRNA ꯑꯁꯤ ꯕꯦꯛꯇꯔꯤꯌꯥꯒꯤ ꯊꯥꯏꯅꯉꯩꯗꯒꯤ ꯂꯣꯏꯅꯔꯛꯂꯕ ꯏꯝꯃ꯭ꯌꯨꯟ ꯁꯤꯁꯇꯝ, CRISPR/Cas ꯀꯤ ꯁꯔꯨꯛ ꯑꯃꯅꯤ; ꯃꯁꯤꯅ ꯚꯥꯏꯔꯁꯁꯤꯡꯒꯤ ꯗꯤ ꯑꯦꯟ ꯑꯦꯕꯨ ꯀꯛꯊꯇꯇꯨꯅ ꯚꯥꯏꯔꯁꯤꯡꯕꯨ ꯃꯥꯡꯍꯜꯂꯤ꯫ ꯃꯍꯥꯛꯀꯤ ꯊꯤꯖꯤꯟ-ꯆꯦꯔꯣꯜꯗꯨ ꯀꯨꯝꯖꯥ 2011ꯗ ꯐꯣꯡꯗꯣꯔꯛꯈꯤ꯫ ꯆꯍꯤ ꯑꯁꯤꯃꯛꯇꯗ, ꯃꯍꯥꯛꯅ ꯖꯦꯅꯤꯐꯔ ꯇꯧꯗꯅꯥꯒ ꯈꯨꯠꯁꯝꯅꯔꯒ, ꯕꯦꯛꯇꯔꯤꯌꯥꯒꯤ ꯖꯤꯟꯒꯤ ꯀꯥꯇꯤꯁꯤꯡꯗꯨꯕꯨ ꯇꯦꯁꯠ ꯇ꯭ꯌꯨꯕꯇ ꯑꯃꯨꯛ ꯍꯟꯅ ꯁꯦꯝꯒꯠꯈꯤ ꯑꯃꯁꯨꯡ ꯁꯤꯖꯤꯟꯅꯕꯗ ꯍꯦꯟꯅ ꯂꯥꯏꯊꯣꯛꯍꯟꯅꯕꯒꯤꯗꯃꯛ ꯀꯥꯇꯤꯁꯤꯡꯗꯨꯒꯤ ꯃꯣꯂꯤꯀ꯭ꯌꯂꯔ ꯀꯝꯄꯣꯅꯦꯟꯠꯁꯤꯡꯗꯨꯕꯨ ꯆꯥꯝꯊꯣꯛꯍꯟꯈꯤ꯫ ꯁꯤꯡꯊꯥꯅꯤꯡꯉꯥꯏ ꯑꯣꯏꯔꯕ ꯆꯥꯡꯌꯦꯡ ꯑꯗꯨꯗ ꯃꯁꯣꯏꯅ ꯖꯤꯟꯒꯤ ꯀꯥꯇꯤꯁꯤꯡꯗꯨꯕꯨ ꯔꯤꯄ꯭ꯔꯣꯒ꯭ꯔꯥꯝ ꯇꯧꯔꯝꯃꯤ꯫ ꯃꯈꯣꯏꯒꯤ ꯃꯍꯧꯁꯥꯒꯤ ꯑꯣꯏꯕ ꯃꯑꯣꯡꯗ, ꯀꯥꯇꯤꯁꯤꯡꯗꯨꯅ ꯚꯥꯏꯔꯁꯤꯡꯒꯤ ꯗꯤ ꯑꯦꯟ ꯑꯦꯕꯨ ꯃꯁꯛ ꯈꯪꯗꯣꯛꯏ, ꯑꯗꯨꯕꯨ ꯆꯥꯔꯄꯦꯟꯇꯤꯌꯔ ꯑꯃꯁꯨꯡ ꯗꯧꯗꯅꯥꯅ ꯎꯠꯈꯤꯕꯗꯤ ꯃꯈꯣꯏꯕꯨ ꯂꯥꯛꯁꯤꯟꯗꯨꯅ ꯍꯥꯟꯅꯅ ꯂꯦꯞꯊꯣꯛꯂꯕ ꯃꯐꯝ ꯑꯃꯗꯤ ꯗꯤ ꯑꯦꯟ ꯑꯦ ꯃꯣꯂꯤꯀ꯭ꯌꯨꯜ ꯑꯃ ꯍꯦꯛꯇꯕꯨ ꯀꯛꯊꯠꯄ ꯉꯝꯃꯤ ꯍꯥꯏꯕꯁꯤꯅꯤ꯫ ꯗꯤ ꯑꯦꯟ ꯑꯦꯗꯨ ꯀꯛꯂꯕ ꯃꯐꯝꯗꯨꯗ ꯄꯨꯟꯁꯤꯒꯤ ꯀꯣꯗꯄꯨ ꯅꯧꯍꯧꯅ ꯏꯕꯗ ꯑꯔꯥꯏꯕ ꯑꯃ ꯑꯣꯏꯔꯝꯃꯤ꯫
CRISPF/Cas9 ꯅ ꯃꯤꯑꯣꯏꯕꯗ ꯀꯔꯤ ꯀꯥꯟꯅꯕ ꯄꯤꯒꯗꯧꯔꯤꯕ?
ꯆꯍꯤꯁꯤꯒꯤ ꯍꯧꯔꯛꯄꯗ, ꯄꯥꯔꯤ-ꯄꯨꯔꯤꯒꯤ ꯑꯣꯏꯅ ꯃꯤꯠ ꯇꯥꯡꯂꯛꯂꯕ ꯃꯤ ꯑꯃꯅ CRISPR/Cas9-ꯕꯦꯖꯗ ꯊꯦꯔꯥꯄꯤ ꯑꯃ ꯃꯍꯥꯛꯀꯤ ꯍꯛꯆꯥꯡꯗ ꯍꯛꯊꯦꯡꯅꯅ ꯀꯥꯞꯁꯤꯟꯈꯤꯕ ꯑꯍꯥꯟꯕ ꯃꯤꯁꯛ ꯑꯣꯏꯕ ꯉꯝꯈꯤ꯫ ꯖꯨꯟ ꯊꯥꯗ ꯖꯤꯟ-ꯏꯗꯤꯇꯤꯡ ꯀꯝꯄꯦꯅꯅꯤ CRISPR ꯊꯦꯔꯥꯄ꯭ꯌꯨꯇꯤꯛꯁꯅ ꯕꯤꯇꯥ ꯊꯂꯥꯁꯦꯃꯤꯌꯥꯅ ꯅꯥꯔꯕ ꯃꯤꯑꯣꯏ ꯑꯅꯤ ꯑꯃꯁꯨꯡ ꯁꯤꯀꯜ ꯁꯦꯜ ꯂꯥꯏꯅꯥꯅ ꯅꯥꯔꯕ ꯃꯤꯑꯣꯏ ꯑꯃꯕꯨ CRISPR ꯇꯦꯛꯅꯤꯛ ꯁꯤꯖꯤꯟꯅꯗꯨꯅ ꯃꯈꯣꯏꯒꯤ ꯕꯣꯟ ꯃꯦꯔꯣ ꯁ꯭ꯇꯦꯝ ꯁꯦꯜꯁꯤꯡꯕꯨ ꯏꯗꯤꯠ ꯇꯧꯈꯤꯕꯗꯒꯤ ꯃꯈꯥ ꯇꯥꯅ ꯏ ꯀꯥꯞꯄꯒꯤ ꯃꯊꯧ ꯇꯥꯗ꯭ꯔꯦ ꯍꯥꯏꯅ ꯂꯥꯎꯊꯣꯔꯛꯈꯤ꯫ ‘ꯀꯦꯃꯤꯁꯇ꯭ꯔꯤ ꯋꯔꯜꯗ’ ꯗ ꯑꯣꯛꯇꯣꯕꯔꯒꯤ ꯍꯦꯛ ꯍꯧꯔꯛꯄꯗ ꯐꯣꯡꯗꯣꯔꯛꯈꯤꯕ ꯄꯥꯎ ꯑꯃꯒꯤ ꯃꯇꯨꯡꯏꯟꯅ, ꯗꯣ. ꯗꯧꯗꯅꯥꯅ ꯑꯦꯃꯤꯌꯣꯇ꯭ꯔꯣꯐꯤꯛ ꯂꯦꯇꯔꯦꯜ ꯁ꯭ꯀꯦꯂꯣꯔꯤꯁ ꯂꯥꯌꯦꯡꯕꯒꯤ ꯊꯕꯛ ꯍꯧꯅꯅꯕꯒꯤꯗꯃꯛ ‘ꯁꯀ꯭ꯔꯥꯏꯕ ꯊꯦꯔꯥꯄ꯭ꯌꯨꯇꯤꯛꯁ’ ꯀꯧꯕ ꯑꯅꯧꯕ ꯀꯝꯄꯦꯅꯤ ꯑꯃ ꯍꯧꯗꯣꯛꯈ꯭ꯔꯦ꯫ ꯗꯣ. ꯗꯧꯗꯅꯥꯅ ‘ꯒꯂꯕꯦꯛꯁꯣꯁ꯭ꯃꯤꯊꯀ꯭ꯂꯥꯁꯟ’ ꯒ ꯈꯨꯠꯁꯝꯅꯗꯨꯅ ꯕꯥꯏꯑꯣꯇꯦꯛ ꯁ꯭ꯇꯥꯔꯠꯑꯞ ‘ꯃꯥꯝꯃꯣꯊ’ ꯀꯤ ꯃꯇꯦꯡꯅ ꯀꯣꯚꯤꯗ-19ꯒꯤ ꯃꯥꯌꯣꯛꯇ CRISPR ꯁꯤꯖꯤꯟꯅꯗꯨꯅ ꯏꯟꯐꯦꯛꯁꯟꯁꯤꯡꯕꯨ ꯈꯪꯗꯣꯛꯅꯕꯒꯤ ꯇꯦꯁꯠ ꯑꯃ ꯁꯦꯝꯒꯠꯄ ꯍꯧꯈ꯭ꯔꯦ ꯍꯥꯏꯅ ꯔꯣꯏꯇꯔꯖꯅ ꯄꯥꯎꯗꯝꯂꯛꯂꯤ꯫
ꯆꯍꯤꯁꯤꯃꯛꯇꯗ, ꯗꯤꯜꯂꯤꯒ ꯁꯤ ꯑꯦꯁ ꯑꯥꯏ ꯑꯥꯔ - INstiBtyBuT ꯑꯣꯐ ꯖꯤꯅꯣꯃꯤꯛꯁ ꯑꯦꯟꯗ ꯏꯟꯇꯤꯒ꯭ꯔꯦꯇꯤꯚ ꯕꯥꯏꯑꯣꯂꯣꯖꯤ (CSIR-IBIB) ꯅ ꯄꯨꯊꯣꯛꯈꯤꯕ ‘ꯐꯦꯂꯨꯗꯥ’ ꯍꯥꯏꯅ ꯃꯤꯡꯊꯣꯟꯕ ꯀꯣꯚꯤꯗ-19 ꯇꯦꯁꯇꯤꯡ ꯀꯤꯠ ꯑꯁꯤ CRISPR/Cas9 ꯁꯤꯁꯇꯝꯗ ꯌꯨꯝꯐꯝ ꯑꯣꯏꯕꯅꯤ꯫ ꯃꯁꯥꯒꯤ
ꯑꯣꯏꯅ ꯌꯨꯝ-ꯌꯨꯝꯗ ꯊꯤꯖꯤꯟꯕꯒꯤ ꯊꯕꯛ ꯄꯥꯏꯈꯠꯆꯥꯕ ꯌꯥꯕ, ‘ꯕꯥꯏꯑꯣ-ꯍꯦꯀꯤꯡ’ ꯀꯧꯕ ꯁꯕ-ꯀꯜꯆꯔ ꯇꯧꯕ
ꯌꯥꯕ, ꯕꯥꯏꯑꯣꯇꯦꯛꯅꯣꯂꯣꯖꯤꯒꯤ ꯊꯕꯛꯁꯤꯡꯗ ꯁꯤꯖꯤꯟꯅꯅꯕꯒꯗꯤꯃꯛ CRISPR - ꯕꯦꯖꯗ ꯀꯤꯠꯁꯤꯡ
ꯃꯥꯂꯦꯝꯒꯤ ꯀꯦꯊꯦꯜꯁꯤꯡꯗ ꯐꯪꯂꯦ꯫ ꯁꯦꯟꯁꯔ, ꯊꯝꯃꯣꯏꯒꯤ ꯂꯥꯏꯅꯥꯁꯤꯡ, ꯃꯦꯟꯇꯦꯜ ꯗꯤꯖꯤꯖꯁꯤꯡ ꯑꯃꯁꯨꯡ
ꯑꯩꯆ ꯑꯥꯏ ꯚꯤꯒꯨꯝꯕ ꯌꯥꯝꯅ ꯂꯨꯔꯕ ꯂꯥꯏꯅꯥꯁꯤꯡ lyaeZbd ꯁꯤꯁꯇꯝ ꯑꯁꯤꯅ ꯑꯆꯣꯕ ꯊꯧꯗꯥꯡ ꯂꯧꯔꯛꯀꯅꯤ
ꯍꯥꯏꯕꯁꯤ ꯊꯤꯖꯤꯜꯂꯤꯕ ꯀꯌꯥꯒꯤ ꯑꯆꯦꯠꯄ ꯊꯥꯖꯕꯅꯤ꯫ =

ꯑꯦꯗꯤꯇꯣꯔꯤꯌꯦꯜ Imphal, Wednesday, october 14, 2020 ꯌꯨꯝꯁꯀꯩꯁ, ꯃꯦꯔꯥꯒꯤ 27ꯅꯤ ꯄꯥꯟꯕ, ꯃꯥꯂꯤꯌꯥ ꯀꯨꯝꯁꯤꯡ 3418 obT\ꯂꯩ ꯃꯀꯩꯋ꯭ꯀ 2 HUEIYEN LANPAO ꯍꯨꯏꯌꯦꯟ ꯂꯥꯟꯄꯥꯎ
ꯌꯨꯝꯁꯀꯩꯁ, ꯑꯣꯛꯇꯣꯕꯔ 14, 2020, ꯏꯝꯐꯥꯜ
12 ꯁꯨꯕ ꯆꯍꯤ, 173 ꯁꯨꯕ ꯃꯁꯤꯡ
ꯗꯤ ꯁꯇ꯭ꯔꯤꯠꯁ ꯐꯣꯔ ꯄꯤꯄꯜ ꯆꯦꯂꯦꯟꯖ ꯍꯧꯗꯣꯛꯈꯤꯕ
ꯁꯤꯇꯤ ꯄꯨꯝꯅꯃꯛꯇ ꯈꯣꯡꯅ ꯆꯠꯂꯤꯕ ꯃꯤꯑꯣꯏꯁꯤꯡ ꯈꯨꯗꯣꯡꯆꯥꯍꯟꯅꯕ ꯊꯧꯔꯥꯡ
ꯃꯃꯥꯡ ꯊꯥꯗ ꯃꯤꯅꯤꯁꯇ꯭ꯔꯤ ꯑꯣꯐ ꯍꯥꯎꯖꯤꯡ ꯑꯦꯟꯗ ꯑꯔꯕꯥꯟ ꯑꯦꯐꯦꯌꯔꯁꯅ ꯀ꯭ꯂꯥꯏꯃꯦꯠ
ꯁ꯭ꯃꯥꯔꯠ ꯁꯤꯇꯤꯖ ꯑꯦꯁꯦꯁꯃꯦꯟꯠ ꯐ꯭ꯔꯦꯝꯋꯔꯛ (ꯁꯤ ꯑꯦꯁ ꯁꯤ ꯑꯦ ꯑꯦꯐ) 2.0 ꯂꯣꯟꯆ ꯇꯧꯈꯤꯕꯒ ꯂꯣꯏꯅꯅ ‘ꯁꯇ꯭ꯔꯤꯠꯇꯁ ꯐꯣꯔ ꯄꯤꯄꯜ ꯆꯦꯂꯦꯟꯖ’ ꯍꯧꯔꯣꯛꯈꯤ꯫ ꯑꯏꯪ- ꯑꯁꯥꯒꯤ ꯈꯜ ꯀꯥꯏꯊꯔꯛꯂꯤꯕꯁꯤ ꯃꯥꯌꯣꯛꯅꯅꯕꯒꯤ ꯄꯥꯟꯗꯝꯗ ‘ꯁ꯭ꯃꯥꯔꯠ ꯁꯤꯇꯤꯖ ꯃꯤꯁꯟ’ ꯅ ꯄꯥꯏꯈꯠꯂꯤꯕ ꯊꯧꯔꯥꯡ ꯑꯁꯤꯒꯤ ꯃꯇꯥꯡꯗ ꯌꯨꯅꯤꯌꯟ ꯃꯤꯅꯤꯁꯇꯔ ꯑꯣꯐ ꯁ꯭ꯇꯦꯠ ꯐꯣꯔ ꯍꯥꯎꯖꯤꯡ ꯑꯦꯟꯗ ꯑꯔꯕꯥꯟ ꯑꯦꯐꯦꯌꯔꯁ ꯍꯥꯔꯗꯤꯞ ꯁꯤꯡꯍ ꯄꯨꯔꯤꯅ ꯍꯥꯏꯈꯤ, ꯀꯦꯇꯔꯤꯒꯤ ꯃꯉꯥ- ꯑꯦꯅꯖꯔꯤ ꯑꯦꯟꯗ ꯒ꯭ꯔꯤꯟ ꯕꯤꯜꯗꯤꯡ; ꯑꯔꯕꯥꯟ ꯄ꯭ꯂꯥꯅꯤꯡ, ꯒ꯭ꯔꯤꯟ ꯀꯣꯚꯔ ꯑꯦꯟꯗ ꯕꯥꯏꯑꯣꯗꯥꯏꯚꯔꯁꯤꯇꯤ; ꯃꯣꯕꯤꯂꯤꯇꯤ ꯑꯦꯟꯗ ꯑꯦꯌꯔ ꯀ꯭ꯋꯥꯂꯤꯇꯤ; ꯋꯥꯇꯔ ꯃꯦꯅꯦꯖꯃꯦꯟꯠ ꯑꯃꯁꯨꯡ ꯋꯦꯁꯠ ꯃꯦꯅꯦꯖꯃꯦꯟꯠꯇ ꯌꯨꯝꯐꯝ ꯑꯣꯏꯔꯒ ꯁ꯭ꯃꯥꯔꯠ ꯁꯤꯇꯤꯖ ꯑꯦꯁꯦꯁꯃꯦꯟꯠ ꯐ꯭ꯔꯦꯝꯋꯔꯛ ꯁꯦꯝꯒꯅꯤ꯫ ꯃꯤꯅꯤꯁꯇ꯭ꯔꯤ ꯑꯣꯐ ꯍꯥꯎꯖꯤꯡ ꯑꯦꯟꯗ ꯑꯔꯕꯥꯟ ꯑꯦꯐꯦꯌꯔꯁꯅ ꯊꯣꯔꯥꯡ ꯑꯁꯤ ꯂꯧꯁꯠꯄꯗ ꯅꯦꯁꯅꯜ ꯏꯟꯁ꯭ꯇꯤꯇ꯭ꯌꯨꯠ ꯑꯣꯐ ꯑꯔꯕꯥꯟ ꯑꯦꯐꯦꯌꯔꯁ (ꯑꯩꯟ ꯑꯥꯏ ꯌꯨ ꯑꯦ)ꯒꯤ ꯃꯈꯑꯗ ꯂꯩꯕ ‘ꯀ꯭ꯂꯥꯏꯃꯦꯇ ꯁꯦꯟꯇꯔ ꯐꯣꯔ ꯁꯤꯇꯤꯖ’ꯅ ꯃꯇꯦꯡ ꯄꯥꯡꯒꯗꯧꯔꯤ꯫ ꯑꯃꯔꯣꯝꯗ, ꯃꯤꯅꯤꯁꯇ꯭ꯔꯤꯅ ꯁꯤꯇꯤ ꯄꯨꯝꯅꯃꯛꯇ ꯈꯣꯡꯅ ꯆꯠꯂꯤꯕ ꯃꯤꯑꯣꯏꯁꯤꯡꯒꯤ ꯈꯨꯗꯣꯡꯆꯥꯅꯕꯒꯤꯗꯃꯛ ‘ꯁꯇ꯭ꯔꯤꯠꯁ ꯐꯣꯔ ꯄꯤꯄꯜ ꯆꯦꯂꯦꯟꯖ’ꯁꯨ ꯍꯧꯗꯣꯛꯈꯤ꯫ ꯊꯧꯔꯥꯡ ꯑꯁꯤꯗ ꯑꯋꯥꯡ-ꯅꯣꯡꯄꯣꯛ ꯂꯝꯗꯝꯒꯤ ꯁꯤꯇꯤ ꯅꯤꯄꯥꯜ- ꯏꯝꯐꯥꯜ, ꯒꯨꯋꯥꯍꯥꯇꯤ, ꯑꯒꯔꯇꯥꯂꯥ, ꯁꯤꯂꯣꯡ, ꯑꯥꯏꯖꯣꯜ, ꯒꯦꯡꯇꯣꯛ, ꯀꯣꯍꯤꯃꯥ ꯑꯃꯗꯤ ꯏꯇꯥꯅꯒꯔꯁꯨ ꯁꯔꯨꯛ ꯌꯥꯔꯤ꯫ ꯂꯩꯕꯥꯛꯀꯤ ꯇꯣꯉꯥꯟ-ꯇꯣꯉꯥꯟꯕ ꯁꯤꯇꯤ 140ꯅ ꯃꯈꯜ-ꯃꯈꯥ ꯀꯌꯥꯒꯤ ꯊꯣꯔꯥꯡꯁꯤꯡ ꯂꯧꯈꯠꯇꯨꯅ ꯃꯤ ꯆꯤꯟꯕ ꯁꯤꯇꯤ ꯄꯨꯝꯅꯃꯛ ꯈꯣꯡꯅ ꯆꯇꯅꯕꯒꯤ ꯃꯐꯝ ꯅꯤꯡꯊꯤꯅ ꯂꯩꯍꯟꯅꯕ ꯍꯣꯠꯅꯒꯗꯕꯅꯤ꯫ ꯁꯤꯡꯊꯥꯅꯤꯡꯉꯥꯏ ꯑꯣꯏꯕ ꯋꯥꯈꯜꯂꯣꯟ ꯁꯤꯖꯤꯟꯟꯔꯒ ꯁꯦꯜ ꯏꯆꯪ-ꯆꯪꯗꯅ ꯄꯥꯏꯈꯠꯀꯗꯧꯔꯤꯕ ꯊꯧꯔꯥꯡ ꯑꯁꯤꯒꯤ ꯃꯈꯥꯗ ꯃꯤꯅꯤꯁꯇꯔꯕꯤꯅ ꯁꯤꯇꯤꯁꯤꯡꯒꯤ ꯃꯀꯣꯛ-ꯃꯊꯪ ꯈꯜꯂꯒꯅꯤ꯫ ꯚꯤꯗꯤꯑꯣ ꯀꯟꯐꯔꯦꯟꯁꯀꯤ ꯈꯨꯠꯊꯥꯡꯗ ꯌꯨꯅꯤꯌꯟ ꯃꯤꯅꯤꯁꯇꯔꯕꯤꯅ ꯀ꯭ꯂꯥꯏꯃꯦꯠ ꯁ꯭ꯃꯥꯔꯠ ꯁꯤꯇꯤꯖ ꯑꯦꯁꯦꯁꯃꯦꯟꯠ ꯐ꯭ꯔꯦꯝꯋꯔꯛ ꯑꯃꯁꯨꯡ ꯁꯇ꯭ꯔꯤꯠꯇ ꯐꯣꯔ ꯄꯤꯄꯜ ꯆꯦꯂꯦꯟ ꯍꯧꯗꯣꯛꯈꯤꯕꯒꯤ ꯊꯧꯔꯝ adud ꯃꯤꯅꯤꯁꯇ꯭ꯔꯤ ꯑꯣꯐ ꯍꯥꯎꯖꯤꯡ ꯑꯦꯟꯗ ꯑꯔꯕꯥꯟ ꯑꯦꯐꯦꯌꯔꯁꯀꯤ ꯁꯦꯀ꯭ꯔꯦꯇꯔꯤ ꯗꯨꯔꯒꯥ ꯁꯪꯀꯔ ꯃꯤꯁ꯭ꯔꯥ; ministriB ꯑꯣꯐ ꯏꯟꯚꯥꯏꯔꯅꯃꯦꯟꯠ, ꯐꯣꯔꯦꯁꯠ ꯑꯦꯅꯗ ꯀ꯭ꯂꯥꯏꯃꯦꯠ ꯆꯦꯟꯖꯒꯤ ꯁꯤꯅꯤꯌꯔ ꯑꯣꯐꯤꯁꯜꯁꯤꯡ; ꯁ꯭ꯇꯦꯠ ꯑꯃꯗꯤ ꯌꯨꯅꯤꯌꯟ ꯇꯦꯔꯤꯇꯣꯔꯤ ꯄꯨꯝꯅꯃꯛꯀꯤ ꯑꯔꯕꯥꯟ ꯗꯤꯚꯂꯞꯃꯦꯟꯠ ꯁꯦꯀ꯭ꯔꯦꯇꯔꯤꯁꯤꯡ; ꯁ꯭ꯃꯥꯔꯠ ꯁꯤꯇꯤꯖ ꯃꯤꯁꯟꯒꯤ ꯁ꯭ꯇꯦꯠ ꯃꯤꯁꯟ ꯗꯤꯔꯦꯛꯇꯔꯁꯤꯡ; ꯃ꯭ꯌꯨꯅꯤꯁꯤꯄꯥꯜ ꯀꯝꯃꯤꯁ꯭ꯅꯔꯁꯤꯡ ꯑꯃꯁꯨꯡ ꯃꯔꯨ ꯑꯣꯏꯕ ꯁ꯭ꯇꯦꯛꯍꯣꯜꯗꯔ ꯄꯨꯝꯅꯃꯛ ꯁꯔꯨꯛ ꯌꯥꯈꯤ꯫
ꯀꯣꯚꯤꯗ-19ꯒꯤ ꯂꯥꯏꯆꯠ ꯂꯥꯛꯁꯤꯟꯅꯕꯒꯤ ꯄꯥꯟꯗꯝꯗ ꯊꯝꯂꯛꯈꯤꯕ ꯂꯣꯛꯗꯥꯎꯟ
ꯂꯧꯊꯣꯛꯈꯤꯕꯗꯒ ꯂꯣꯏꯅꯅ ꯁꯤꯇꯤ ꯄꯨꯝꯅꯃꯛꯇ ꯁꯣꯁꯜ ꯗꯤꯁꯇꯦꯟꯁꯤꯡ ꯉꯥꯛꯅ ꯆꯠꯊꯣꯛ-ꯆꯠꯁꯤꯟ ꯇꯧꯕꯗ ꯈꯨꯗꯣꯡꯆꯥꯗꯕ ꯃꯥꯌꯣꯛꯅꯔꯤ꯫ ꯄꯕ꯭ꯂꯤꯛ ꯇ꯭ꯔꯑꯟꯁꯄꯣꯔꯠ ꯁꯤꯁꯇꯝ ꯃꯇꯤꯛ ꯆꯥꯗꯕ, ꯂꯩꯔꯛ-ꯈꯨꯜꯂꯛ ꯑꯌꯥꯝꯕ ꯏꯈꯨ-ꯈꯨꯕ ꯑꯝꯁꯨꯡ ꯀꯩꯊꯦꯜ ꯄꯨꯝꯅꯃꯛ ꯃꯤ ꯆꯤꯟꯕ ꯃꯔꯝꯅ ꯆꯠꯊꯣꯛ-ꯆꯠꯁꯤꯟ ꯇꯧꯕꯗ ꯈꯨꯗꯣꯡꯆꯥꯗꯕꯅꯤ꯫ ꯕꯣꯒꯣꯇꯥ, ꯕꯔꯂꯤꯟ ꯑꯃꯁꯨꯡ ꯃꯤꯂꯟꯒꯨꯃꯕ ꯁꯤꯇꯤ ꯈꯔꯗ ꯂꯝꯕꯤꯒꯤ ꯐꯤꯚꯝ ꯅꯧꯅ ꯁꯦꯝꯗꯣꯛ ꯁꯥꯗꯣꯛꯂꯒ ꯈꯣꯡꯅ ꯆꯠꯂꯤꯕ ꯃꯤꯑꯣꯏꯁꯤꯡ ꯑꯃꯁꯨꯡ ꯁꯥꯏꯀꯜ ꯊꯧꯔꯤꯕꯁꯤꯡꯒꯤ ꯈꯨꯗꯣꯡꯆꯥꯕ ꯊꯧꯔꯥꯡ ꯂꯧꯈꯠꯄ ꯂꯩꯈ꯭ꯔꯦ꯫ lEBaK ꯑꯁꯤꯗꯁꯨ ꯇꯉꯥꯏꯐꯗꯕ ꯐꯤꯚꯝ ꯑꯃ ꯂꯥꯛꯄꯗꯒꯤ ꯃꯔꯨ ꯑꯣꯏꯕ ꯁꯤꯇꯤꯁꯤꯡꯗ ‘ꯁ꯭ꯔꯤꯠ ꯐꯣꯔ ꯄꯤꯄꯜ ꯆꯦꯂꯦꯟꯖ’ꯒꯤ ꯊꯧꯔꯥꯡ ꯑꯁꯤ ꯂꯧꯈꯠꯂꯛꯄꯅꯤ꯫ ꯃꯥꯂꯦꯝꯒꯤ ꯑꯣꯏꯅ ꯃꯤ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯆꯤꯟꯕ ꯁꯤꯇꯤꯁꯤꯡꯒꯤ ꯃꯅꯨꯡꯗ ꯕꯦꯡꯒꯂꯨꯔꯨꯅ ꯃꯀꯣꯛ ꯏꯊꯪ-ꯊꯪꯅ ꯂꯩꯔꯤ꯫ ꯃꯤ ꯀꯥ-ꯍꯦꯟꯅ ꯆꯤꯟꯕ ꯑꯇꯩ ꯁꯤꯇꯤꯁꯤꯡꯗꯤ ꯃꯊꯪꯁꯤꯠꯅ ꯃꯅꯤꯂꯥ, ꯕꯣꯒꯣꯇꯥ, ꯃꯨꯝꯕꯥꯏ, ꯄꯨꯅꯦ, ꯃꯣꯁꯀꯣ, ꯂꯤꯃꯥ, ꯅ꯭ꯌꯨ ꯗꯤꯜꯂꯤ, ꯏꯁ꯭ꯇꯥꯟꯕꯨꯜ, ꯖꯀꯥꯔꯇꯥ ꯑꯃꯁꯨꯡ ꯕꯦꯡꯀꯣꯛꯅꯆꯤꯡꯕꯅꯤ꯫ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯃꯤ ꯆꯤꯅꯕꯒꯤ ꯃꯇꯥꯡꯗ ꯃꯥꯂꯦꯝꯒꯤ ꯇꯣꯉꯥꯟ-ꯇꯣꯉꯥꯟꯕ ꯂꯩꯕꯥꯛ 57ꯀꯤ ꯁꯤꯇꯤ 415ꯒ ꯆꯥꯡꯗꯝꯅꯕꯗ ꯕꯦꯡꯒꯂꯨꯔꯨꯅ ꯃꯀꯣꯛ ꯏꯊꯪ-ꯊꯪꯕꯗ ꯂꯩꯕꯅꯤ꯫ ꯀꯅꯥꯒꯨꯃꯕ ꯃꯤꯑꯣꯏ ꯑꯃꯅ ꯁꯤꯇꯤ ꯑꯁꯤꯗ ꯄꯨꯡ 1 ꯒꯥꯔꯤ ꯊꯧꯕꯗ ꯃꯤ ꯆꯤꯟꯕꯒꯅ ꯃꯔꯝ ꯑꯣꯏꯔꯒ ꯃꯤꯅꯠ 58 ꯑꯔꯦꯝꯕꯗ ꯃꯇꯝ ꯃꯥꯡꯂꯤ꯫ ꯅꯨꯡꯊꯤꯜꯗ ꯀꯥ-ꯍꯦꯟꯅ ꯃꯤ ꯆꯤꯟꯕ ꯇꯥꯟꯖꯥꯁꯤꯗ ꯃꯤꯅꯤꯠ 70 ꯐꯥꯎꯕ ꯑꯔꯦꯝꯗ ꯃꯇꯝ ꯃꯥꯡꯕ ꯌꯥꯎꯔꯤ꯫ ‘ꯇꯣꯝꯇꯣꯝ ꯔꯣꯗ ꯏꯟꯗꯦꯛꯁ’ ꯀꯤ ꯃꯇꯨꯡ ꯏꯟꯅ ꯏꯟꯗꯤꯌꯥꯗ ꯃꯤꯑꯣꯏ ꯑꯃꯅ ꯆꯍꯤ ꯑꯃꯗ ꯃꯤ ꯆꯤꯟꯕꯅ ꯃꯔꯝ ꯑꯣꯏꯒ ꯃꯥꯡꯂꯤꯕ ꯃꯇꯝꯁꯤ ꯄꯨꯡ 243ꯅꯤ꯫ ꯏꯟꯗꯤꯌꯥꯒꯤ ꯑꯅꯤꯁꯨꯕ ꯃꯤ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯆꯤꯟꯕ ꯁꯤꯇꯤ ꯃꯨꯝꯕꯥꯏꯅꯤ꯫ ꯁꯤꯇꯤ ꯑꯁꯤꯗ ꯀꯅꯥꯒꯨꯃꯕꯅ ꯄꯨꯡ 1 ꯒꯥꯔꯤ ꯊꯧꯔꯒ ꯆꯠꯄꯗ ꯃꯤꯅꯤꯠ 62 ꯗꯤ ꯑꯔꯦꯝꯕꯗ ꯃꯇꯝ ꯃꯥꯡꯂꯤ꯫ ꯆꯍꯤ ꯑꯃꯗ ꯄꯥꯊꯣꯛꯂꯒꯅ ꯅꯨꯃꯤꯠ 8 ꯒ ꯄꯨꯡ 17 ꯑꯔꯦꯝꯕꯗ ꯃꯇꯝ ꯃꯥꯡꯂꯤ꯫ ꯂꯩꯕꯥꯛꯀꯤ ꯀꯣꯅꯨꯡ ꯗꯤꯜꯂꯤꯒꯤ ꯐꯤꯉꯝꯁꯨ ꯑꯗꯨ ꯃꯉꯥꯏꯔꯦ꯫ ꯂꯝꯕꯤ ꯄꯥꯛꯊꯣꯛꯅꯕꯒꯤ ꯂꯣꯏꯅꯅ ꯐꯨꯠ ꯕ꯭ꯔꯤꯗꯖ ꯑꯃꯗꯤ ꯑꯟꯗꯔꯒ꯭ꯔꯥꯎꯟꯗ ꯔꯨꯠ ꯀꯌꯥ ꯁꯦꯝꯂꯕꯁꯨ ꯃꯤ ꯆꯤꯟꯕꯒꯤ ꯆꯥꯉ ꯍꯟꯊꯍꯟꯕ ꯉꯝꯗ꯭ꯔꯤ꯫ ꯁꯤꯇꯤ ꯑꯗꯤꯁ ꯃꯤ ꯆꯤꯟꯕꯅ ꯃꯔꯝ ꯑꯣꯏꯔꯒ ꯀꯅꯥꯒꯨꯝꯅꯕ ꯃꯤꯑꯣꯏ ꯆꯠꯊꯣꯛ-ꯆꯠꯁꯤꯟ ꯇꯧꯕꯗ ꯆꯍꯤ ꯈꯨꯗꯤꯡꯒꯤ ꯅꯨꯃꯤꯠ 7ꯅꯒ ꯄꯨꯡ 22 ꯑꯔꯦꯝꯕ ꯃꯇꯝ ꯃꯥꯡꯂꯤ꯫ ꯁꯦꯟꯇꯔ ꯐꯣꯔ ꯁꯥꯏꯟꯁ ꯑꯦꯟꯗ ꯏꯟꯚꯥꯏꯔꯟꯃꯦꯟꯠ (ꯁꯤ ꯑꯦꯁ ꯏ) ꯒꯤ ꯔꯤꯄꯣꯔꯠꯅ ꯍꯥꯏ, ꯃꯤ ꯆꯤꯟꯕꯗꯒꯤ ꯒꯥꯔꯤ ꯊꯧꯕꯗ ꯃꯇꯝ ꯀꯥ-ꯍꯦꯟꯅ ꯆꯪꯕ ꯃꯔꯝꯅ ꯆꯍꯤꯗ ꯂꯨꯄꯥ ꯀ꯭ꯔꯣꯔ54,000 ꯔꯣꯝ ꯑꯔꯦꯝꯕꯗ ꯃꯥꯡꯂꯤ꯫ ꯃꯅꯤꯄꯨꯔꯒꯤ ꯑꯣꯏꯅꯁꯨ ꯏꯝꯐꯥꯜ ꯁꯤꯗꯤꯗꯤ ꯂꯥꯏꯔꯗꯅ ꯃꯔꯨ AOib ꯂꯝꯕꯤꯁꯤꯡ ꯑꯗꯃꯤ ꯂꯩꯔꯛ ꯈꯨꯜꯂꯛ ꯄꯨꯝꯅꯃꯛ ꯃꯤ ꯀꯥ-ꯍꯦꯟꯅ ꯆꯤꯟꯕꯒꯤ ꯑꯋꯥꯕ ꯃꯥꯌꯣꯛꯅꯔꯤ꯫ ꯂꯝꯕꯤ ꯃꯁꯤꯡ ꯍꯦꯟꯒꯠꯍꯟꯕꯅ ꯃꯤ ꯆꯤꯟꯕꯒꯤ ꯆꯥꯡ ꯍꯟꯊꯍꯟꯕ ꯉꯝꯂꯣꯏ ꯍꯥꯏꯅ ꯄꯜꯂꯗꯨꯅ ꯁꯤ ꯑꯦꯁ ꯏꯒꯤ ꯔꯤꯄꯣꯔꯠꯅ ꯍꯥꯏ, ꯁ꯭ꯇꯦꯠ ꯑꯃꯗꯤ ꯌꯨꯅꯤꯌꯟ ꯇꯦꯔꯤꯇꯣꯔꯤ ꯄꯨꯝꯅꯃꯛꯇ ꯄꯕ꯭ꯂꯤꯛ ꯇ꯭ꯔꯥꯟꯁꯄꯣꯔꯠ ꯁꯤꯁꯇꯝꯒꯤ ꯐꯤꯚꯝ ꯐꯒꯠꯍꯟꯕꯒ ꯂꯣꯏꯅꯅ ꯂꯝꯕꯤꯗ ꯈꯣꯡꯅ cTnbgii ꯃꯐꯝ ꯅꯤꯡꯊꯤꯅ ꯁꯦꯝꯒꯠꯄ ꯇꯉꯥꯏꯐꯦꯗꯦ꯫ ꯕ꯭ꯔꯥꯖꯤꯜꯒꯤ ꯁꯥꯎ ꯄꯣꯂꯣꯗ ꯊꯧꯔꯥꯡ ꯑꯁꯤ ꯂꯧꯈꯠꯄꯗꯒꯤ ꯍꯥꯟꯅꯒ ꯆꯥꯡꯗꯝꯅꯕꯗ ꯃꯤ ꯆꯤꯟꯕꯒꯤ ꯆꯥꯡ ꯍꯟꯊꯍꯟꯕ ꯉꯝꯂꯦ꯫ ꯃꯤꯄꯨꯝ ꯈꯨꯗꯤꯡꯃꯛ ꯃꯁꯥ-ꯃꯁꯥꯒꯤ ꯒꯥꯔꯤ ꯊꯧꯗꯨꯅ ꯆꯠꯄꯒꯤ ꯃꯍꯨꯠꯇ ꯄꯕ꯭ꯂꯤꯛ ꯇ꯭ꯔꯥꯟꯁꯄꯣꯔꯠ ꯁꯤꯁꯇꯝ ꯁꯤꯖꯤꯟꯅꯔꯕꯗꯤ ꯃꯤ ꯆꯤꯟꯕꯒꯤ ꯆꯥꯡ ꯍꯟꯊꯔꯛꯄ ꯇꯥꯕꯅꯤ꯫ ꯑꯇꯣꯞꯄ ꯋꯥꯐꯝ ꯑꯃꯅ ꯂꯝꯕꯤ ꯅꯥꯀꯜꯗ ꯒꯥꯔꯤꯁꯤꯡ
ꯈꯥꯝꯖꯤꯟꯗꯨꯅ ꯊꯝꯕ ꯑꯃꯁꯨꯡ ꯅꯨꯡ-ꯂꯩꯉꯣꯏꯅꯆꯤꯡꯕ ꯄꯩꯁꯤꯟꯕꯒꯤ ꯃꯇꯥꯡꯗꯅꯤ꯫ ꯂꯩꯉꯥꯛꯀꯤ ꯃꯔꯤ ꯂꯩꯅꯕ ꯑꯣꯊꯣꯔꯤꯇꯤꯁꯤꯡꯅ ꯍꯤꯔꯝ ꯑꯈꯤꯗ ꯑꯈꯟꯅꯕ ꯃꯤꯠꯌꯦꯡ ꯆꯪꯕꯒ ꯂꯣꯏꯅꯅ ‘ꯁꯇ꯭ꯔꯤꯠꯁ ꯐꯣꯔ ꯆꯦꯂꯦꯟꯅ’ ꯃꯥꯏ ꯄꯥꯛꯍꯟꯅꯕ ꯍꯣꯠꯅꯐꯝ ꯊꯣꯛꯏ꯫

ꯄꯥꯎꯆꯦ ꯑꯁꯤꯗ ꯐꯣꯡꯖꯔꯤꯕ ꯋꯥꯔꯦꯡꯁꯤꯡ ꯑꯁꯤꯒꯤ ꯋꯥꯈꯜ, ꯃꯤꯠꯌꯦꯡ ꯑꯏꯕ ꯃꯁꯥ ꯃꯁꯥꯒꯤꯅꯤ꯫ ꯄꯥꯎꯆꯦ ꯑꯁꯤꯒ ꯄꯥꯎꯆꯦ ꯑꯁꯤꯒꯤ ꯋꯥꯈꯜꯂꯣꯟ ꯑꯃꯁꯨꯡ ꯃꯤꯠꯌꯦꯡꯒ ꯊꯣꯏꯗꯣꯛꯅ ꯃꯔꯤ ꯂꯩꯅꯗꯦ꯫

ꯍꯨꯏꯌꯦꯟ ꯂꯥꯟꯄꯥꯎ ꯂꯤꯇꯔꯦꯔꯤ ꯀ꯭ꯋꯤꯖ - 3
1| ꯂꯝꯗꯝ ꯑꯁꯤꯒꯤ ꯁꯛꯅꯥꯏꯔꯕ ꯀꯕꯤ ꯑꯃꯒꯤ ꯑꯐꯥꯎꯕ ꯁꯩꯔꯦꯡ ꯑꯃꯗꯒꯤ ꯂꯧꯊꯣꯔꯛꯄ ꯄꯔꯦꯡꯁꯤꯡ ꯑꯁꯤ ꯀꯔꯤ ꯂꯥꯏꯔꯤꯛꯇ ꯌꯥꯎꯕ, ꯀꯔꯤ
ꯁꯩꯔꯦꯡꯗꯒꯤꯅꯣ ꯍꯥꯏꯌꯨ꯫
“ꯅꯨꯡꯁꯤ-ꯈꯣꯡꯐꯝ ꯑꯍꯥꯟꯕ ꯄꯥꯝꯃꯨ ꯅꯪꯒꯤ ꯀꯥꯗꯅꯤ;
ꯅꯨꯡꯁꯤ-ꯁꯩꯁꯛ ꯑꯍꯥꯟꯕ ꯄꯥꯝꯃꯨ ꯅꯪꯒꯤ ꯅꯥꯗꯅꯤ...
ꯆꯤꯡꯒꯤ ꯈꯣꯏꯃꯨ ꯁꯥꯍꯨꯜ ꯇꯝ ꯅꯨꯡꯁꯤ-ꯀꯥꯏꯍꯧ ꯁꯩꯔꯦꯡ ꯂꯦꯡ,
ꯍꯦꯝꯃꯣꯏꯅꯖ ꯃꯨꯅ ꯌꯦꯡ ꯍꯦꯗꯧꯟꯖ ꯆꯤꯡꯅ ꯌꯦꯡ,
ꯅꯥꯞꯄꯆꯤꯛꯅ ꯅꯪꯒꯤ ꯀꯥ ꯁꯛꯂꯝꯂꯦꯗꯣ ꯀꯌꯥ ꯉꯪ,
ꯅꯨꯡꯁꯤ-ꯈꯨꯗꯣꯜ ꯐꯪꯕꯔꯥ ꯂꯩꯁꯤꯜ ꯂꯩꯁꯤꯜ ꯂꯩꯈꯣꯡ ꯁꯪ!
ꯅꯣꯡꯆꯨꯞ ꯆꯤꯡꯒꯤ ꯀꯣꯔꯧ ꯑꯣꯏ ꯈꯨꯅꯤꯡ ꯃꯣꯏꯗꯣꯟ ꯀꯥꯡꯅ ꯀꯥꯡ
ꯈꯥꯡꯂꯝꯂꯦꯗꯣ ꯀꯌꯥꯝꯃ ꯅꯨꯡꯁꯤ, ꯅꯪꯒꯤ ꯈꯔꯥꯏ ꯂꯥꯡ!”
2| “ꯃꯗꯟ ꯀꯥꯝ ꯑꯃꯁꯨꯡ ꯆꯤꯟꯇꯥꯃꯅꯤ ꯁ꯭ꯋꯌꯝꯕꯔ” ꯍꯥꯏꯕ ꯐꯥꯎꯔꯕ ꯂꯥꯏꯔꯤꯛꯁꯤ ꯃꯅꯤꯄꯨꯔꯤꯗ ꯒꯣꯀꯨꯜꯆꯥꯟꯗ ꯁꯤꯡꯍꯅ ꯍꯟꯗꯣꯛꯄꯅꯤ꯫
ꯆꯤꯟꯊꯥꯡ ꯋꯥꯔꯤꯗꯒꯤ ꯂꯥꯏꯔꯤꯛ ꯑꯣꯏꯅ ꯏꯊꯣꯛꯈꯤꯕ ꯑꯏꯕꯗꯨ ꯀꯅꯥꯅꯣ
ꯑꯃꯗꯤ ꯀꯔꯤ ꯂꯝꯒꯤ ꯋꯥꯔꯤꯗ ꯌꯨꯝꯐꯝ ꯑꯣꯏꯕ ꯂꯥꯏꯔꯤꯛꯅꯣ?
3| ꯃꯍꯥꯇꯃꯥ ꯒꯥꯟꯙꯤꯒꯤ ꯑꯣꯇꯣꯕꯥꯏꯑꯣꯒ꯭ꯔꯥꯐꯤꯗꯨ ꯃꯅꯤꯄꯨꯔꯤꯗ ꯏꯍꯥꯟ ꯍꯥꯟꯅ ꯀꯅꯥꯅ ꯀꯔꯤ ꯃꯃꯤꯡ ꯍꯥꯏꯅ ꯊꯣꯟꯗꯨꯅ ꯍꯟꯗꯣꯛꯈꯤꯕꯒꯦ?
4| ꯃꯅꯤꯄꯨꯔꯤ ꯁꯥꯍꯤꯇ꯭ꯌ ꯄꯔꯤꯁꯠꯅ ꯁꯥꯍꯤꯇ꯭ꯌꯒꯤ ꯂꯝꯗ ꯄꯤꯕ “ꯖꯥꯃꯤꯅꯤ ꯁꯨꯟꯗꯔ ꯒꯨꯍ ꯒꯣꯜꯗ ꯃꯦꯗꯜ” ꯑꯁꯤ ꯌꯥꯝꯅ ꯂꯤꯔꯕ ꯑꯃꯁꯨꯡ
ꯏꯀꯥꯏꯈꯨꯝꯅꯅꯤꯡꯉꯥꯏ ꯑꯣꯏꯕ ꯃꯅꯥꯅꯤ꯫ ꯃꯅꯥ ꯑꯁꯤ ꯏꯍꯥꯟ ꯍꯥꯟꯅ ꯀꯅꯥꯅ
ꯐꯪꯈꯤꯕꯒꯦ?
5| ꯑꯦꯂꯥꯡꯕꯝ ꯅꯤꯂꯀꯥꯟꯇ ꯁꯤꯡꯍꯒꯤ ꯃꯃꯤꯡ ꯆꯠꯂꯕ ꯁꯩꯔꯦꯡ “ꯅꯤꯡꯊꯧꯈꯣꯡꯒꯤ ꯆꯟꯗ꯭ꯔꯁꯈꯤ” ꯍꯥꯏꯕꯁꯤ ꯑꯐꯥꯎꯕ ꯀꯕꯤ ꯑꯃꯒꯤ ꯃꯃꯤꯡ ꯌꯥꯝꯅ ꯆꯠꯄ
ꯁꯩꯔꯦꯡ ꯑꯃꯅ ꯏꯊꯤꯜ ꯄꯤꯕꯅꯤ ꯍꯥꯏꯅ ꯑꯈꯪ ꯑꯍꯩꯁꯤꯡꯅ ꯍꯥꯏꯅꯕ ꯁꯩꯔꯦꯡꯗꯨ
krino? knan Ibno?

ꯃꯊꯛꯇ ꯄꯤꯔꯤꯕ ꯋꯥꯍꯪꯁꯤꯡ ꯑꯁꯤꯒꯤ ꯄꯥꯎꯈꯨꯝ ꯑꯣꯛꯇꯣꯕꯔ 15, ꯁꯒꯣꯜꯁꯦꯟ
ꯅꯨꯃꯤꯠꯀꯤ ꯑꯌꯨꯛ ꯄꯨꯡ 11 ꯐꯥꯎꯕꯒꯤ ꯃꯅꯨꯡꯗ ꯄꯥꯎꯆꯦ ꯑꯁꯤꯒꯤ ꯑꯣꯐꯤꯁꯇ
nTtrBg I-meL hueiyenliteraryquiz@gmail.com sid meL
ꯑꯣꯏꯅ ꯊꯥꯕꯤꯔꯛꯄ ꯌꯥꯒꯅꯤ꯫ ꯄꯥꯎꯈꯨꯝ ꯄꯤꯕꯤꯔꯛꯄ/ꯊꯥꯕꯤꯔꯛꯄ ꯃꯇꯝꯗ ꯃꯤꯡ, ꯂꯩꯐꯝ, ꯃꯍꯩꯒꯤ ꯊꯥꯛ ꯑꯝꯁꯨꯡ ꯀꯟꯇꯦꯛꯠ ꯅꯝꯕꯔ ꯃꯌꯦꯛ ꯁꯦꯡꯅ ꯏꯕꯤꯔꯛꯎ꯫
ꯋꯥꯍꯪ ꯈꯨꯗꯤꯡꯃꯛꯀꯤ ꯄꯥꯎꯈꯨꯝ ꯆꯨꯝꯅ ꯅꯠꯇ꯭ꯔꯒ ꯃꯁꯤꯡ ꯌꯥꯝꯅ ꯆꯨꯝꯅ ꯄꯤꯕꯤꯔꯛꯄ ꯃꯤꯑꯣꯁꯤꯡ ꯑꯗꯨꯒꯤ ꯗ꯭ꯔꯣ ꯑꯣꯠꯆꯔꯒ ꯂꯥꯏꯕꯛ ꯐꯕ ꯃꯤꯁꯛ ꯑꯃ ꯈꯟꯖꯒꯅꯤ꯫
ꯂꯣꯏꯅꯅ ꯈꯜꯂꯕ ꯃꯤꯁꯛ ꯑꯈꯨꯗ ꯃꯅꯥ ꯄꯤꯖꯒꯅꯤ꯫

ꯁ꯭ꯄꯣꯔꯠꯁ ꯁꯥꯏꯀꯣꯂꯣꯖꯤ ꯑꯁꯤ ꯁꯥꯟꯅ-ꯈꯣꯠꯟꯕꯒꯤ ꯊꯧꯔꯝꯗ ꯃꯔꯨ ꯑꯣꯏꯕ ꯃꯆꯥꯛ ꯑꯃ ꯑꯣꯏꯔꯛꯂꯦ ꯍꯥꯏꯕ ꯑꯩꯈꯣꯏꯅ ꯈꯪꯅꯔꯦ꯫ ꯃꯃꯥꯡꯒꯤ ꯋꯥꯔꯦꯡꯗ ꯃꯥꯟꯆꯦꯁꯇꯔ ꯌꯨꯅꯥꯏꯇꯦꯗ ꯐꯨꯠꯕꯣꯜ ꯀ꯭ꯂꯕꯀꯤ ꯆꯤꯐ ꯀꯣꯆ ꯑꯃ ꯑꯣꯏꯔꯝꯕ ꯑꯂꯦꯛꯁ ꯐꯔꯒꯁꯟꯅ ꯃꯍꯥꯛꯀ ꯇꯤꯝ ꯑꯁꯤꯅ ꯃꯥꯏ ꯄꯥꯛꯅꯕ ꯍꯥꯏꯗꯨꯅ ꯁꯥꯟꯅꯔꯣꯏꯁꯤꯡꯕꯨ ꯃꯁꯥ ꯀꯟꯅꯕ, ꯂꯝꯂꯦꯜ ꯌꯥꯡꯅꯕ,
ꯗꯝ ꯂꯩꯕ ꯇꯥꯟꯅꯕ ꯃꯈꯜ ꯃꯈꯜꯒꯤ ꯑꯣꯖꯥꯁꯤꯡ ꯊꯝꯗꯨꯅ ꯗꯔꯀꯥꯔ
ꯑꯣꯏꯕ ꯇ꯭ꯔꯦꯅꯤꯡ ꯑꯃꯁꯨꯡ ꯀꯣꯆꯤꯡ ꯇꯧꯍꯜꯂꯤꯍꯥꯏꯅ ꯊꯝꯖꯈꯤꯕꯒ
ꯂꯣꯏꯅꯅ ꯃꯍꯥꯛꯀꯤ ꯈꯨꯗꯥꯡꯗ ꯁꯤꯔꯤꯕ ꯘꯔꯤ ꯑꯗꯨꯒꯤ ꯃꯃꯥꯏꯗ
ꯈꯨꯗꯣꯝꯕꯤꯅ ꯇꯞꯅ-ꯇꯞꯅ ꯌꯩꯕ ꯑꯁꯤꯁꯨ ꯁꯥꯏꯀꯣꯂꯣꯖꯤꯒꯤ ꯃꯥꯏ
ꯄꯥꯛꯄꯒꯤ ꯁꯔꯨꯛ ꯑꯃꯅꯤ ꯍꯥꯏꯅꯁꯨ ꯄꯟꯖꯈ꯭ꯔꯦ꯫
ꯀꯣꯆ ꯑꯁꯤꯒꯤ ꯇꯣꯉꯥꯟꯕ ꯃꯒꯨꯅ ꯑꯃꯅ ꯃꯍꯥꯛꯅ ꯇꯤꯝ
ꯑꯗꯨꯒꯤ ꯁꯥꯟꯅꯔꯣꯏ ꯄꯨꯝꯅꯃꯛꯀꯤ ꯑꯣꯏꯅ ꯃꯊꯛꯇ ꯃꯈꯣꯏꯒꯤ
ꯂꯝꯆꯠ-ꯁꯥꯖꯠ ꯑꯃꯗꯤ ꯃꯈꯣꯏꯅ ꯐꯤꯜꯗ ꯃꯅꯨꯡꯗ ꯁꯥꯟꯅꯔꯤꯉꯩꯗ
ꯀꯤꯒꯟꯕ, ꯃꯊꯧꯅ ꯂꯩꯕ, ꯄꯥꯡꯒꯟꯕ, ꯃꯤꯉꯣꯟꯗ ꯀꯥꯎꯊꯠꯇꯨꯅ
ꯑꯁꯣꯛ ꯑꯄꯟ ꯊꯣꯛꯍꯟꯅꯕ ꯍꯣꯠꯅꯕ, ꯃꯁꯥ ꯃꯇꯣꯝꯇ ꯄꯟꯖꯜ
ꯆꯟꯅꯕ ꯍꯣꯠꯅꯕ, ꯃꯈꯣꯏꯅ ꯃꯌꯨꯝꯗ ꯂꯩꯕ ꯃꯇꯝꯗ ꯑꯃꯗꯤ ꯀꯣꯆꯤꯡ
ꯀꯦꯝꯞꯇ ꯀꯔꯝꯕ ꯁꯥꯖꯠ ꯆꯠꯀꯅꯤ ꯍꯥꯏꯕ ꯈꯪꯏ꯫
ꯁꯥꯟꯅꯔꯣꯏ ꯑꯃꯅ ꯂꯝ ꯍꯦꯟꯒꯗꯕꯒꯤ ꯃꯑꯣꯡ ꯂꯥꯛꯂꯕꯗꯤ
ꯃꯍꯥꯛꯅ ꯑꯉꯥꯡ ꯑꯗꯨꯒꯤ ꯃꯃꯤꯠꯇ ꯃꯨꯟꯅ ꯌꯦꯡꯏ꯫ ꯃꯍꯥꯛꯅ
ꯂꯝꯍꯦꯟꯕ ꯁꯥꯟꯅꯔꯣꯏ ꯊꯦꯡꯅꯔꯕꯗꯤ ꯃꯍꯥꯛꯅ ꯍꯥꯏ ‘ꯅꯍꯥꯛ ꯃꯇꯝ
ꯑꯃꯗ ꯅꯍꯥ ꯑꯣꯏꯔꯝꯃꯤ, ꯅꯍꯥꯛ ꯃꯗꯨꯒꯤ ꯐꯤꯚꯝꯗ ꯂꯩꯒꯗꯕꯅꯤ’ ꯅꯪꯅ
ꯑꯔꯥꯟꯕ ꯇꯧꯔꯕꯗꯤ ꯅꯍꯥꯛ ꯗꯟꯗꯤ ꯄꯤꯒꯗꯕꯅꯤ꯫’ ꯗꯟꯗꯤ ꯄꯤꯕ ꯍꯥꯏꯕ ꯑꯁꯤ ꯃꯍꯥꯛꯄꯨ ꯁꯥꯟꯅꯕ ꯌꯥꯎꯍꯟꯗꯕ ꯑꯃꯗꯤ ꯀ꯭ꯂꯕ ꯑꯗꯨꯗꯒꯤ ꯇꯥꯟꯊꯣꯛꯄꯅꯤ꯫ ꯃꯍꯥꯛꯅ ꯐ꯭ꯔꯦꯡꯛ ꯃꯦꯛꯒꯔꯇꯦꯔ ꯀꯧꯕ ꯂꯝꯍꯦꯟꯕ ꯁꯥꯟꯅꯔꯣꯏ ꯑꯃꯗ ꯍꯥꯏꯈꯤ ꯃꯗꯨꯗꯤ ‘ꯅꯪ ꯁꯥꯟꯅꯕ ꯑꯃꯨꯛ ꯍꯟꯅ ꯌꯥꯎꯍꯜꯂꯔꯣꯏ꯫’ ꯐ꯭ꯔꯦꯡꯛ ꯃꯦꯛꯒꯔꯇꯦꯔꯅ ꯃꯍꯥꯛꯅ ꯍꯥꯏꯕ ꯑꯗꯨ ꯌꯥꯝꯅ ꯀꯤꯔꯝꯃꯤ ꯑꯃꯁꯨꯡ ꯊꯥꯖꯔꯝꯃꯤ꯫ ꯃꯌꯣꯜ ꯑꯍꯨꯝꯂꯣꯝ ꯂꯩꯔꯒ ꯁꯥꯟꯅꯔꯣꯏ ꯑꯗꯨꯅ ꯃꯉꯣꯟꯗ ꯃꯍꯥꯛꯄꯨ ꯉꯥꯛꯄꯤꯅꯕ ꯑꯃꯗꯤ ꯁꯥꯟꯅꯕ ꯑꯃꯨꯛꯇꯒ ꯌꯥꯎꯍꯟꯕꯤꯌꯨ ꯍꯥꯏꯖꯈꯤ꯫ ꯁꯥꯟꯅꯔꯣꯏ ꯑꯗꯨꯅ ꯇꯞꯅ ꯇꯞꯅ ꯈꯪꯂꯛꯈꯤ ꯃꯗꯨꯗꯤ ꯁꯥꯟꯅꯕꯗꯤ ꯌꯥꯎꯍꯟꯒꯦ ꯌꯥꯎꯍꯜꯂꯣꯏ ꯍꯥꯏꯕ ꯑꯁꯤ ꯀꯣꯆꯀꯤ ꯃꯈꯨꯠꯇ ꯑꯌꯥꯝꯕ ꯂꯩ ꯍꯥꯏꯕꯁꯤ꯫
ꯃꯤ ꯑꯌꯥꯝꯕꯅ ꯀꯣꯆ ꯑꯁꯤꯒꯤ ‘ꯃꯥꯏꯟꯗ ꯒꯦꯝꯁ’ ꯀꯤ ꯃꯔꯝꯗ ꯌꯥꯝꯅ ꯉꯥꯉꯅꯩ꯫ ꯃꯍꯥꯛꯄꯨ ꯀꯔꯤꯒꯨꯝꯕ ꯃꯇꯝꯗ ꯐꯨꯠꯕꯣꯜꯒꯤ ꯃꯔꯝ ꯑꯈꯪ ꯑꯍꯩꯁꯤꯡ, ꯃꯁꯤꯒꯤ ꯃꯔꯝꯗ ꯊꯤꯖꯤꯟꯕ ꯑꯣꯖꯥꯁꯤꯡ, ꯄꯥꯎꯆꯦꯒꯤ ꯃꯤꯁꯤꯡ ꯑꯃꯗꯤ ꯃꯃꯤꯡ ꯂꯩꯕ ꯃꯤꯑꯣꯏ ꯀꯌꯥꯅ ꯃꯍꯥꯛꯀꯤ ꯇꯤꯝꯅ ꯃꯥꯏ ꯄꯥꯛꯄꯒꯤ ꯑꯔꯣꯟꯕ
ꯑꯗꯨ ꯀꯔꯤꯅꯣ ꯍꯥꯏꯅ ꯍꯪꯈꯤ꯫ ꯇꯧꯏꯒꯨꯃꯕꯁꯨꯡ ꯑꯀꯣꯟꯕꯗ ꯃꯈꯣꯏꯅ ꯈꯪꯂꯛꯈꯤ ꯃꯗꯨꯗꯤ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯃꯔꯨ ꯑꯣꯏꯕꯗꯤ ꯃꯍꯥꯛꯀꯤ ꯁꯥꯏꯀꯣꯂꯣꯖꯤꯀꯦꯜ ꯄ꯭ꯔꯦꯁꯔ ꯑꯗꯨ ꯑꯣꯏꯔꯝꯃꯤ꯫ ꯅꯣꯡꯃ ꯀꯨꯝꯖꯥ 2010ꯗ ꯁꯒꯣꯜ ꯂꯝꯖꯦꯜꯒꯤ ꯄꯩꯁꯥ ꯊꯥꯅꯐꯝ ꯑꯃꯗ ꯂꯝꯖꯦꯜ ꯌꯦꯡꯕ ꯆꯠꯂꯨꯕꯗ ꯅꯨꯄꯥ ꯑꯃ ꯃꯍꯥꯛꯀꯤ ꯃꯅꯥꯛꯇ ꯆꯪꯂꯛꯇꯨꯅ ꯑꯁꯨꯝꯅ ꯍꯥꯏꯈꯤ, “ꯑꯩꯅ ꯅꯪꯕꯨ ꯇꯦꯂꯤꯚꯤꯖꯟꯅꯗ ꯌꯥꯝꯅ ꯁꯥꯎꯅ ꯋꯥ ꯉꯥꯡꯕ ꯈꯥꯈꯤꯕ ꯃꯤ ꯑꯃ
ꯑꯣꯏꯅ ꯎꯠ, ꯑꯗꯨꯕꯨ ꯃꯐꯝ ꯑꯁꯤꯗꯗꯤ ꯅꯍꯥꯛ ꯅꯣꯛꯇꯨꯅ ꯅꯨꯡꯉꯥꯏꯅ ꯂꯩꯔꯤ꯫’ ꯃꯗꯨꯗ ꯃꯍꯥꯛꯅ ꯐꯔꯦ ꯑꯗꯨꯗꯤ ꯅꯍꯥꯛꯅ ꯑꯩꯕꯨ ꯊꯕꯛ ꯑꯃ ꯇꯧꯕꯗ ꯄꯨꯛꯅꯤꯡ ꯍꯛꯆꯥꯡ ꯂꯨꯞꯅ ꯇꯧꯍꯟꯅꯤꯗꯕ꯭ꯔꯥ ꯍꯥꯏꯅ ꯈꯨꯝꯂꯝꯃꯤ꯫ ꯑꯩꯗꯤ ꯊꯕꯛꯇ ꯄꯨꯛꯅꯤꯡ ꯍꯀꯆꯥꯡ ꯂꯨꯞꯄꯅꯤ꯫ ꯑꯩꯒꯤ ꯋꯥꯈꯜꯗ ꯂꯥꯛꯄ ꯈꯨꯗꯤꯡꯃꯛ ꯁꯥꯟꯅꯔꯣꯏꯁꯤꯡꯗ ꯀꯥꯟꯅꯒꯗꯕꯅꯤ꯫ ꯑꯩꯅ ꯑꯔꯥꯟꯕ ꯑꯃꯠꯇ ꯇꯧꯕ ꯌꯥꯔꯣꯏ꯫ ꯑꯩꯅ ꯀꯔꯤꯒꯨꯝꯕ ꯑꯃꯠꯇ ꯆꯦꯗ ꯅꯣꯠ ꯇꯧꯗꯦ (ꯏꯁꯤꯟꯗꯦ), ꯑꯩ ꯚꯤꯗꯤꯑꯣꯗ ꯊꯥꯖꯗꯦ ꯑꯃꯗꯤ ꯑꯩꯗꯤ ꯑꯆꯨꯝꯕ ꯍꯥꯏꯕ ꯑꯗꯨ ꯑꯣꯏꯒꯗꯕꯅꯤ, ꯃꯁꯤ ꯌꯥꯝꯅ ꯂꯨꯕ ꯆꯦꯛꯁꯤꯟꯒꯗꯕ ꯊꯕꯛꯅꯤ ꯑꯃꯁꯨꯡ ꯃꯁꯤꯗ ꯑꯔꯥꯟꯕ ꯑꯃꯠꯇ ꯑꯣꯏꯍꯟꯕ ꯌꯥꯗꯦ꯫
ꯃꯍꯥꯛꯅ ꯑꯁꯨꯝꯅ ꯃꯈꯥ ꯇꯥꯅ ꯍꯥꯏꯈꯤ ꯃꯗꯨꯗꯤ ꯃꯥꯟꯆꯦꯁꯇꯔ
ꯌꯨꯅꯥꯏꯇꯦꯗꯀ ꯕꯣꯔꯨꯁꯤꯌꯥ ꯗꯣꯔꯠꯃꯨꯟꯗꯒ ꯁꯥꯟꯅꯈꯤꯕ ꯆꯦꯝꯄꯤꯌꯟ
ꯂꯤꯒꯀꯤ ꯁꯦꯃꯤꯐꯥꯏꯅꯦꯜ ꯑꯃꯗ ꯄꯦꯇꯔ ꯁ꯭ꯀꯤꯃꯩꯀꯦꯜꯅ
ꯑꯔꯥꯟꯕ ꯑꯃ ꯇꯧꯈ꯭ꯔꯦ ꯍꯥꯏꯕ ꯃꯍꯥꯛ ꯈꯪꯏ ꯑꯗꯨꯕꯨ ꯃꯇꯝ ꯑꯗꯨꯗ
ꯃꯍꯥꯛꯀꯤ ꯑꯅꯣꯛ ꯌꯥꯎꯗꯦ ꯑꯗꯨꯅ ꯃꯌꯦꯛ ꯁꯦꯡꯅ ꯎꯈꯤꯗꯦ꯫
ꯁꯥꯟꯅꯔꯣꯏꯁꯤꯡꯅ ꯀꯣꯆ ꯑꯃꯗꯤ ꯑꯣꯖꯥꯁꯤꯉꯒꯤ ꯃꯔꯝꯗ ꯋꯥ ꯌꯥꯝꯅ
ꯉꯥꯉꯍꯟꯗꯅꯕ ꯍꯣꯠꯅꯒꯗꯕꯅꯤ꯫ ꯃꯁꯤꯒꯤ ꯀꯣꯆꯁꯤꯡꯒꯤ ꯂꯩꯔꯤꯕ
ꯃꯍꯩꯁꯤꯡ ꯑꯗꯨ ꯃꯈꯣꯏꯅ ꯎꯁꯤꯜꯂꯛꯇꯦ, ꯀꯣꯆꯁꯤꯡꯗ ꯂꯩꯔꯝꯕ
ꯊꯥꯖꯕ ꯑꯗꯨ ꯃꯥꯡꯂꯛꯏ꯫ ꯑꯖꯥ ꯑꯃꯅ ꯁꯥꯟꯅꯔꯣꯏꯗ ꯋꯥ ꯑꯃ ꯍꯥꯏꯕꯗ
ꯆꯞ ꯆꯥꯕ ꯑꯆꯨꯃꯕ ꯑꯗꯨ ꯍꯥꯏꯒꯗꯕꯅꯤ꯫ ꯃꯍꯥꯛꯅ ꯑꯁꯨꯝꯅ ꯍꯥꯏ
ꯃꯗꯨꯗꯤ ꯑꯩꯈꯣꯏꯅ ꯑꯇꯣꯞꯄ ꯇꯤꯝ ꯑꯃꯒ ꯃꯥꯌꯣꯛꯅꯕ ꯐꯨꯠꯕꯣꯜ
ꯁꯥꯟꯅꯒꯗꯕ ꯂꯩꯔꯕꯗꯤ ꯃꯥꯌꯣꯛꯅꯕ ꯇꯤꯝꯒꯤ ꯁꯥꯟꯅꯔꯣꯏ 11ꯒꯤ
ꯄꯣꯖꯤꯁꯟ ꯑꯗꯨ ꯃꯨꯟꯅ ꯈꯪꯒꯗꯕꯅꯤ꯫
ꯃꯍꯥꯛꯅ ꯃꯥꯟꯆꯦꯁꯇꯔ ꯌꯨꯅꯥꯏꯇꯦꯗꯀꯤ ꯀꯣꯆ ꯑꯣꯏꯕ
ꯏꯀꯨꯏ ꯀꯨꯏꯗ꯭ꯔꯤꯉꯩꯗ ꯀꯣꯚꯟꯇ꯭ꯔꯤ ꯀ꯭ꯂꯕꯀꯤ ꯇꯤꯝꯒ ꯐꯨꯠꯕꯣꯜ
ꯑꯦꯁꯣꯁꯤꯌꯦꯁꯟ ꯀꯞꯀꯤ ꯃꯦꯆ ꯑꯃ ꯑꯣꯜꯗ ꯇ꯭ꯔꯥꯐꯣꯔꯗꯇ
ꯁꯥꯟꯅꯔꯝꯃꯤ꯫ ꯃꯗꯨꯗ ꯃꯍꯥꯛꯅ ꯀꯣꯚꯟꯇ꯭ꯔꯤꯒꯤ ꯇꯤꯝ ꯑꯗꯨ
ꯍꯥꯟꯅꯒꯤ ꯇꯤꯝ ꯑꯗꯨꯒꯨꯝꯅ ꯈꯜꯂꯝꯃꯤ꯫ ꯑꯗꯨꯕꯨ ꯇꯤꯝ ꯑꯗꯨꯅ ꯃꯈꯣꯏꯕꯨ ꯊꯤꯅ ꯃꯥꯏꯊꯤꯕ ꯄꯤꯈꯤ꯫ ꯃꯗꯨꯗꯒꯤ ꯃꯍꯥꯛꯅ ꯃꯈꯣꯏꯒꯤ ꯈꯦꯟꯅ-ꯈꯦꯟꯅꯕ ꯇꯦꯛꯇꯤꯁ, ꯈꯦꯟꯅꯕ ꯃꯑꯣꯡꯗ ꯃꯣꯇꯤꯚꯦꯁꯟ ꯇꯧꯗꯨꯅ ꯃꯄꯨꯛꯅꯤꯡ ꯊꯧꯒꯠꯇꯨꯅ ꯃꯊꯧꯅ ꯍꯥꯞꯀꯠꯄꯅꯆꯤꯡꯕ ꯀꯣꯆꯁꯤꯡꯒꯤ ꯃꯒꯨꯟꯁꯤꯡ ꯑꯗꯨ ꯃꯍꯥꯛꯀꯤ ꯄꯥꯔꯥ ꯑꯃ ꯑꯣꯏꯈꯤ꯫ ꯃꯔꯝ ꯑꯗꯨꯅ ꯃꯥꯍꯛꯀꯤ ꯁꯥꯟꯅꯕꯨꯡ ꯑꯣꯜꯗ ꯇ꯭ꯔꯥꯐꯣꯔꯗꯇ ꯍꯦꯛ ꯌꯥꯔꯤꯕꯃꯈꯩ ꯊꯣꯏꯗꯣꯛ ꯍꯦꯟꯗꯣꯛꯅ ꯍꯩꯁꯤꯡꯕ ꯐꯨꯠꯕꯣꯜ ꯇꯤꯝꯁꯤꯡꯕꯨ ꯂꯥꯛꯇꯨꯅ ꯁꯥꯟꯅꯍꯟꯕꯒꯤ ꯈꯨꯗꯣꯡꯆꯥꯕ ꯂꯧꯏ꯫ ꯃꯍꯥꯛꯅ ꯑꯁꯨꯝꯅ ꯍꯥꯏ ꯃꯗꯨꯗꯤ ꯈꯔ ꯑꯐꯕ ꯇꯤꯝꯁꯤꯡꯗꯤ ꯃꯍꯥꯛꯀꯤ ꯀ꯭ꯂꯕꯀꯤ ꯁꯥꯟꯅꯕꯨꯡ ꯑꯣꯏꯔꯤꯕ ꯑꯣꯜꯗ ꯇ꯭ꯔꯥꯚꯣꯔꯗꯇ ꯂꯥꯛꯇꯨꯅ ꯃꯈꯣꯏꯕꯨ ꯀꯤꯍꯟꯕ ꯑꯣꯏꯅ ꯁꯥꯟꯅꯕ ꯂꯥꯛꯏ꯫ ꯃꯔꯝ ꯑꯗꯨꯅ ꯑꯔꯁꯅꯦꯜ, ꯆꯦꯜꯁꯤ ꯑꯃꯗꯤ ꯂꯤꯚꯔꯄꯨꯜꯅꯆꯤꯡꯕ ꯇꯤꯝꯁꯤꯡ ꯃꯈꯣꯏꯒꯤ ꯁꯥꯟꯅꯐꯝ ꯑꯣꯜꯗ ꯇ꯭ꯔꯥꯐꯣꯔꯗꯇ ꯁꯥꯟꯅꯕ ꯍꯦꯛ ꯍꯦꯛ ꯂꯥꯛꯍꯟꯕꯁꯨ ꯇꯧꯕꯅꯤ꯫
ꯐꯔꯒꯁꯟ ꯑꯁꯤ ꯄꯨꯛꯆꯦꯜ ꯁꯦꯡꯕ, ꯋꯥꯈꯜ ꯅꯤꯡꯊꯤꯅ ꯈꯟꯊꯕ, ꯐꯨꯠꯕꯣꯜꯒꯤ ꯀꯥꯡꯂꯣꯟ ꯅꯤꯡꯊꯤꯅ ꯈꯪꯕ ꯀꯣꯆꯅꯤ꯫ ꯃꯍꯥꯛꯅ ꯍꯣꯂꯦꯟꯗꯀꯤ ꯀꯦꯞꯇꯦꯟ ꯑꯣꯏꯔꯝꯕ ꯖꯣꯍꯥꯟ ꯀ꯭ꯔꯨꯌꯐꯀ ꯀꯨꯝꯖꯥ 1990 ꯗ ꯅꯣꯡꯃ ꯎꯅꯅꯕꯗ ꯀ꯭ꯔꯨꯌꯐꯅ ꯍꯥꯏꯔꯝꯃꯤ ꯃꯗꯨꯗꯤ ꯅꯍꯥꯛ ꯌꯨꯔꯣꯄꯤꯌꯟ ꯀꯞ ꯌꯧꯕ ꯁꯨꯛꯉꯝ ꯉꯝꯂꯣꯏ꯫ ꯃꯍꯥꯛꯅ ꯃꯗꯨꯒꯤ ꯃꯔꯝ ꯍꯪꯈꯤ꯫ ꯃꯗꯨꯗ ꯖꯣꯍꯥꯟ ꯀ꯭ꯔꯨꯌꯐꯅ ꯈꯨꯝꯂꯝꯈꯤ ꯃꯗꯨꯗ ꯅꯍꯥꯛ ꯅꯝꯊꯥꯛ ꯇꯧꯕ ꯑꯃꯁꯨꯡ ꯔꯦꯐꯔꯤ ꯂꯩꯔꯨꯗꯦ’ ꯍꯥꯏꯕꯤ ꯃꯍꯥꯛꯕ ꯑꯣꯏꯗꯕ ꯊꯕꯛ ꯇꯧꯗꯦ, ꯔꯦꯐꯔꯤꯗ ꯄꯩꯁꯥ ꯄꯤꯔꯨꯗꯦ ꯍꯥꯏꯕꯅꯤ꯫=

ꯀꯦꯃꯤꯁꯇ꯭ꯔꯤ ꯅꯣꯕꯦꯜ ꯄ꯭ꯔꯥꯏꯖ 2020
ꯖꯤꯅꯣꯝ ꯏꯗꯤꯇꯤꯡꯒꯤ ꯄꯥꯝꯕꯩ ꯄꯨꯊꯣꯛꯈꯤꯕꯒꯤꯗꯃꯛ
ꯁꯥꯏꯟꯁꯀꯤ ꯈꯣꯡꯆꯠ
ꯀꯨꯟꯖꯣ ꯅꯥꯎꯔꯦꯝ
ꯃꯥꯂꯦꯝꯗ ꯈ꯭ꯋꯥꯏꯗꯒꯤ ꯐꯕ ꯇꯨꯠꯕꯣꯜ ꯀꯣꯆ - ꯐꯔꯒꯁꯟ
-ꯂꯩꯁꯥꯡꯊꯦꯝ ꯑꯖꯤꯠ