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RESEARCH AREA

Research on emerging and re-emerging infectious diseases with high biosafety level (BSL3 and BSL4) as part of the OneHealth concept. Discovery, characterization and complex understanding of new viruses, assessment of their zoonotic ability (ability to jump from animal to human).

TECHNIQUES AVAILABLE IN THE LAB

Molecular biological diagnostic methods, viral genome sequencing, basics of biosafety, in vitro isolation experiments (virus propagation), evolutionary phylogenetic analyzes (origin research).

SELECTED PUBLICATIONS

Tóth, GE., Hume, AJ., Suder, EL., Zeghib, S., Ábrahám, Á., Lanszki, Z., Varga, Z., Tauber, Z., Földes, F., Zana, B., Scaravelli, D., Scicluna, MT., Pereswiet-Soltan, A., Görföl, T., Terregino, C., De Benedictis, P., Garcia-Dorival, I., Alonso, C., Jakab, F., Mühlberger, E., Leopardi, S., **Kemenesi, G.** (2023) Isolation and genome characterization of Lloviu virus from Italian Schreibers's bats. **Sci Rep** 13: 11310.

Fletcher, P., Feldmann, F., Takada, A., Crossland, NA., Hume, AJ., Albariño, C., **Kemenesi, G.**, Feldmann, H., Mühlberger, E., Marzi, A. (2023) Pathogenicity of Lloviu and Bombali Viruses in Type I Interferon Receptor Knockout Mice. **J Infect Dis** 228: S548-S553

Kemenesi, G., Tóth, E. G., Mayora-Neto, M., Scott, S., Temperton, N., Wright, E., Mühlberger, E., Adam J. Hume, Ellen L. Suder, Zana, B., Boldogh A. S., Görföl, T., Estók, P., Lanszki, Zs., Somogyi, A B., Nagy, Á., Pereszlényi, I Cs., Dudás, Cs., Földes, F., Kurucz, K., Madai, M., Zeghib, S., Maes, P., Vanmechelen, B., Jakab, F. (2022) Isolation of infectious Lloviu virus from Schreiber's bats in Hungary. **Nat Commun** 13: 1706.

Lanszki, Zs., Tóth E. G., Schütz, É., Zeghib, S., Rusvai, Zs., Jakab, F., **Kemenesi, G.** (2022) Complete genomic sequencing of canine distemper virus with nanopore technology during an epizootic event. **Sci Rep** 12: 4116.

Hume, J A., Heiden, B., Olejnik, J., Suder, L E., Ross, S., Scoon, A W., Bullitt, E., Ericsson, M., White, R M., Turcinovic, J., Thao, T N T., Hekman, M R., Kaserman, E J., Huang, J., Alysandratos, K D., Toth, E G., Jakab, F., Kotton, N., Wilson, A A., Emili, A., Thiel, V., Connor, H J., **Kemenesi, G.**, Cifuentes, D., Mühlberger, E. (2022) Recombinant Lloviu virus as a tool to study viral replication and host responses **PLoS Pathog.**