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dr. R Lia Kusumawati, M.Biomed, Sp.MK(K), Ph.D adalah seorang dokter spesialis Mikrobiologi Klinik-Konsultan dan Staf Pengajar di Departemen Mikrobiologi Fakultas Kedokteran Universitas Sumatera Utara dengan jabatan fungsional Lektor Kepala, menjabat sebagai Ketua Komite Pencehahan dan Pengendalian Infeksi (PPI) di RSP. Prof. dr. Chairuddin Panusunan Lubis Universitas Sumatera Utara dan Penanggungjawab Laboratorium PCR-WGS Fakultas Kedokteran Universitas Sumatera Utara. Pendidikan Sarjana (S-1) dan Profesi Kedokteran ditempuh di Fakultas Kedokteran Universitas Sumatera Utara, Pendidikan Master (S-2) Ilmu Biomedik di Fakultas Kedokteran Universitas Indonesia dan Pendikan Doktor (S-3) Epidemiology Medicine di Faculty of Medicine Prince of Songkla University Thailand.

Publications

2025
Jurnal internasional bereputasi

Molecular Detection of Mycobacterium tuberculosis and Nontuberculous Mycobacteria with Drug Resistance Profiling Using Line Probe Assay in Clinical Samples from Suspected Tuberculosis Patients in North Sumatra, Indonesia

R LIA KUSUMAWATI , INDAH NUR LESTARI , DELYUZAR , Mirzan Hasibuan

2025
Jurnal internasional bereputasi

Increasing Blood Culture Positivity for Streptococcus pneumoniae Using Tryptic Soy Sheep Blood Agar with Gentamicin (TSSBA-G) in Suspected Bacteremia and Pneumonia at Universitas Sumatera Utara Hospital, Indonesia

Mirzan Hasibuan , R LIA KUSUMAWATI

2025
Tulisan ilmiah

PERAN RSP PROF DR CHAIRUDDIN P LUBIS USU DALAM PELAYANAN TIDAK BERBAYAR DIAGNOSIS LABORATORIUM PCR-TBC DI KOTA MEDAN

GEMA NAZRI YANNI , Mirzan Hasibuan , R LIA KUSUMAWATI

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Jurnal internasional bereputasi

Rifaximin resistance in Clostridioides difficile is associated with specific rpoB alleles and multilocus sequence typing (MLST) clades

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Jurnal internasional bereputasi

Detection of Burkholderia pseudomallei in Suspected Melioidosis at Universitas Sumatera Utara (USU) Hospital, North Sumatra, Indonesia

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Jurnal nasional terakreditasi

Comparison of GeneXpert and line probe assay for the detection of Mycobacterium tuberculosis in direct sputum samples

R LIA KUSUMAWATI , Mirzan Hasibuan

2024
Jurnal internasional bereputasi

Coleus amboinicus Lour. Leaf Extract Has No Effects on the Biochemical Markers but Improves the Liver Histopathological Scores of Septic Rat Model

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Comparison of RT-PCR cycle threshold values between individual and pooled SARS-CoV-2 infected nasopharyngeal swab specimens

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Jurnal nasional terakreditasi

The Association of Age, Parity, and History of Cesarean Section with the Occurrence of Placenta Accreta Spectrum (Pas) at H. Adam Malik Hospital in Medan 2020-2022

R LIA KUSUMAWATI , RINI SAVITRI DAULAY , HOTMA P PAR PASARIBU

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Suharsih , Mirzan Hasibuan , R LIA KUSUMAWATI

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Whole-Genome Sequence Analysis of Carbapenem Resistant Acinetobacter baumannii isolated from Medan, North Sumatera, Indonesia

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2023
Jurnal internasional bereputasi

Diversity of Spa gene between methicillin-resistant and methicillin-sensitive Staphylococcus aureus bacteria in a tertiary referral hospital, Indonesia

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Missing Cases of Bacteriologically Confirmed TB/DR-TB from the National Treatment Registers in West and North Sumatra Provinces, Indonesia

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The effect of snakehead fish extract supplementation to first-line eradication regimen on macrophage migration inhibitory factor (MIF) expression in rats induced by Helicobacter pylori infection

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Predictive value of the urinary dipstick test in the management of patients with urinary tract infection-associated symptoms in primary care in Indonesia: a cross-sectional study

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Jurnal internasional bereputasi

Proteotyping of Clostridioides difficile as Alternate Typing Method to Ribotyping Is Able to Distinguish the Ribotypes RT027 and RT176 From Other Ribotypes

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Prosiding seminar internasional

Detection of meca gene from methicillin resistant staphylococcus aureus isolates of north sumatera

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Prosiding seminar internasional

Phenotypic and molecular detection of (CTX)-C-BLA-M gene extended-spectrum beta-lactamases in escherichia coli and klebsiella pneumoniae of north sumatera isolates

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Appropriateness of diagnosis and antibiotic use in sepsis patients admitted to a tertiary hospital in Indonesia

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The effect of Channa striata extract and standard eradication regimen on asymmetric dimethylarginine in Helicobacter pylori gastritis rat model

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Rethinking Antimicrobial Resistance Surveillance: A Role for Lot Quality Assurance Sampling

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Antimicrobial resistance in uropathogens and appropriateness of empirical treatment: a population-based surveillance study in Indonesia

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Clinical Epidemiology of Pediatric COVID-19 Delta Variant Cases From North Sumatra, Indonesia

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Laboratory-based versus population-based surveillance of antimicrobial resistance to inform empirical treatment for suspected urinary tract infection in Indonesia

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Detection of A2058G and A2059G on the 23S rRNA Gene by Multiplex Nested PCR to Identify Treponema pallidum Resistance to Azithromycin in Indonesia

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Pola Resistensi Antibiotik Pada Pasien Dewasa yang Menderita Pneumonia

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Pola Resistensi Antibiotik Pada Pasien Dewasa yang Menderita Pneumonia di RS Usu Periode Januari 2017–Desember 2018

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2021
Jurnal internasional

The Bacterial Profile and Antimicrobial Susceptibility Pattern among Patients with Suspected Bloodstream Infection in Universitas Sumatera Utara Hospital,

Indonesia

Mirzan Hasibuan , R LIA KUSUMAWATI

2021
Jurnal internasional

Bacterial Profiles and Antimicrobial Susceptibility Patterns in Patients with Suspected Bloodstream Infections

Mirzan Hasibuan , R LIA KUSUMAWATI

2020
Jurnal nasional terakreditasi

Training On Improving Training On Improving Health Cadres Capacity In Eradication of Tuberculosis Disease In Communities

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Jurnal internasional bereputasi

The Therapeutic Effect of Nigella Sativa Extract on Female Wistar Rats Vaginal Candidiasis Model

R LIA KUSUMAWATI , MUHAMMAD RUSDA

2020
Jurnal internasional bereputasi

A therapeutic effect of Nigella sativa extract on female Wistar rats vulvovaginal candidiasis model

MUHAMMAD RUSDA , R LIA KUSUMAWATI

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Jurnal internasional bereputasi

Whole-genome sequencing analysis of multidrug-resistant Mycobacterium tuberculosis from Java, Indonesia

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Jurnal internasional bereputasi

The effect of snakehead fish extract supplementation to first-line eradication regimen on macrophage migration inhibitory factor (MIF) expression in rats induced by Helicobacter pylori infection

SYAFRUDDIN ILYAS , R LIA KUSUMAWATI

2020
Jurnal internasional

The role of single nucleotide Interleukin-6 (IL-6) polymorphism gene in Psoriasis vulgaris patients at Haji Adam Malik Central Hospital, Medan-Indonesia

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Jurnal internasional bereputasi

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2020
Jurnal internasional

The correlation TNF-?gene promoter region-238G,-308G,-857, and-1031 polymorphism with psoriasis vulgaris

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2018
Prosiding seminar internasional

Phenotypic and Molecular Detection of OXA-48 Gene Carbapenem-resistant Klebsiella Pneumoniae and Escherichia Coli Isolates in Haji Adam Malik Hospital Medan, Indonesia

Mirzan Hasibuan , R LIA KUSUMAWATI , DWI SURYANTO

2018
Prosiding seminar internasional

Role Selective and Nonselective Media for Isolation of Burkholderia Species from Patients with Suspected Melioidosis

Mirzan Hasibuan , R LIA KUSUMAWATI

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Vitamin D supplementation in tuberculosis patients: A cross-sectional study

DINA KEUMALA SARI , R LIA KUSUMAWATI

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Prosiding seminar internasional

Vitamin C supplementation improve the sputum conversion culture rate in pulmonary tuberculosis treatment while rifampicin susceptible

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Jurnal internasional

Multidrug-resistant Tuberculosis in a Tertiary Hospital in North Sumatera, Indonesia: Clinical Predictors and Molecular Investigation

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2018
Monograf

Cytological diagnostic of lymphadenitis tuberculosis by eosinophilic material

ZAINUDDIN AMIR , DELYUZAR , R LIA KUSUMAWATI

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Prosiding seminar internasional

Phenotypic and molecular detection of BLACTX-M gene extended-spectrum beta-lactamases in escherichia coli and klebsiella pneumoniae of north sumatera isolates

Mirzan Hasibuan , DWI SURYANTO , R LIA KUSUMAWATI

2018
Monograf

Perbedaan Pola Bakteri dan Uji Kepekeaan Antibiotik pada Pasien Sepsis Dewasa dan Anak di Ruang Rawat Intensif RS Universitas Sumatera Utara

R LIA KUSUMAWATI

2017
Monograf

Deteksi Gen Resisten CTX-M, SHV, OXA-48 pada Isolat Klinis Bakteri Escherichia coli dan Klebsiella pneumoniae yang Tergolong Multiple Drug Resistant Organisms

R LIA KUSUMAWATI , DWI SURYANTO

2017
Buku referensi

Petunjuk Teknis Pemeriksaan TB Menggunakan Tes Cepat Molekuler

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Petunjuk Teknis Pemeriksaan TB Menggunakan Tes Cepat Molekuler

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2016
Monograf

Gambaran Kontaminasi Bakteri dan Jamur pada Sampel Maskara Mahasiswi Fakultas Kedokteran Universitas Sumatera Utara

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2015
Monograf

Standar Pelayanan Laboratorium Tuberkulosis

R LIA KUSUMAWATI

2013
Monograf

Deteksi virus chikungunya pada nyamuk Aedes aegypti di kabupaten Serdang Bedagai

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2013
Book chapter internasional

Maternal-Child Health, Interdisciplinary Aspects Within the Perspective of Global Health

R LIA KUSUMAWATI

Researches

2025

A CLINICALLY - ORIENTED ANTIMICROBIAL RESISTANCE SURVEILLANCE NETWORK FOR HEALTHCARE- ASSOCIATED INFECTIONS/ACORN-HAI FAKULTAS KEDOKTERAN UNIVERSITAS SUMATERA UTARA

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2025

PENELITIAN ANTARA UNIVERSITAS SUMATERA UTARA DENGAN PREPARE PROGRAMME, NATIONAL CENTRE FOR INFECTIOUS DISEASES SINGAPORE

BINTANG YINKE MAGDALENA SINAGA , INKE NADIA DINIYANTI LUBIS , R LIA KUSUMAWATI

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Health system enhancement for pandemic preparedness

Ivana Alona , INKE NADIA DINIYANTI LUBIS , R LIA KUSUMAWATI , Shenglan Tan

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Ipteks Bagi Masyarakat

PENINGKATAN KAPASITAS KADER KESEHATAN DI KECAMATAN MEDAN TUNTUNGAN DALAM PEMBERANTASAN PENYAKIT MENULAR TUBERKULOSIS DI MASYARAKAT

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