

dr. R. Lia Kusumawati, M.Biomed., Sp.MK(K), Ph.D

Dosen Program Studi S2 Ilmu Kedokteran Tropis
Fakultas Kedokteran
Universitas Sumatera Utara

✉ r.lia@usu.ac.id

🌐 fk.usu.ac.id/id/dosen/r-lia-kusumawati

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 Pendidikan 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

2025

Jurnal internasional bereputasi

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

R LIA KUSUMAWATI

2025

Jurnal internasional bereputasi

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

R LIA KUSUMAWATI , Mirzan Hasibuan

2025

Jurnal nasional terakreditasi

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

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

MUTIARA INDAH SARI , R LIA KUSUMAWATI , YUNITA SARI PANE , SUFITNI

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

R LIA KUSUMAWATI , MUTIARA INDAH SARI , SUFITNI , YUNITA SARI PANE

2024

Jurnal internasional bereputasi

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

INKE NADIA DINIYANTI LUBIS , ARIDAMURIANY DWIPUTRI LUBIS , R LIA KUSUMAWATI , Toh D. Yuan

2024

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

2024

Jurnal internasional bereputasi

Prevalence of Panton-Valentine leucocidin (pvl) and exfoliative toxin A (eta) gene within methicillin resistant and susceptible Staphylococcus aureus in an urban tertiary hospital: A molecular epidemiology pilot study

R LIA KUSUMAWATI , Mirzan Hasibuan , Lavarina Windah , SRI AMELIA

2024

Jurnal internasional bereputasi

Prevalence of Panton-Valentine leucocidin (pvl) and exfoliative toxin A (eta) gene within methicillin resistant and sensitive Staphylococcus aureus in an urban tertiary ...

R LIA KUSUMAWATI

2024

Jurnal nasional terakreditasi

UJI SENSITIVITAS ANTIBIOTIKA TERHADAP BAKTERI PENYEBAB INFEKSI PADA LUKA PASCA OPERASI

Suharsih , Mirzan Hasibuan , R LIA KUSUMAWATI

2023

Jurnal internasional bereputasi

Coleus Amboinicus Lour. Leaf Extract as an Antioxidant in Sepsis

MUTIARA INDAH SARI , R LIA KUSUMAWATI , YUNITA SARI PANE , SUFITNI

2023

Jurnal internasional bereputasi

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

R LIA KUSUMAWATI

2023

Jurnal internasional bereputasi

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

R LIA KUSUMAWATI , SRI AMELIA

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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Jurnal internasional bereputasi

Prevalence of Panton-Valentine leucocidin (pvl) and exfoliative toxin A (eta) gene within methicillin resistant and sensitive Staphylococcus aureus in an urban tertiary referral hospital: A molecular epidemiology pilot study

R LIA KUSUMAWATI , Lavarina Winda , SRI AMELIA

2023

Jurnal internasional bereputasi

SARS-CoV-2 lineages circulating during the first wave of the pandemic in North Sumatra, Indonesia

RAMADHAN BESTARI , MARIA LUCIA INGE LUSIDA , Prof. Kazufumi Shimizu , R LIA KUSUMAWATI , M. Ichwan , INKE NADIA DINIYANTI LUBIS

2023

Jurnal nasional terakreditasi

Detection of SARS-CoV-2 Post COVID-19 Vaccination in Health Workers in the COVID-19 Isolation Room

JELITA SIREGAR , R LIA KUSUMAWATI , Mirzan Hasibuan

2023

Jurnal internasional bereputasi

Sensitivity of nasopharyngeal swab and saliva specimens in the detection of SARS-CoV-2 virus among boarding school girls

RINI SAVITRI DAULAY , BADAI BUANA NASUTION , R LIA KUSUMAWATI , INKE NADIA DINIYANTI LUBIS

2023

Jurnal internasional bereputasi

Use of saliva as an alternative diagnostic method for diagnosis of COVID-19

RAMADHAN BESTARI , INKE NADIA DINIYANTI LUBIS , JELITA SIREGAR , M. Ichwan , R LIA KUSUMAWATI

2023

Jurnal internasional bereputasi

Use of saliva as an alternative diagnostic method for diagnosis of COVID-19

R LIA KUSUMAWATI , JELITA SIREGAR , M. Ichwan , INKE NADIA DINIYANTI LUBIS

2023

Jurnal internasional bereputasi

A comparative pilot study on Gram-negative bacteria contaminating the hands of children living in urban and rural areas of Indonesia versus Germany-A suitable monitoringä

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2023

Jurnal internasional bereputasi

A comparative pilot study on Gram-negative bacteria contaminating the hands of children living in urban and rural areas of Indonesia versus GermanyäA suitable monitoringä

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2023

Jurnal internasional bereputasi

The trend of paediatric cases during the first year of the COVID-19 pandemic in North Sumatra, Indonesia

R LIA KUSUMAWATI , M. Ichwan , INKE NADIA DINIYANTI LUBIS

2023

Jurnal internasional bereputasi

The trend of paediatric cases during the first year of the COVID-19 pandemic in North Sumatra, Indonesia

RAMADHAN BESTARI , R LIA KUSUMAWATI , M. Ichwan , INKE NADIA DINIYANTI LUBIS

2023
Jurnal internasional bereputasi

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

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2023
Jurnal internasional bereputasi

Performance of Xpert MTB/RIF and sputum microscopy compared to sputum culture for diagnosis of tuberculosis in seven hospitals in Indonesia

R LIA KUSUMAWATI

2022
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

R LIA KUSUMAWATI

2022
Prosiding seminar internasional

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

R LIA KUSUMAWATI

2022
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

R LIA KUSUMAWATI

2022
Jurnal internasional bereputasi

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

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2022
Jurnal internasional bereputasi

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

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2022
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

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2022
Jurnal internasional bereputasi

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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2022
Jurnal internasional bereputasi

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

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2022

Jurnal internasional bereputasi

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

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2022

Jurnal internasional bereputasi

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

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2022

Jurnal internasional bereputasi

Prevalence and Strain Characterization of Clostridioides (Clostridium) difficile in Representative Regions of Germany, Ghana, Tanzania and Indonesia - A Comparative Multi-Center Cross-Sectional Study

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2022

Jurnal internasional bereputasi

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

INKE NADIA DINIYANTI LUBIS , R LIA KUSUMAWATI

2022

Jurnal internasional bereputasi

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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2022

Jurnal nasional terakreditasi

Pola Resistensi Antibiotik Pada Pasien Dewasa yang Menderita Pneumonia

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2022

Jurnal nasional terakreditasi

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

R LIA KUSUMAWATI

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

INKE NADIA DINIYANTI LUBIS , R LIA KUSUMAWATI

2020

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

2020
Jurnal internasional bereputasi

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

R LIA KUSUMAWATI

2020
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 bereputasi

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

R LIA KUSUMAWATI , SYAFRUDDIN ILYAS

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

R LIA KUSUMAWATI , SYAFRUDDIN ILYAS

2020
Jurnal internasional

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

R LIA KUSUMAWATI , CASHTRY MEHER

2019
Jurnal nasional terakreditasi

Karakteristik Trauma Mata Pada Anak di Rumah Sakit Umum Pusat Haji Adam Malik Medan Tahun 2011

ARYANI ATIYATUL AMRA , R LIA KUSUMAWATI

2018
Prosiding seminar internasional

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

Mirzan Hasibuan , R LIA KUSUMAWATI

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

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

DINA KEUMALA SARI , R LIA KUSUMAWATI

2018
Jurnal internasional bereputasi

Prevalence and Strain Characterization of *Clostridioides (Clostridium) difficile*

in Representative Regions of Germany, Ghana, Tanzania and Indonesia - AÂ ...

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2018

Jurnal internasional bereputasi

Prevalence and Strain Characterization of Clostridioides (Clostridium) difficile in Representative Regions of Germany, Ghana, Tanzania and Indonesia - AÂ ...

R LIA KUSUMAWATI

2018

Prosiding seminar internasional

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

R LIA KUSUMAWATI

2018

Jurnal internasional

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

R LIA KUSUMAWATI

2018

Monograf

Cytological diagnostic of lymphadenitis tuberculosis by eosinophilic material

ZAINUDDIN AMIR , DELYUZAR , R LIA KUSUMAWATI

2018

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 Kepekaan Antibiotik pada Pasien Sepsis Dewasa dan Anak di Ruang Rawat Intensif RS Universitas Sumatera Utara

R LIA KUSUMAWATI

2017

Buku referensi

Petunjuk Teknis Pemeriksaan TB Menggunakan Tes Cepat Molekuler

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

R LIA KUSUMAWATI

2016

Monograf

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

R LIA KUSUMAWATI

2015

Monograf

Standar Pelayanan Laboratorium Tuberkulosis

R LIA KUSUMAWATI

2013
Monograf

Deteksi virus chikungunya pada nyamuk *Aedes aegypti* di kabupaten Serdang Bedagai

R LIA KUSUMAWATI , HEMMA YULFI

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

INKE NADIA DINIYANTI LUBIS , R LIA KUSUMAWATI

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

2024

Kerjasama Luar Negeri dan Publikasi Internasional

A CLINICALLY - ORIENTED ANTIMICROBIAL RESISTANCE SURVEILLANCE NETWORK FOR HEALTHCARE - ASSOCIATED INFECTIONS/ ACORN-HAI

R LIA KUSUMAWATI

2024

Kerjasama Luar Negeri dan Publikasi Internasional

Health system enhancement for pandemic preparedness

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

2022

Penelitian Dana Lokal Perguruan Tinggi

Peneitian

R LIA KUSUMAWATI

2020

Penelitian Unggulan Perguruan Tinggi

ANALISA WHOLE GENOME SEQUENCING PADA SAMPEL SARS-CoV-2 DARI SUMATERA UTARA DAN HUBUNGANNYA DENGAN MANIFESTASI KLINIS PASIEN COVID-19

RAMADHAN BESTARI , INKE NADIA DINIYANTI LUBIS , R LIA KUSUMAWATI , M. Ichwan , Prof. Kazufumi Shimizu

Community Services

2022
Ipteks

Praktik Dokter Spesialis Mikrobiologi Klinik-Konsultan

R LIA KUSUMAWATI

2025

Ipteks Bagi Masyarakat

PEMERIKSAAN ULTRASONOGRAFI (USG) THORAX PADA PASIEN DENGAN CURIGA TUBERKULOSIS DI WILAYAH KERJA PUSKESMAS AMBARITA,

SAMOSIR

ARIDAMURIANY DWIPUTRI LUBIS , CUT MELIZA ZAINUMI , R LIA KUSUMAWATI , ANANDA WIBAWANTA GINTING

2025

Ipteks

Praktik Dokter Spesialis Mikrobiologi Klinik-Konsultan

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2025

Ipteks

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2023

Ipteks

TB Research Training Program Asia

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2021

Ipteks Bagi Masyarakat

DETEKSI SARS-CoV-2 PADA TENAGA KESEHATAN (NAKES) PASCA VAKSIN: NAKES YANG BERTUGAS PADA RUANG ISOLASI PASIEN COVID-19 DAN KELUARGA NAKES SEBAGAI KONTAK ERAT

R LIA KUSUMAWATI , JELITA SIREGAR

2020

Ipteks Bagi Masyarakat

Deteksi SARS-CoV-2 pada Orang Dalam Pemantauan (ODP) dengan Pendekatan Molekuler dan Serologi

R LIA KUSUMAWATI , JELITA SIREGAR

2020

Pengabdian Masyarakat sebagai Tenaga Kesehatan, Tenaga Medis, serta Tenaga Pendukung Lainnya pada Gugus Tugas Percepatan Penanganan Corona Virus Disease 2019 di Provinsi Sumatera Utara

RAMADHAN BESTARI , INKE NADIA DINIYANTI LUBIS , R LIA KUSUMAWATI , M. Ichwan , Edy Rahmayadi (Gubernur Sumatera Utara)

2019

Ipteks Bagi Masyarakat

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

INKE NADIA DINIYANTI LUBIS , R LIA KUSUMAWATI
