

STUDENTS' ACHIEVEMENT REPORT

National Level One Health Competitions – IAPSM & ICMR Joint Initiative

Neelima Institute of Medical Sciences, Anurag University, proudly announces the outstanding achievements of our students at the **National Level One Health Competitions**, a prestigious joint initiative conducted by the Indian Association of Preventive and Social Medicine (IAPSM) and the Indian Council of Medical Research (ICMR). The competitions were held from **1st November to 30th November 2025**, bringing together talented medical students from institutions across the country to showcase their scientific creativity, public health awareness, and commitment to the One Health concept. Our students demonstrated exceptional academic excellence and innovation, securing commendable positions at the national level.

Achievements

First Place – One Health Photography Competition

Ms. Manaswini Yata

MBBS - 2023 Batch

Neelima Institute of Medical Sciences

Ms. Manaswini Yata secured the **First Place** in the One Health Photography Competition (Figure 1) by capturing a compelling visual representation of the interconnectedness between human, animal, and environmental health.

Fifth Place – One Health E-Poster Competition

Ms. Lalitha Marimuthu

MBBS - 2023 Batch

Neelima Institute of Medical Sciences

Ms. Lalitha Marimuthu achieved **Fifth Place** in the One Health E-Poster Competition (Figure 2) by presenting an informative and scientifically sound poster addressing key public health challenge of Microplastics within the One Health framework.

These achievements reflect the dedication, academic rigor, and innovative spirit of our students, as well as the Institution's commitment to promoting excellence in medical education, research, and public health awareness.

The Institution extends heartfelt congratulations to the winners and acknowledges the valuable guidance provided by the **Faculty Mentor - Dr. Yona Manchikalapati**, Assistant Professor, Department of Microbiology. Their success brings pride and recognition to the Institution at the national level and reinforces our mission to nurture future healthcare professionals.



He cares for the goat , the goat smiles back and the earth quietly thanks them that's the One health loop in action .





MICROPLASTICS MALINGERING AS MOSQUITOES AND MITES : MODERN DAY DISEASE VECTORS



ENVIRONMENT HEALTH

10% WE CHURN OUT ~460 MILLION TONNES OF PLASTIC YEARLY BUT RECYCLE LESS THAN 10%. THE REST IS BURNED, BURIED, OR LOST [1,2].

OUR OCEANS ARE CHOKING ON A "SMOG" OF 171 TRILLION PARTICLES WEIGHING OVER 2 MILLION TONNES[3,4].



HUMAN HEALTH

WE UNKNOWINGLY INGEST OR INHALE ~5G OF PLASTIC WEEKLY. THAT IS THE WEIGHT OF A CREDIT CARD EVERY WEEK, TOTALING ~250G A YEAR [5,6].

IT IS NO LONGER JUST AN EXTERNAL POLLUTANT. WE HAVE DETECTED MICROPLASTICS IN HUMAN BLOOD, DEEP LUNG TISSUE, PLACENTAS, AND BREAST MILK [7-10].



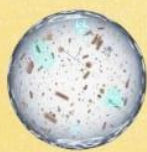
ANIMAL HEALTH

~32% OF SEA TURTLES HAVE INGESTED PLASTIC. BY 2050, 99% OF SEABIRDS ARE EXPECTED TO HAVE PLASTIC IN THEIR STOMACHS [11,12].

THESE PLASTICS ACT AS SPONGES FOR CHEMICALS, CARRYING TOXINS AND PATHOGENS UP THE FOOD CHAIN, EVENTUALLY REACHING OUR SEAFOOD [13,14].



INVISIBLE PLASTICS,



I AM PLASTIC, BUT I BEHAVE LIKE A VECTOR.



A BITE ISN'T NEEDED. YOU SWALLOW ME.

VISIBLE DISEASES...

FROM OCEANS TO HUMANS, MY JOURNEY NEVER ENDS.

SOLUTIONS PANEL : ONE EARTH, ONE HEALTH, ONE RESPONSIBILITY!!



MICROPLASTIC FILTRATION



RECYCLING



SAFE AGRICULTURAL SLUDGE USAGE



MARINE CLEANUP



BAN COSMETIC MICROBEADS



POLICY + SURVEILLANCE

REFERENCES

1. OECD. GLOBAL PLASTICS OUTLOOK. PARIS: OECD; 2022.
2. GEYER R, ET AL. SCI ADV. 2017;3(7):1700782.
3. EIKENEN N, ET AL. PROC ONE. 2023;18(3):5928-594.
4. UNEP. TURNING OFF THE TAP. NAIROBI: UNEP; 2023.
5. SENATHIRAJAH K, ET AL. J HAZARD MATER. 2021;424:127487.
6. COX KD, ET AL. ENVIRON SCI TECHNOL. 2019;53(11):7068-7074.
7. LESUE HA, ET AL. ENVIRON INT. 2022;163:107199.
8. JENNER IC, ET AL. SCI TOTAL ENVIRON. 2022;831:154907.
9. RAGUSA A, ET AL. ENVIRON INT. 2021;146:106274.
10. RAGUSA A, ET AL. POLYMERS (BASEL). 2022;14(13):2700.
11. SCHUYLER Q, ET AL. CONSERV BIOL. 2014;28(1):129-139.
12. WILCOX C, ET AL. PROC NATL ACAD SCI U S A. 2015;112(28):11899-11904.
13. WRIGHT SJ, ET AL. ENVIRON POLLUT. 2013;178:483-492.
14. LUSHER AL, ET AL. FAO FISHERIES TECH PAPER NO. 615. 2017.
15. WHO. MICROPLASTICS IN DRINKING-WATER. GENEVA: WHO; 2019.