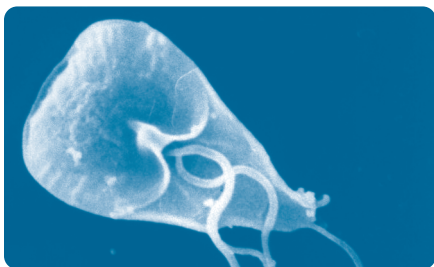


Genome of Parasite *Giardia Lamblia* Unlocked



Contaminated drinking or swimming water can expose people to *Giardia lamblia*, a parasite that causes more than 20,000 intestinal infections a year. An international team led by researchers at the Marine Biological Laboratory analyzed the parasite's genetic sequence and discovered several unusual proteins that are promising drug targets. These proteins are different enough from human proteins that if affected with a drug, they will not affect their human counterparts.

Reclaimed Water Beneficial to Vineyards

Studies done by the South Australian Research and Development Institute Mike McCarthy have shown there is no difference in yield between vines irrigated with reclaimed or mains water. McCarthy discovered that in fields



irrigated with reclaimed water, there were fewer pathogens in the soil than in fields irrigated with mains water. There were also higher levels of microbial activity. This finding demonstrates the benefits of using reclaimed water, as higher levels of microbes improve nutrient transfer to the vine.

AdEdge Technologies Tests Uranium Removal



AdEdge Technologies, Inc. recently announced successful results of its AD92 uranium adsorption treatment system, which treated high levels of

naturally occurring groundwater uranium in the village of Marshfield, Vt.

Installed in July 2007, the system featured a twin AD92-80 adsorption treatment system rated for up to 160 gpm using AdEdge AD92 IX anion exchange media. Initial testing conducted by the village of Marshfield showed nondetectable levels, far below the 30 µg/L MCL for uranium. Village residents are now able to use water from this source after drinking bottled water for the past four years.

EPA Limits Lead in Drinking Water



The U.S. Environmental Protection Agency (EPA) is issuing a final rule that will improve requirements in the areas of monitoring, customer awareness and lead service line replacement.

Specifically, the agency will require water suppliers to provide consumers

with information to help them make decisions about how to limit their exposure to lead in drinking water. The final rule is one outcome of the EPA's March 2005 Drinking Water Lead Reduction Plan, which arose from the EPA's analysis of the current regulation and state and local implementation.

ADA Updates Recommendations for Waste Handling



The American Dental Association has updated its best management practices for the disposal of dental amalgam waste to include the use of separators (collection devices installed in dental office plumbing) to capture and remove at least 95% of solid waste particles before they enter the sewer system. The use of separators will allow greater recycling and reduce the amount of amalgam—which contains mercury—entering wastewater treatment plants. *wqp*

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	Average No. Copies Each Issue During Preceding 12 Months	Actual No. Copies Single Issue Published Nearest To Filing Date
A. Total No.copies (Net Press Run)	19,080	19,018
B. Paid Circulation:		
1. Paid/requested outside-county mail subscriptions	18,035	17,047
2. Paid in-county subscriptions	-none-	-none-
3. Sales through dealers and carriers, street vendors, counter sales	-none-	-none-
4. Other classes mailed through the USPS	2	2
C. Total paid and/or requested circulation (Sum of 15b1 through 15b4)	18,037	17,049
D. Free distribution by mail (samples, complimentary, and other free)		
1. Outside-county	546	1,439
2. In-county	-none-	-none-
3. Other classes mailed through the USPS	-none-	-none-
E. Free distribution outside the mail (carriers/other means)	67	150
F. Total free distribution (sum of 15d + 15e)	613	1,589
G. Total distribution (sum of 15c + 15f)	18,650	18,638
H. Copies not distributed	430	380
I. Total (sum of 15g + 15h)	19,080	19,018
J. Percent paid and/or requested circulation (15c/15g x 100)	96.7%	91.5%

17. I certify that all information furnished on this form is true and complete. I understand that anyone who furnishes false or misleading information on this form or who omits material or information requested on the form may be subject to criminal sanctions (including fines and imprisonment) and/or civil sanctions (including multiple damages and civil penalties).

— Neda Simeonova, editorial director

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