

Online Coverage of paper published in the Journal of Biological Engineering July, 2009

Solving a Hamiltonian Path Problem with a bacterial computer

Jordan Baumgardner, Karen Acker, Oyinade Adefuye, Samuel THOMAS Crowley, Will DeLoache, James O Dickson, Lane Heard, Andrew T Martens, Nikolaus Morton, Michelle Ritter, Amber Shoecraft, Jessica Treece, Matthew Unzicker, Amanda Valencia, Mike Waters, A. MALCOLM Campbell, Laurie J. Heyer, Jeffrey L. Poet, Todd T. Eckdahl

Journal of Biological Engineering 2009, **3**:11 (24 July 2009)

The screenshot shows the website for the Journal of Biological Engineering. The header includes the logo and the text 'JOURNAL OF BIOLOGICAL ENGINEERING'. A navigation bar contains links for Home, Browse articles, Search, Weblinks, Submit article, My Journal of Biological Engineering, and About Journal of Biological Engineering. A sidebar on the left has a menu with 'articles' selected and a link to 'Browse Journal of Biological Engineering for Top 10 most accessed articles of all time'. The main content area displays 'Top 10 most accessed articles for last 30 days / past year / all time'. The first article is 'Solving a Hamiltonian Path Problem with a bacterial computer' by Jordan Baumgardner et al., published in 2009. The second article is 'Engineering bacteria to solve the Burnt Pancake Problem' by Karmella A Haynes et al., published in 2008. Each article entry includes a category (Research), access status (Open Access, Highly accessed), the title, authors, journal information, and links to abstract, full text, PDF, PubMed, and related articles.

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





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


































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blog.macb.net/2009/07/bacterial-computers-can-crack.html - [Cached](#) - [Similar](#)

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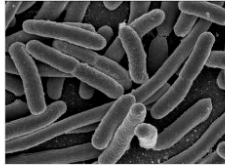
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E. Coli Learns to Solve Complex Equations

By [Adrian Covert](#) Posted 07.27.2009 at 4:50 pm 4 Comments

E. coli can do a lot more than wreak havoc within your digestive system. Scientists have made strides over the years turning the little microbe species into computational workhorses. Now a team of scientists at [Missouri State Western University](#) and Davidson University has devised a bacterial computer that can solve complex equations, using the bacteria as the brains.



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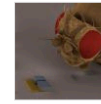
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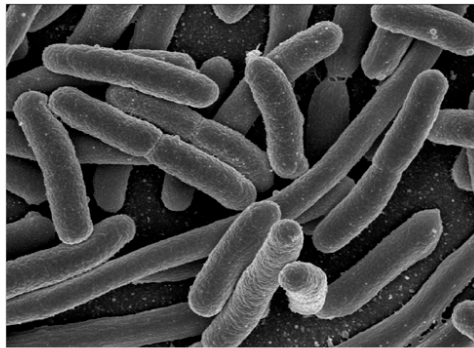
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E. Coli Learns to Solve Complex Equations

By [Adrian Covert](#) Posted 07.27.2009 at 4:50 pm 4 Comments



E. coli clock? courtesy of the National Institute of Health

E. coli can do a lot more than wreak havoc within your digestive system. Scientists have made strides over the years turning the little microbe species into computational workhorses. Now a team of scientists at [Missouri State Western University](#) and Davidson University has devised a bacterial computer that can solve complex equations, using the bacteria as the brains.

The *E. coli* were able to solve a problem known as the Hamiltonian Path Problem--wherein, amongst a series of points, the challenge is to route a path on a graph from beginning to end, visiting each point only once.

This feat is accomplished by programming a genetic circuit in the colony of bacteria, which then generates all possible paths it could take to reach the end goal in Hamiltonian fashion. The

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The Guardian

<http://www.guardian.co.uk/science/blog/2009/jul/24/bacteria-computer>

Bacteria make computers look like pocket calculators

Biologists have created a living computer from E. coli bacteria that can solve complex mathematical problems



Scanning electron micrograph of E. coli bacteria. A rapidly growing colony can be programmed to act as a hugely powerful parallel computer. Photograph: Getty

Computers are evolving – literally. While the tech world argues netbooks vs notebooks, synthetic biologists are leaving traditional computers behind altogether. A team of US scientists have engineered bacteria that can solve complex mathematical problems faster than anything made from silicon.

The research, published today in the *Journal of Biological Engineering*, proves that bacteria can be used to solve a puzzle known as the Hamiltonian Path Problem. Imagine you want to tour the 10 biggest cities in the UK, starting in London (number 1) and finishing in Bristol (number 10). The solution to the Hamiltonian Path Problem is the the shortest possible route you can take.

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Posted by
Jacob Aron Friday 24 July
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Published: July 24, 2009 at 7:00 PM
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ST. JOSEPH, Mo., July 23 (UPI) -- Researchers report creating what they call "bacterial computers" which potentially can solve complicated human mathematical problems.

The findings of the research, published in BioMed Central's *Journal of Biological Engineering*, demonstrate computing in living cells is feasible and can open the door to a number of applications, the report says.

The research team engineered the DNA of Escherichia coli bacteria, creating bacterial computers capable of solving a classic mathematical problem.

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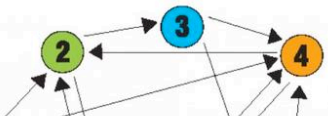
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RESEARCH WATCH

Bacterial computers move towards feasibility

By Darren Quick
22:54 July 27, 2009 PDT



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Last year we looked at how a research team had genetically engineered Escherichia coli, (E. coli), bacteria to solve a classic mathematical puzzle known as the burnt pancake problem. At the time the researchers indicated their intention to adapt 'bacterial computers' for other, related math problems, and it appears they've been true to their word by solving another classic mathematical problem, the Hamiltonian Path Problem.

The Hamiltonian Path Problem asks whether there is a route in a network from a beginning node to an ending node, visiting each node exactly once. The researchers modified the genetic circuitry of the bacteria to enable them to find a Hamiltonian path in a three-node graph. The bacteria that successfully solved the problem reported their success by fluorescing both red and green, resulting in yellow colonies.

The research team, consisting of faculty and undergraduate students from the biology and mathematics departments at [Missouri Western State University](#) in Missouri and Davidson College in North Carolina, USA, say their findings demonstrate that computing in living cells is feasible and illustrates the viability of extending the approach to other computationally challenging math problems.

Who knows? Maybe it won't be too long before kids are using bacteria to help them with their homework.

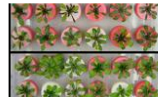
The team's findings can be found in the *Journal of Biological Engineering*.

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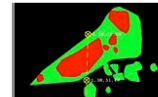
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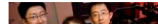
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Hardware

US boffins create bacterial computer

Multiplication inherent

By **Nick Farrell**

Friday, 24 July 2009, 12:42

US BOFFINS have emerged from their smoke-filled labs with a bacterial computer which they say can solve complicated maths problems.

According to BioMed Central's open access Journal of Biological Engineering (which we subscribe to for the spot-the-amoeba competition), the boffins have proved that it is possible to get some serious number crunching done within living cells. Well not on a Friday afternoon obviously.

A research team made up of four faculty members and 15 undergraduate students from the biology and mathematics departments at [Missouri Western State University](#) and Davidson College in North Carolina, engineered the DNA of escherichia coli bacteria.

The bacteria were able to solve a classic mathematical problem known as the Hamiltonian Path Problem by finding a Hamiltonian path in a three-node graph

Other Web sites

<http://www.sciencedaily.com/releases/2009/07/090723194321.htm>

The screenshot shows the ScienceDaily website interface. At the top, there are logos for ScienceDaily, A1CNow+, and simplewins. Below the logos is a navigation menu with categories like News, Articles, Videos, Images, Books, and a search bar. The main content area features a headline: **'Bacterial Computers': Genetically Engineered Bacteria Have Potential To Solve Complicated Mathematical Problems**. The article text begins: "ScienceDaily (July 23, 2009) — US researchers have created 'bacterial computers' with the potential to solve complicated mathematics problems. The findings of the research demonstrate that computing in living cells is feasible, opening the door to a number of applications. The second-generation bacterial computers illustrate the feasibility of extending the approach to other computationally challenging math problems." To the right of the article, there are several smaller articles under the heading "Science Video News", including "Bacteria As Art", "Mathematicians To Thank For Great Graphics", "Computer Engineers Develop Clothes that Sense and Interpret Movements", "Computer Scientists Say Hackers Prey On Those Who Don't Protect Themselves", and "more science videos". At the bottom right, there is a large advertisement for CogniFit.com.

<http://www.neoseeker.com/news/11369-scientists-successfully-test-bacteria-based-computer/>

The screenshot shows the Neoseeker website interface. At the top, there is a navigation bar with categories like Hardware, Games, Movies, Prices, Forums, and Videos. Below the navigation bar, there is a search bar and a "User Panel" section. The main content area features a headline: **Scientists successfully test bacteria-based computer**. The article text begins: "All your genes are belong to us". To the right of the article, there is a large advertisement for "WATER WARFARE" by Hudson, with the text "Available now!". Below the advertisement, there is a section for "RSS Feeds" and "Latest Comments". At the bottom right, there is a section for "Most Comments".

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Darmbakterien als Computer

27. Juli 2009, 18:16

Forscher zeigen, dass man mit der DNA von Mikroorganismen rechnen kann



London - Es klingt verrückt. Aber geht es nach den jüngsten Forschungen im Bereich der sogenannten Synthetischen Biologie, dann könnte man in Zukunft Darmbakterien oder andere lebende Organismen dafür einsetzen, mehr oder weniger knifflige mathematische Aufgaben zu lösen - wie zum Beispiel das "Problem des Handlungsreisenden".

Das besteht in seiner konventionellen Version darin, eine Route zwischen, sagen wir, acht Orten so zu wählen, dass die Wegstrecke so kurz wie möglich ist. Dieses Problem ist wiederum eine spezielle Variante des sogenannten Hamiltonkreisproblems, bei dem - vereinfacht gesagt und um beim Beispiel zu bleiben - gefragt wird, ob es eine Route ohne Kreuzung der Wegstrecken gibt, wenn die Städte etwa ihrer Größe nach besucht werden sollen.

Weil solche Aufgaben aus der sogenannten Graphentheorie schnell an Komplexität und Rechenaufwand gewinnen, wenn man die Anzahl der Städte bzw. Knoten erhöht, wurden sie zu einem wichtigen Bereich der Informatik. Und sie haben dazu beigetragen, die Definition dessen, was überhaupt ein Computer ist, zu erweitern.

Biologen werden Ingenieure

Ein Haufen Bakterien der Sorte Escherichia coli. US-Forscher haben die DNA dieser Plagegeister des Darms so programmiert, dass sie einfache mathematische Probleme lösen kann.

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Biologen werden Ingenieure

Eine der radikalsten dieser Erweiterungen treiben die Vertreter der Synthetischen Biologie voran, einem der zurzeit heißesten Forschungsfelder, das an den Schnittstellen von Molekularbiologie, Ingenieurwissenschaften und Informatik angesiedelt ist. Das Ziel dabei: die Biologie letztlich zu einem Zweig der Ingenieurwissenschaften zu machen. Und im vorliegenden Fall: Bakterien zu Computern.

Das ist nun einem US-Forscherteam - zumindest dem Prinzip nach - gelungen. Wie sie im gratis zugänglichen Journal of Biological Engineering berichten, haben sie die DNA des Darmbakteriums Escherichia coli so manipuliert, dass bestimmte Einzeller die richtige Lösung des Hamiltonkreisproblems für drei Städte bzw. Knoten "ausrechneten".

Für diese vergleichsweise einfache mathematische Aufgabe war allerdings einiges an komplizierter genetischer Programmierung nötig. Dafür stellten Forscher um Todd T. Eckdahl von der Missouri Western State University Bakterien mit einer Art genetischem Schaltkreis aus, der aus eingefügten und zufällig verteilten DNA-Abschnitten bestand.

Die drei "Städte" des Pfades wiederum wurden durch zusammengehörige, entweder rot oder grün leuchtende Hälften von Genen dargestellt. Kamen zufällig alle richtigen Hälften zusammen, leuchteten die Bakterien gelb. Diese stellten also eine richtige Lösung dar, was sich bei der Analyse ihrer DNA-Sequenzen bestätigen ließ.

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<http://www.bio-medicine.org/biology-technology-1/Genetically-engineered-bacteria-compute-the-route-13179-1/>

The screenshot shows the Bio-Medicine website interface. At the top, there is a navigation menu with categories like Home, Biology, Medicine, Technology, Products, News, Definition, Dictionary, Movies, Links, Tags, Search, and RSS. A search bar is located in the top right corner. The main content area features a news article titled "Genetically engineered bacteria compute the route" dated 7/23/2009. The article is attributed to the Microbiology Testing Lab and discusses research by US scientists at Missouri Western State University and Davidson College. The article text is partially obscured by an "Ads by Google" banner. To the right of the article, there are several "Breaking Biology Technology" and "Other Biology News" snippets. A left sidebar contains "Navigation Links" and "Biology Navigation" categories.

http://www.firstscience.com/home/news/breaking-news-all-topics/genetically-engineered-bacteria-compute-the-route-page-1-1_67684.html

The screenshot shows the First Science website. The header includes the "First Science.com" logo and navigation links. A banner for "EVONY" is visible at the top. The main content area displays a news article titled "Genetically engineered bacteria compute the route" from 23 Jul 2009, by BioMed Central. The article text is partially obscured by an "Ads by Google" banner for Florida Tech. To the right, there is an advertisement for "Hinckley Springs" water bottles. A left sidebar lists various news categories. The bottom of the page shows a "Done" status and browser navigation icons.

<http://racerwitz.blogspot.com/2009/07/us-scientists-create-living-computer.html>

The screenshot shows a Blogger blog interface. At the top, there's a search bar and navigation links for 'SEARCH BLOG', 'FLAG BLOG', and 'Next Blog'. The blog name 'wisteria' is displayed in a green header. The post date is 'Monday, July 27, 2009'. The main content is a post titled 'US scientists create living computer out of bacteria'. The text describes how researchers have programmed a virulent microbe, E. coli, to solve complex math problems. It mentions a research team from Missouri Western State University and Davidson College. The post is attributed to 'wisteria' and has a label 'computer'. On the right side, there is an 'About Me' section with a profile picture and a 'My Friends List' containing several names like Surva, Milena Eishamy, kissable94, vicky, rohit, nabihah, Countless Hymn, conanima, ani, redge, the beach hut, Scottboy, JLV, The Arete' Blog, and Zephyr Girl.

<http://www.zambionews.com/2009/07/25/27416>

The screenshot shows the ZAMP BioNews website. The header features the ZAMP BioNews logo and an RSS feed icon. The main article is titled 'Genetically Engineered Bacteria Compute The Route'. The text describes how US researchers have created 'bacterial computers' to solve complex math problems. It mentions that the findings were published in the Journal of Biological Engineering. The article is attributed to 'wisteria' and has a label 'computer'. On the right side, there is a sidebar with various sections: 'Ads by Google', 'Branson - Official Site', 'Cell Biology Undergraduate', 'Missouri Injury Attorneys', 'Missouri Accident Attorney', and 'Missouri Financial Aid'. There is also a 'Google Search' section with a search bar and a 'Subscribe' section with an email input field. The footer shows the date 'Monday, July 27, 2009' and the page number '1'.

http://www.brightsurf.com/news/headlines/47318/Genetically_engineered_bacteria_compute_the_route.html

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Genetically engineered bacteria compute the route
July 24, 2009

US researchers have created 'bacterial computers' with the potential to solve complicated mathematics problems. The findings of the research, published in BioMed Central's open access Journal of Biological Engineering, demonstrate that computing in living cells is feasible, opening the door to a number of applications. The second-generation bacterial computers illustrate the feasibility of extending the approach to other computationally challenging math problems.

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44-203-192-2129
BioMed Central

Genetically engineered bacteria compute the route

US researchers have created 'bacterial computers' with the potential to solve complicated mathematics problems. The findings of the research, published in BioMed Central's open access *Journal of Biological Engineering*, demonstrate that computing in living cells is feasible, opening the door to a number of applications. The second-generation bacterial computers illustrate the feasibility of extending the approach to other computationally challenging math problems.

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Synthetic biology is the use of molecular biology techniques, engineering principles, and mathematical modeling to design and construct genetic circuits that enable living cells to carry out novel functions. "Our research contributed more than 60 parts to the Registry of Standard Biological Parts, which are available for use by the larger synthetic biology community, including the newly split red fluorescent protein and green fluorescent protein genes," said Jordan Baumgardner, recent graduate of Missouri Western and first author of the research paper. "The research provides yet another example of how powerful and dynamic synthetic biology can be. We used synthetic biology to solve mathematical problems; others find applications in medicine, energy and the environment. Synthetic biology has great potential in the real world."

According to Dr. Eckdahl, the corresponding author of the article, synthetic biology affords a new opportunity for multidisciplinary undergraduate research training. "We have found synthetic biology to be an excellent way to engage students in research that connects biology and mathematics. Our students learn firsthand the value of crossing traditional disciplinary lines."

###

Notes to Editors:

1. The faculty mentors of the undergraduate research team are Dr. Todd Eckdahl and Dr. Jeff Poet, of Missouri Western State University, and Dr. A. Malcolm Campbell and Dr. Laurie Heyer of Davidson College.

2. Solving a Hamiltonian Path Problem with a bacterial computer
Jordan Baumgardner, Karen Acker, Oyimade Adefuye, Samuel THOMAS Crowley, Will DeLoache, James O Dickson, Lane Heard, Andrew T Martens, Nickolous Morton, Michelle Ritter, Amber Shoecraft, Jessica Treece, Matthew Unzicker, Amanda Valencia, Mike Waters, A. MALCOLM Campbell, Laurie J. Heyer, Jeffrey L. Poet and Todd T. Eckdahl

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"Escherichia coli" Bacteria Have Potential To Solve Mathematical Problems

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Science evolves every day and researchers found many things that can lead to a better future. Nowadays, science is so advanced that today we have thousands of PC models available in different sizes and performances. In this area recently a team of researchers



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rious or PC models available in different sizes and performances. In this area recently a team of researchers found a new type of computer, bacterial computer, which is actually the DNA studies result on **Escherichia coli bacteria**, a new form of life which can solve mathematical problems (eg.Hamiltonian Path Problem).

The researchers team consists of four members and 15 students from biology and mathematics departments, at [Missouri Western State University](#). They have managed to modify the genetically circuit of this bacteria, so the **microorganisms** can easily solve the Hamiltonian Path problem for a 3 nodes graph. This problem is not so complicated but this discovery could lead to creation of many applications in this field.

"Our research contributed more than 60 parts to the Registry of Standard Biological Parts, which are available for use by the larger **synthetic biology** community, including the newly split **red fluorescent protein** and **green fluorescent protein** genes... The research provides yet another example of how powerful and **dynamic synthetic biology** can be. We used synthetic biology to solve mathematical problems; others find applications in medicine, energy and the environment. **Synthetic biology** has great potential in the real world." - says a recent graduate of Missouri Western, Jordan Baumgardner.

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<http://www.medindia.net/news/Genetic-Research-To-Be-Revolutionized-By-Bacterial-Computers-55308-1.htm>

The screenshot shows the Medindia website interface. At the top, there is a navigation bar with links for 'About Us', 'Portfolio', 'Press', 'Careers', 'Sitemap', 'Advertise', and 'Contact Us'. Below this is a search bar and a 'Register | Sign In' link. The main content area features the article title 'Genetic Research To Be Revolutionized By 'Bacterial Computers'' in a large, bold font. The article is categorized as 'Research News' and dated 'Monday, July 27, 2009 at 10:42:01 AM'. The text of the article describes how researchers at Missouri Western State University and Davidson College engineered the DNA of *Escherichia coli* bacteria to solve a Hamiltonian Path Problem. The article includes a small image of a person and a 'Click here for NEWS Comments' button. On the right side, there are several widgets: a 'Google Translate' box, a '500 + Health news categories' section, a 'Latest Health News From Leading Resources' section, and a 'Stay Healthy' search box. The bottom of the page shows a browser status bar with 'Done' and 'Internet' indicators.

http://www.infection-research.de/news/detail/pressrelease/genetically_engineered_bacteria_compute_the_route/

The screenshot shows the 'infectionresearch' website. The header features the logo and navigation links for 'Home', 'Contact', 'Imprint', and 'Print'. The main content area displays the article title 'Genetically engineered bacteria compute the route' in a bold font. The article is dated '27 July 2009' and is attributed to 'BioMed Central'. The text describes the work of Jordan Baumgardner and his colleagues at Missouri Western State University, who engineered the DNA of *Escherichia coli* bacteria to solve a Hamiltonian Path Problem. The article includes a colorized scanning electron micrograph of the bacteria. The website also features a sidebar with navigation links for 'News', 'Jobs', 'Perspectives', 'Have you ever met...?', 'Institutions & Societies', 'Infectious Diseases', 'Books & Journals', 'Events', and 'Graphics'. A 'Newsletter: Sign up here' button is also present. The bottom of the page shows a browser status bar with 'Done' and 'Internet' indicators.

<http://www.physorg.com/news167636611.html>

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Genetically engineered bacteria compute the route

July 24th, 2009

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A research team made up of four faculty members and 15 undergraduate students from the biology and mathematics departments at [Missouri Western State University](#) in Missouri and Davidson College in North Carolina, USA engineered the DNA of *Escherichia coli* bacteria, creating bacterial [computers](#) capable of solving a classic mathematical problem known as the Hamiltonian Path Problem.

The research extends previous work published last year in the same journal to produce bacterial computers that could solve the Burnt Pancake Problem.

The Hamiltonian Path Problem asks whether there is a route in a network from a business node to an online node, visiting each node exactly once.

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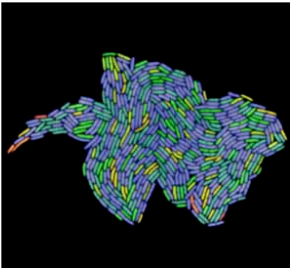
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Genetically engineered bacteria compute the route

Friday, July 24, 2009

US researchers have created 'bacterial computers' with the potential to solve complicated mathematics problems. The findings of the research, published in BioMed Central's open access *Journal of Biological Engineering*, demonstrate that computing in living cells is feasible, opening the door to a number of applications. The second-generation bacterial computers illustrate the feasibility of extending the approach to other computationally challenging math problems.



(Source: © CC 3.0 Stewart E.J., Madden R., Paul G., Taddei F/PLoS)

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Technology News

Newly discovered gene fusion may improve prostate cancer diagnosis

Researchers have found a new gene fusion that is highly expressed in a subset of prostate cancers—a discovery that could lead to more accurate prostate cancer testing and new targets for potential treatments. ANI

Bacterial computers to revolutionise genetic research

Scientists from Missouri Western State University and Davidson College in North Carolina, USA have developed bacterial computers that can revolutionise genetic research. ANI

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Scientists from [Missouri Western State University](#) and Davidson College in North Carolina, USA have developed bacterial computers that can revolutionise genetic research.

Washington, July 24 : Scientists from Missouri Western State University and Davidson College in North Carolina, USA have developed 'bacterial computers' that can revolutionise genetic research.

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Genetically Engineered Bacteria Can Compute The Route

Posted on: Friday, 24 July 2009, 07:34 CDT

US researchers have created 'bacterial computers' with the potential to solve complicated mathematics problems. The findings of the research, published in *BioMed Central's* open access *Journal of Biological Engineering*, demonstrate that computing in living cells is feasible, opening the door to a number of applications. The second-generation bacterial computers illustrate the feasibility of extending the approach to other computationally challenging math problems.

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http://www.sciencecodex.com/genetically_engineered_bacteria_compute_the_route

The screenshot shows the Science Codex website with a navigation bar (Home, Earth, Heavens, Body, Brain, Culture, Tech) and a search bar. The main article is titled "Genetically engineered bacteria compute the route" and is dated July 23, 2009. It features a "Share / Save" button and social media icons. The article text discusses the creation of "bacterial computers" by researchers at Missouri Western State University and Davidson College. A sidebar on the right includes a "1 Tip To A Skinny Stomach" advertisement with "Before" and "After" images, a "Click Here to Read My Story" link, and a "Similar Articles On This Topic" section with a list of related articles.

<http://esciencenews.com/articles/2009/07/24/genetically.engineered.bacteria.compute.route>

The screenshot shows the e! Science News website with a navigation bar (About, Science news archive, Contact, Spread the word!) and a search bar. The main article is titled "Genetically engineered bacteria compute the route" and is dated Friday, July 24, 2009. It features a "Share" section with social media icons and a "Learn more about" section with links to "challenging math problems", "escherichia coli bacteria", and "hamiltonian path problem". A "Sponsored links" section includes "Workgroup Clusters", "Branson - Official Site", "Helix3 Inc.", and "Microbiology Testing Lab". A "Latest Science Newsletter" section is also present with a "Subscribe" button.

<http://economictimes.indiatimes.com/Bacterial-computers-to-revolutionise-genetic-research/articleshow/4816159.cms>

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'Bacterial computers' to revolutionise genetic research

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WASHINGTON: Scientists from [Missouri Western State University](#) and Davidson College in North Carolina, USA have developed 'bacterial computers' that can revolutionise genetic research.



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'Bacterial computers' to revolutionise genetic research
 From ANI

Washington, July 24: Scientists from Missouri Western State University and Davidson College in North Carolina, USA have developed 'bacterial computers' that can revolutionise genetic research.

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<http://biosingularity.wordpress.com/2009/07/24/bacterial-computers-genetically-engineered-bacteria-have-potential-to-solve-complicated-mathematical-problems/>

The screenshot shows the Biosingularity WordPress blog interface. At the top, the site name "Biosingularity" is displayed with a logo. Navigation links include "Home", "About Biosingularity", "About Me", and "How I choose my blogs?". A search bar is located on the right side. The main content area features a post titled "'Bacterial Computers': Genetically Engineered Bacteria Have Potential To Solve Complicated Mathematical Problems" by Snowcrash, dated July 24, 2009. The post includes a sub-header "Stripping leukemia-initiating cells of their 'invisibility cloak'", a "Comment" link, and a paragraph of text. Below the text is a photograph of orange, rod-shaped bacteria. To the right of the main text is a "Top Posts" sidebar listing various articles with arrows pointing to them. The browser's address bar at the bottom shows the full URL.

<http://news.softpedia.com/news/Computing-in-Living-Cells-Is-now-Feasible-117456.shtml>

The screenshot displays the Softpedia website's news section. The top navigation bar includes categories like "WINDOWS", "GAMES", "DRIVERS", "MAC", "LINUX", "SCRIPTS", "MOBILE", "HANDHELD", "GADGETS", and "NEWS". The article is titled "Microbiology/Genetics" and "Computing in Living Cells Is Now Feasible". It is attributed to Tudor Vieru, Science Editor, and dated July 24, 2009. The article text describes a team of researchers from the US who demonstrated that computing within living bacterial cells is possible. It mentions the use of synthetic biology and references a publication in the Journal of Biological Engineering. The article includes a small image of bacteria and a "Bacterial Vaginosis" link. At the bottom right, there is an advertisement for Sun Microsystems and Intel Xeon processors. The browser's address bar at the bottom shows the URL.

<http://www.topnews.in/bacterial-computers-revolutionise-genetic-research-2193227>

The screenshot shows a news article on the TopNews.in website. The main headline is "'Bacterial computers' to revolutionise genetic research". The article is submitted by Mohit Joshi on Friday, 07/24/2009 at 11:39. It is categorized as 'Featured', 'Research', and 'United States'. The article text describes how scientists from Missouri Western State University and Davidson College in North Carolina, USA, have developed 'bacterial computers' that can revolutionise genetic research. The research team, consisting of four faculty members and 15 undergraduate students, engineered the DNA of Escherichia coli bacteria to create bacterial computers capable of solving a classic mathematical problem known as the Hamiltonian Path Problem. The article mentions that they modified the genetic circuitry of the bacteria to enable them to find a Hamiltonian path in a three-node graph. Bacteria that successfully solved the problem reported their success by fluorescing both red and green, resulting in yellow colonies. The article also includes a section for 'Stock Recommendations' with various market updates and a 'more' link. The website's navigation menu includes 'Analyst View', 'Company Results', 'Banking Sector', 'Forex Update', 'Stock Watch', 'Recent Polls', and 'Invite Us'. The search bar is visible on the left side.

<http://www.louis-e.de/?p=674>

The screenshot shows the LOUISe website, which is a newsline for white biotechnology. The main headline is "Genetically engineered bacteria compute the route". The article is dated July 24th, 2009, and is categorized under 'Forschung' and 'SynBio'. The article text describes how US researchers have created 'bacterial computers' with the potential to solve complicated mathematics problems. The findings of the research, published in BioMed Central's open access Journal of Biological Engineering, demonstrate that computing in living cells is feasible, opening the door to a number of applications. The second-generation bacterial computers illustrate the feasibility of extending the approach to other computationally challenging math problems. The article mentions that a research team made up of four faculty members and 15 undergraduate students from the biology and mathematics departments at Missouri Western State University in Missouri and Davidson College in North Carolina, USA, engineered the DNA of Escherichia coli bacteria, creating bacterial computers capable of solving a classic mathematical problem known as the Hamiltonian Path Problem. The article also includes a section for 'Terminale' with various events and a 'Werbung' section with a logo for 'BIO 2021 KATALYSE'. The website's navigation menu includes 'News', 'IBMonitor', 'Literatur', 'Termine', 'Jobmarkt', 'Werben', and 'Impressum'. The search bar is visible on the right side.

http://7thspace.com/headlines/315263/solving_a_hamiltonian_path_problem_with_a_bacterial_computer.html

The screenshot shows a web browser window displaying an article on 7thSpace InteractiveWeb. The article title is "Solving a Hamiltonian Path Problem with a bacterial computer". The content discusses the Hamiltonian Path Problem, its computational complexity, and how it was solved using bacterial computers. It mentions that DNA computers have been developed to solve NP-complete problems and that bacterial computers can be programmed by constructing genetic circuits. The article also includes a "Navigation" menu on the right with links to Home, New Account, Headlines, Medical News, Job Listings, Family Zone, Forums, Audio/Video Chat, Business Zone, Entertainment, Online Games Zone, MP3 & Music Zone, Script Directory, Shopping Zone, Software Directory, Virtual Shopping Mall, Webmaster Zone, and Web Directory. There is a "My 7thSpace" login section with fields for Username and Password. The browser's address bar shows the URL: http://7thspace.com/headlines/315263/solving_a_hamiltonian_path_problem_with_a_bacterial_computer.html.

http://www.thaindian.com/newsportal/health/bacterial-computers-to-revolutionise-genetic-research_100222453.html

The screenshot shows a web browser window displaying an article on Thaindian News. The article title is "'Bacterial computers' to revolutionise genetic research". The article is dated July 24th, 2009, at 5:44 pm ICT by ANI. It reports that scientists from Missouri Western State University and Davidson College in North Carolina, USA have developed 'bacterial computers' that can revolutionise genetic research. The article mentions that the research team, including four faculty members and 15 undergraduate students, engineered the DNA of Escherichia coli bacteria and created bacterial computers capable of solving a classic mathematical problem known as the Hamiltonian Path Problem. They modified the genetic circuitry of the bacteria to enable them to find a Hamiltonian path in a three-node graph. The article also includes a "Categories" list on the left with items like Books, Business, CPI, Entertainment, Environment, Events, Feature, Health, Health Science, images, India, Life Style, National, New Delhi, nuclear, Odd news, and Politics. There is a "1 Rule To A Flat Stomach: Obey" advertisement on the right featuring a woman in a black tank top. The browser's address bar shows the URL: http://www.thaindian.com/newsportal/health/bacterial-computers-to-revolutionise-genetic-research_100222453.html.

