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SCIENCE CIRCLE:

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FOUNDING SCIENTIST:

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MEDIA PARTNER:

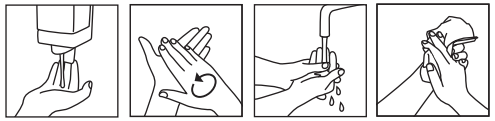
THE IRISH TIMES irishtimes.com

GOVERNMENT SUPPORT:

An Roinn Fiontar, Trádála agus Fostaíochta Department of Enterprise, Trade and Employment

Department of Arts Sports & Tourism
An Roinn Ealaíon, Spoirt Agus Turasóireachta

SCIENCE GALLERY IS AN INITIATIVE OF TRINITY COLLEGE DUBLIN



ACKNOWLEDGEMENTS:

Science Gallery would like to express special thanks to Professor Luke O'Neill and Professor Clíona O'Farrelly, from the School of Biochemistry and Immunology in Trinity College Dublin, who have led the work on developing this unique exhibition and we are especially thankful to the Wellcome Trust for its generous support of the project.

Thank you also to our other Founding Partner Ulster Bank and the members of our Science Circle: Dell, Google, ICON, Paccar and Wyeth for their generous support. Thank you to our media partner the Irish Times and thank you to DART/Irish Rail for helping to spread the word.

CURATORS: Luke O'Neill, Clíona O'Farrelly, Michael John Gorman. **ADVISORS:** Ken Arnold, Wellcome Trust, James Bradburne, Fondazione Palazzo Strozzi, Lynne Parker, Rough Magic Theatre Company. **GRAPHIC DESIGN:** Detail. Design Studio. **EXHIBITION DESIGN:** Joseph Vanek.

SCIENCE GALLERY TEAM:
EXHIBITION MANAGER: Don Pohlman **EXHIBITION ASSISTANTS:** Emma Siddall, Maria Phelan **EVENTS:** Beth Gormley **EDUCATION & OUTREACH MANAGER:** Lynn Scarff **TECHNICAL MANAGER:** Derek Williams **OPERATIONS MANAGER:** Lea O'Flannagain **MARKETING & COMMUNICATIONS MANAGER:** Anja Ekelof **FRONT OF HOUSE:** Anne Lewis, Emma Jane Skelton, Declan Greaney.

17:04:09-17:07:09

INFECTIOUS

STAY AWAY

Is that a rash? Are you wearing what they're wearing? Are you thinking what they're thinking? Do you have any other symptoms? Are you infected?

- An unknown disease has been isolated in Science Gallery.
- Your electronic tag monitors your state of infection.
- Stay away from infected visitors and objects.
- If you do become infected, proceed immediately to the disinfection station.

INFECTIOUS is a major new exhibition exploring mechanisms of contagion and strategies of containment through science and art. It includes a live epidemic simulation, an opportunity to have your DNA analysed and to get up close and intimate with a Petri dish in our Kiss Culture experiment.

Welcome to the show!

Michael John Gorman — DIRECTOR, SCIENCE GALLERY

INFECTIOUS STAY AWAY

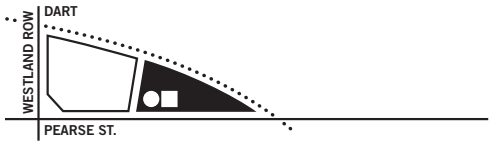
RECOMMENDED DOSE:

VISIT AS MANY TIMES AS REQUIRED.
NOT SUITABLE FOR PEOPLE UNDER 15 YEARS OF AGE.
17 APRIL 09–17 JULY 09: TUE–FRI 12:00–20:00
& SAT–SUN 12:00–18:00 ADMISSION FREE.

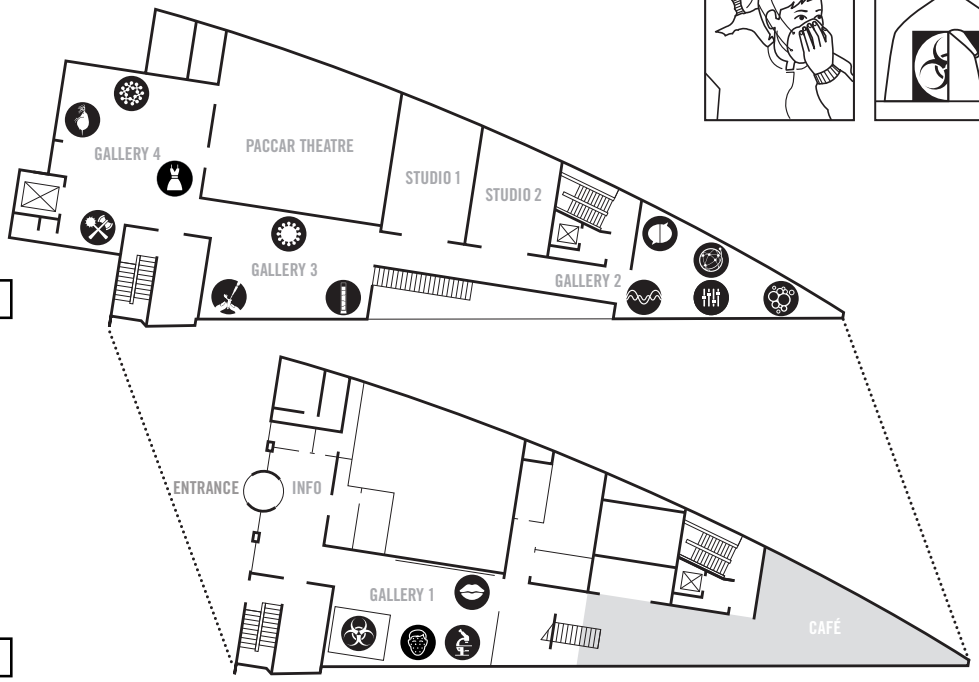
SCIENCE GALLERY

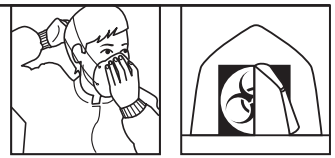
SCIENCE GALLERY, PEARSE ST,
TRINITY COLLEGE, DUBLIN 2.
T: +353 (01) 896 4091

EXP: 17 07 2009



WWW.SCIENCEGALLERY.COM/INFECTIOUS





VISITOR INFORMATION:

PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY.

1. You must wear your tag throughout your visit to INFECTIOUS to allow us to monitor your state of infection. **Ensure that you return your tag before leaving Science Gallery.**

2. Don't touch any of the objects unless instructed to do so. Photography is encouraged.

IF YOU HAVE ANY QUESTIONS OR ARE IN DOUBT ABOUT ANYTHING CONTACT A SCIENCE GALLERY MEDIATOR IMMEDIATELY. KEEP THIS LEAFLET IN A SAFE PLACE.

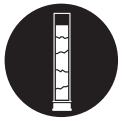
CHECKPOINT

Enter the quarantine zone and prepare to be screened for signs of contagion. Following examination you'll be electronically tagged to monitor your infectious state as you move through the exhibition.

STIGMATISED

A drawing series inspired by early medical textbooks, household physician guides and fairy tale illustrations. The images present an illuminated atlas of the outward signs of infection and explore the ways visual representations inform our knowledge, inner fears and aversion to illness.

Karl Grimes, Ireland.



WINOGRADSKY COLUMN

Abundant microbes in this sealed glass environment will multiply and evolve over the course of the exhibition to create a continuously changing living display. Each species of bacteria is adapted to a different layer of the column yet remains interdependent on the other species in the container.

IMMUNE LAB

Extract some of your own DNA and find out about your immunity to certain diseases while contributing to real research by Trinity College immunologists. Following analysis of your sample in the PCR (Polymerase Chain Reaction) machine, researchers will post test results for secure viewing via the web.

FUGUE

Linking the musical form of the fugue with an artificial immune system algorithm unfolding in real time, this work reflects the changes and cascading responses that occur within the real human immune system and expresses them through images and sound.

Gordana Novakovic, UK.

NOBODY LEAVES 'TIL THE DAPHNIA SING

Listen to music made from the swimming motions of so-named water fleas and hear how these tiny crustaceans change their tune when infectious material enters their environment. Watch under the microscope as the threat of contagion alters the patterns of their movements and vocalisations.

Sean Taylor & Mikael Fernstrom, Ireland

EPIDEMIC PLANET

Explore how high-speed air travel whisks new strains of influenza around the globe and how effective measures to prevent pandemic may pose daunting ethical and political challenges.

Vittoria Colizza, Wouter Van den Broeck, D. Balcan, B. Goncalves, H. Hu, J.J. Ramasco, A. Vespignani, Italy, USA, Belgium.

CYBERNETIC BACTERIA 2.0

The chemical communication of bacteria and the live data streams of our own digital networks combine in real time to generate a brand new artificial life form. This installation explores the layers of complexity in both digital and organic communications networks and investigates the relationship of bacteria to artificial life.

Anna Dumitriu, Dr. Simon Park, Dr. Blay Whitby, Tom Keene & Lorenzo Grespan, UK.

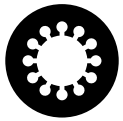
KISS CULTURE

Kiss an agar plate to discover the natural flora you carry on your lips and nose. Your plate once incubated will contribute to the growing wall of cultured kisses on display within INFECTIOUS. Warning: this exhibit contains sterilized horse blood.

Maria Phelan, Ireland

UNDER THE MICROSCOPE

Examine some of the world's most feared pathogens up close and personal in the INFECTIOUS Microscopy Lab. Check out magnified bacteria such as anthrax and *E.coli* alongside the immune system cells that help to protect us.



GLASS VIRUSES

Responding to the ubiquitous media images of artificially coloured viruses, these transparent sculptures challenge our received notions and ask whether some scientific images are designed and used to promote fear.

Luke Jerram, UK.

HORDE

An immersive audio visual installation representing the workings of the immune system in the style of an epic Irish myth, Horde explores the complexity of the immune response by drawing parallels between a salmonella infection in the gut and a large-scale ancient battle.

David Bickley, Tom Green & Dr. John Mac Sharry, Ireland.

BACTERIOLOGY ILLUSTRATED

This unique corseted dress is made from 15,860 fragments of a book illustrating some of the modern armoury of defence strategies we employ to combat the ever-changing threat from infectious organisms.

Susie Freeman & Dr. Liz Lee, U.K.

SOCIOPATTERNS

How a digital infection spreads within a public exhibition mirrors the mechanisms of other kinds of contagion. Find out how network scientists are using radio frequency tagging to understand the patterns of human interaction within the Science Gallery.

Ciro Cattuto & Wouter Van den Broeck, in collaboration with Alain Barrat, Jean-Francois Pinton, Vittoria Colizza & Alessandro Vespignani, Italy, USA, France, Belgium.

SIMULATION LAB

Manipulate your own epidemic with this computer simulation allowing you to control factors such as recovery time and immunity. Watch the people infect each other and see how the spread of the epidemic changes.

CONTAGIOUS CREATIVITY

In this artistic experiment three forms of creation — sound, illustration and cellular automata — were exposed to each other to produce a dynamic organism that feeds on inspiration and then grows, mutates and spreads.

Alo Allik, Annika Koski & Simon Jermyn, Estonia, Finland, Ireland.