

stored bits determined its symmetry character — symmetric, antisymmetric or a superposition of both. The spin wavefunction also controlled the spatial wavefunction through the direct link between their symmetries, and so determined the collisional properties. Thus, the state of the quantum bits controlled the atoms' interactions.

To prepare, manipulate and detect the atomic states, Anderlini *et al.*<sup>2</sup> used a sophisticated technology developed by them and other groups in recent years. A large number (about 10,000) of isolated pairs of atoms are held in microscopic optical traps formed by interfering laser beams. The atoms in any given pair can be held separately, or brought together to interact.

The authors also developed a procedure to map out the quantum-bit content of each atom of a pair. By carefully switching off the optical trap, and with the help of magnetic-field gradients, the atoms can be distributed in space according to their quantum state. Projections of the quantum bits can then be read from a photographic image of this atomic distribution. The authors obtained a strong signal by simultaneously probing all of the pairs in the atomic ensemble, whose quantum states had undergone an identical evolution in parallel. By taking repeated measurements at different time intervals, they were able to map out this evolution.

In the first experiment with their system, Anderlini *et al.* tested an exchange of quantum information between two atoms. For this 'SWAP' operation, two atoms are initially held at separate sites and their individual quantum-bit states are set to 1 and 0 using radio-frequency radiation. The sites are then merged slowly enough that the two atoms end up in different trap states, but quickly enough that the wavefunction of the atoms is in a quantum superposition of the symmetric and antisymmetric states. These two states have different energies, so a quantum oscillation takes place in which the bit information is repeatedly exchanged between the atoms. To move from a SWAP operation to real quantum-computational operation is not, in principle, a big leap. By letting the atoms interact for only half of the time needed for a SWAP, one creates a quantum-mechanical correlation, known as entanglement, which is the basis for quantum computation.

There are many systems other than cold, colliding atoms that can make use of exchange symmetry for quantum computation: for example, coupled electron spins in a solid-state double quantum dot<sup>3,4</sup>. Here, again, antisymmetric and symmetric wavefunctions lead to different effective interactions between the electrons. Equally, when two identical light particles, photons, arrive from different directions at a beamsplitter — a partially reflecting mirror at which an impinging photon can be either transmitted or reflected — they always end up travelling together as if

strongly attracted to one another. The photons respond to each other not because of interaction forces, but because of their symmetry of state. This effect, first described in 1987 by Hong, Ou and Mandel<sup>5</sup>, is now used in experiments on photon-based quantum computation<sup>6,7</sup>.

What are the advantages of symmetry-based computation for atoms? Other schemes not involving exchange symmetry could do the job. But as Anderlini *et al.*<sup>2</sup> point out, these schemes place a number of requirements on the atoms that are more stringent than those of the exchange-symmetry scheme. Furthermore, these state-dependent schemes are more likely to suffer decoherence — loss of quantum information — through state-dependent coupling to the environment. In general, exchange-symmetry schemes should be less susceptible to the noise that plagues highly precise apparatus.

So, how far are we from a working quantum computer? A long way: there are still various issues to resolve, including efficiency, fidelity, decoherence and scalability. But scientists all over the world are closing in on this goal from many different directions. New ideas such as

making use of fundamental symmetries could ultimately provide new lines of attack. In view of all of the recent work in the field of quantum computation, we are perhaps experiencing a 'paradigm shift' for controlling the quantum-bit interactions, from schemes controlled by forces to schemes driven by symmetries. ■

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## IMMUNOLOGY

# Sensing the enemy within

Hongbo Chi and Richard A. Flavell

**Damaged or foreign DNA stimulates immune responses by inducing the production of interferon proteins. New evidence indicates that this response is mediated by a cytosolic DNA sensor known as DAI.**

On infection by a pathogen, the immune system rapidly mounts defence mechanisms, characterized by massive production of interferon proteins and other cytokines (immune mediators). This reaction, known as the innate immune response, is mediated by pattern-recognition receptors that detect conserved structures found in a broad range of pathogens. The best-studied receptors of this type are Toll-like receptors (TLRs) — a class of membrane receptor that senses microbes either in the extracellular space or intracellular compartments<sup>1</sup>. So how do host cells fight pathogens that have entered their cytosol? Intracellular sensors that can detect microbial products, including viral RNA and bacterial cell-wall components, in the cytosol have been identified<sup>2</sup>. Now, Takaoka *et al.*<sup>3</sup> report on page 501 of this issue the identification of another cytosolic factor called DAI (also known as DLM-1 or ZBP1) as a DNA sensor.

Although host nucleic acids are normally sequestered in the nucleus and are therefore safe from recognition by cellular receptors, the immunostimulatory activity of DNA and RNA has long been recognized. In 1963, two groups<sup>4,5</sup> — including one led by the discoverer of interferon, Alick Isaacs — reported

that DNA and RNA derived from pathogens or host cells can activate interferon production in chicken and mouse fibroblast cells. But the cellular receptors for nucleic acids remained unknown for almost four decades.

In the early 2000s, specific TLRs that detect immunostimulatory nucleic acids during infection or tissue damage were identified<sup>6</sup>. For example, TLR9 recognizes DNA sequences that contain specific motifs known as unmethylated CpG dinucleotides, features common to microbial, but not mammalian, DNA. In addition, TLR3 and TLR7/TLR8 sense double-stranded RNA (dsRNA) and single-stranded RNA (ssRNA), respectively<sup>7</sup>. Engagement of TLRs initiates a molecular signalling cascade that leads to the activation of essential gene transcription factors, including interferon-regulated factors (IRFs) and NF- $\kappa$ B. This cascade ultimately leads to the production of type I interferon (interferon- $\alpha$  and - $\beta$ ) and proinflammatory cytokines to fight infectious organisms<sup>8</sup> (Fig. 1, overleaf).

Despite the importance of TLRs in recognizing nucleic acids, alternative receptors must exist. This is because nucleic-acid-specific TLRs are localized in intracellular compartments such as endosomes, which

# Sensing The Enemy

**Meiping Wu, Yifeng Niu, Mancang Gu, Jin  
Cheng**

## **Sensing The Enemy:**

Wiring Vietnam Anthony J. Tambini, 2007-05-30 During the Vietnam War the U S Army deployed electronic sensors along the Ho Chi Minh Trail in Laos Cambodia North Vietnam and South Vietnam in order to detect and track troop and vehicle movements At approximately 8 100 miles in length monitoring this sophisticated logistics network consisting of roads trails vehicle parks petroleum pipelines and storage areas was no mean task Since the work was classified as Secret until only recently a comprehensive story of the electronic sensors used in Southeast Asia has never been completely told Wiring Vietnam The Electronic Wall relates the history of the electronic detection system that was deployed during the Vietnam War Author Anthony Tambini covers everything from the sensors used to detect seismic signals from nearby troop and vehicle movements to audio sensors that were deployed to pick up conversations of troops as well as traffic noise of vehicles to engine ignition detectors Beginning with the conception development and implementation of these sensors Tambini then relates how ultimately the various signals the sensors collected were transmitted to orbiting aircraft that would process and retransmit the signals onward to a base in Thailand There the data underwent further analysis for possible targets that could be attacked from the air Anthony Tambini a member of the 25th Tactical Fighter Squadron based at Ubon Thailand in the late 1960s was part of an organization that dropped these sensors His firsthand perspective along with rarely seen photographs of the actual sensors used will provide those interested in the Vietnam War and modern warfare with a clear picture of an undocumented side of history

*Principles of Wireless Sensor Networks* Mohammad S. Obaidat, Sudip Misra, 2014-12-04 Wireless sensor networks are an emerging technology with a wide range of applications in military and civilian domains The book begins by detailing the basic principles and concepts of wireless sensor networks including information gathering energy management and the structure of sensory nodes It proceeds to examine advanced topics covering localisation topology security and evaluation of wireless sensor networks highlighting international research being carried out in this area Finally it features numerous examples of applications of this technology to a range of domains such as wireless multimedia underwater and underground wireless sensor networks The concise but clear presentation of the important principles techniques and applications of wireless sensor networks makes this guide an excellent introduction for anyone new to the subject as well as an ideal reference for practitioners and researchers

*Proceedings of the Second International Conference on Active Media Technology, Chongqing, PR China, 29-31 May 2003* Jian Ping Li, Jiming Liu, Ning Zhong, 2003 This book captures the essence of the current state of research in active media technology and identifies the new changes and opportunities both current and future in the field Distinguished researchers such as Prof Ning Zhong from the Maebashi Institute of Technology Prof John Yen from the Pennsylvania State University and Prof Sanker K Pal from the Indian Statistical Institute present their research papers

**The Collected Works of the Thirty-second Chief of Staff, United States Army** Gordon R. Sullivan, 1996

Killer Apps Jeremy Packer, Joshua Reeves, 2020-02-28 In Killer Apps

Jeremy Packer and Joshua Reeves provide a detailed account of the rise of automation in warfare showing how media systems are central to building weapons systems with artificial intelligence in order to more efficiently select and eliminate military targets Drawing on the insights of a wide range of political and media theorists Packer and Reeves develop a new theory for understanding how the intersection of media and military strategy drives today's AI arms race They address the use of media to search for enemies in their analyses of the history of automated radar systems the search for extraterrestrial life and the development of military climate science which treats the changing earth as an enemy As the authors demonstrate contemporary military strategy demands perfect communication in an evolving battlespace that is increasingly inhospitable to human frailties necessitating humans replacement by advanced robotics machine intelligence and media systems The Engineer ,1998 **Proceedings of the International Congress on Information and Communication Technology**

Suresh Chandra Satapathy,Yogesh Chandra Bhatt,Amit Joshi,Durgesh Kumar Mishra,2016-06-08 This volume contains 69 papers presented at ICICT 2015 International Congress on Information and Communication Technology The conference was held during 9th and 10th October 2015 Udaipur India and organized by CSI Udaipur Chapter Division IV SIG WNS SIG e Agriculture in association with ACM Udaipur Professional Chapter The Institution of Engineers India Udaipur Local Centre and Mining Engineers Association of India Rajasthan Udaipur Chapter This volume contains papers mainly focused on ICT for Managerial Applications E governance IOT and e Mining **Handbook of Sensor Networks** Ivan Stojmenovic,2005-09-19

The State Of The Art Of Sensor Networks Written by an international team of recognized experts in sensor networks from prestigious organizations such as Motorola Fujitsu the Massachusetts Institute of Technology Cornell University and the University of Illinois Handbook of Sensor Networks Algorithms and Architectures tackles important challenges and presents the latest trends and innovations in this growing field Striking a balance between theoretical and practical coverage this comprehensive reference explores a myriad of possible architectures for future commercial social and educational applications and offers insightful information and analyses of critical issues including Sensor training and security Embedded operating systems Signal processing and medium access Target location tracking and sensor localization Broadcasting routing and sensor area coverage Topology construction and maintenance Data centric protocols and data gathering Time synchronization and calibration Energy scavenging and power sources With exercises throughout students researchers and professionals in computer science electrical engineering and telecommunications will find this an essential read to bring themselves up to date on the key challenges affecting the sensors industry Wireless Sensor Networks S. R.

Vijayalakshmi,S. Muruganand,2018-04-25 Wireless Sensor Networks is an essential guide for anyone interested in wireless communications for sensor networks home networking or device hacking It covers a large number of topics encountered in the architecture application and recent advancements of a wireless sensor network including hardware and software architectures the Internet of Things routing and security MANETs MEMS Zigbee TDMA securing networks for WiFi

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**How Systems Form and How Systems Break** Chiang H. Ren, 2016-08-04 Our world is composed of systems within systems the machines we build the information we share the organizations we form and elements of nature that surround us Therefore nearly every field of study and practice embodies behaviors stemming from system dynamics Yet the study of systems has remained somewhat fragmented based on philosophies methodologies and intentions Many methodologies for analyzing complex systems extend far beyond the traditional framework of deduction evaluation and may thus appear mysterious to the uninitiated This book seeks to dispel the mysteries of systems analysis by holistically explaining the philosophies methodologies and intentions in the context of understanding how all types of systems in our world form and how these systems break This presentation is made at the level of conceptual understanding with plenty of figures but no mathematical formulas for the beginning student and interested readers new to studying systems Through the conceptual understanding provided students are given a powerful capability to see the hidden behaviors and unexplained consequences in the world around us

**Theory and Practice of Wireless Sensor Networks: Cover, Sense, and Inform** Habib M. Ammari, 2022-10-03 This book aims at developing a reader's thorough understanding of the challenges and opportunities of two categories of networks namely k covered wireless sensor networks and k barrier covered wireless sensor networks It presents a variety of theoretical studies based on percolation theory convexity theory and applied computational geometry as well as the algorithms and protocols that are essential to their design analysis and development Particularly this book focuses on the cover sense and inform CSI paradigm with a goal to build a unified framework where connected k

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This book includes original peer reviewed research papers from the ICAUS 2021 which offers a unique and interesting platform for scientists engineers and practitioners throughout the world to present and share their most recent research and innovative ideas The aim of the ICAUS 2021 is to stimulate researchers active in the areas pertinent to intelligent unmanned systems The topics covered include but are not limited to Unmanned Aerial Ground Surface Underwater Systems Robotic Autonomous Control Navigation and Positioning Architecture Energy and Task Planning and Effectiveness Evaluation Technologies Artificial Intelligence Algorithm Bionic Technology and Its Application in Unmanned Systems The papers showcased here share the latest findings on Unmanned Systems Robotics Automation Intelligent Systems Control Systems Integrated Networks Modeling and Simulation It makes the book a valuable asset for researchers engineers and university students alike **U.S. Government Research & Development Reports** ,1965 *Bibliography of Scientific and Industrial Reports* ,1965-07 *Technical Paper - Army Research Institute for the Behavioral and Social Sciences* ,1978 The Art of Information War Andrew H. Nelson,2013-03-14 The first edition of this book was published in 1995 At that time a very limited number were printed with a very closed and exclusive distribution of those prints in order to communicate and share first principles as we developed our capabilities There are eternal principles of war that endure through time technology concepts of operation and organizational change This is a book of first principles It is for the reader to judge if these principles of war still ring true For those of us with the first copy of the book I salute you for your quiet dedication to the service of your country We are well prepared now thanks to you for the wars we are fighting now in this domain For our enemies read this and learn It will help you improve definitely but it should give you pause We were light years ahead of where you are now in 1995 and weve had all this time to improve Be warned Dictionary of Occupational Titles ,1991

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