

Interacting Or Interfering

Small interfering RNA

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Small interfering RNA (siRNA), sometimes known as short interfering RNA or silencing RNA, is a class of double-stranded non-coding RNA molecules, typically 20–24 base pairs in length, similar to microRNA (miRNA), and operating within the RNA interference (RNAi) pathway. It interferes with the expression of specific genes with complementary nucleotide sequences by degrading messenger RNA (mRNA) after transcription, preventing translation. It was discovered in 1998 by Andrew Fire at the Carnegie Institution for Science in Washington, D.C. and Craig Mello at the University of Massachusetts in Worcester.

Primer (film)

himself from any communication with the outside world, so as not to interact or interfere with the outside world, after which he enters the box then waits

Primer is a 2004 American independent science fiction film written, directed, produced, edited, and scored by Shane Carruth in his feature debut. The film stars Carruth and David Sullivan, and depicts the events surrounding the accidental discovery of time travel.

Primer is noted for its extremely low budget, experimental plot structure, philosophical implications, and complex technical dialogue, which Carruth, a college graduate with a degree in mathematics and a former engineer, chose not to simplify for the sake of the audience. The film won the Grand Jury Prize Dramatic at the 2004 Sundance Film Festival, before securing a limited release in the United States, and has since gained a cult following.

Magic: The Gathering

classical elements of air and water. Many of Blue's spells can interact or interfere with the opponent's spells as well as with the general flow of the

Magic: The Gathering (colloquially known as Magic or MTG) is a collectible card game, tabletop, and digital collectible card game created by Richard Garfield. Released in 1993 by Wizards of the Coast, Magic was the first trading card game and had approximately fifty million players as of February 2023. Over twenty billion Magic cards were produced in the period from 2008 to 2016, during which time it grew in popularity. As of the 2022 fiscal year, Magic generates over \$1 billion in revenue annually.

Players in a game of Magic represent powerful dueling wizards called Planeswalkers. Each card a player draws from their deck represents a magical spell which can be used to their advantage in battle. Instant and Sorcery cards represent magical spells a player may cast for a one-time effect, while Creature, Artifact, Enchantment, Planeswalker, and Battle cards remain on the Battlefield to provide long-term advantage. Players usually must include resource, or Land cards representing the amount of mana that is available to cast their spells. Typically, a player defeats their opponent(s) by reducing their life totals to zero, which is commonly done via combat damage by attacking with creatures. Many other sources of damage exist in the game, in addition to alternative win-conditions which do not check life totals.

Although the original concept of the game drew heavily from the motifs of traditional fantasy role-playing games such as Dungeons & Dragons, the gameplay bears little similarity to tabletop role-playing games, while simultaneously having substantially more cards and more complex rules than many other card games.

Magic can be played by two or more players, either in person with paper cards or on a computer, smartphone or tablet with virtual cards through Internet-based software such as Magic: The Gathering Online, Magic: The Gathering Arena, Magic Duels and several others. It can be played in various rule formats, which fall into two categories: constructed and limited. Limited formats involve players creating a deck spontaneously out of a pool of random cards typically with a minimum deck size of 40 cards. In constructed formats, players create decks from cards they own, usually with a minimum of 60 cards per deck.

New cards are released on a regular basis through expansion sets. Further developments include the Wizards Play Network played at the international level and the worldwide community Players Tour, as well as a substantial resale market for Magic cards. Certain cards can be valuable due to their rarity in production and utility in gameplay, with prices ranging from a few cents to tens of thousands of dollars.

Twitch (service)

was criticized by users because it caused a significant stream delay, interfering with broadcaster-viewer interaction.[citation needed] Twitch staff said

Twitch is an American video live-streaming service popular in video games, including broadcasts of esports competitions. It also offers music broadcasts, creative content, and "in real life" streams. Twitch is operated by Twitch Interactive, a subsidiary of Amazon. It was introduced in June 2011 as a spin-off of the general-interest streaming platform Justin.tv.

Content on the site can be viewed either live or via video on demand. The games shown on Twitch's current homepage are listed according to audience preference and include genres such as real-time strategy games, fighting games, racing games, and first-person shooters.

The popularity of Twitch eclipsed that of Justin.tv. In October 2013, the website had 45 million unique viewers, and by February 2014, it was considered the fourth-largest source of peak Internet traffic in the United States. At the same time, Justin.tv's parent company was re-branded as Twitch Interactive to represent the shift in focus when Justin.tv was getting shut down in August 2014. The same month, the service was acquired by Amazon for US\$970 million, which later led to the introduction of synergies with the company's subscription service Amazon Prime.

By 2015, Twitch had more than 100 million viewers per month. In 2017, Twitch remained the leading live-streaming video service for video games in the US, and had an advantage over YouTube Gaming, which shut down its standalone app in May 2019. As of February 2020, it had three million broadcasters monthly and 15 million active users daily, with 1.4 million average concurrent users. As of May 2018, Twitch had over 27,000 partner channels. As of January 2025, Twitch was the 30th-most-visited website in the world with 23.46% of its traffic coming from the United States, followed by Russia with 8.87%, Germany with 7.08% and France with 6.26%. In late 2023, Twitch announced that they would stop operating in South Korea in 2024 because of its network fee policy, citing prohibitive costs.

Piwi-interacting RNA

Piwi-interacting RNA (piRNA) is the largest class of small non-coding RNA molecules expressed in animal cells. piRNAs form RNA-protein complexes through

Piwi-interacting RNA (piRNA) is the largest class of small non-coding RNA molecules expressed in animal cells. piRNAs form RNA-protein complexes through interactions with piwi-subfamily Argonaute proteins. These piRNA complexes are mostly involved in the epigenetic and post-transcriptional silencing of transposable elements and other spurious or repeat-derived transcripts, but can also be involved in the regulation of other genetic elements in germ line cells.

piRNAs are mostly created from loci that function as transposon traps which provide a kind of RNA-mediated adaptive immunity against transposon expansions and invasions. They are distinct from microRNA (miRNA) in size (26–31 nucleotides as opposed to 21–24 nt), lack of sequence conservation, increased complexity, and independence of Dicer for biogenesis, at least in animals. (Plant Dcl2 may play a role in rasi/piRNA biogenesis.)

Double-stranded RNAs capable of silencing repeat elements, then known as repeat associated small interfering RNA (rasiRNA), were proposed in *Drosophila* in 2001. By 2008, it was still unclear how piRNAs are generated, but potential methods had been suggested, and it was certain their biogenesis pathway is distinct from miRNA and siRNA, while rasiRNA is now considered a piRNA subspecies.

Ground rules

defined to handle situations in which these objects may interact or interfere with the ball in play or with the players, and adaptable by ballpark within the

Ground rules are rules applying to the field, objects on and near it, and special situations relating to them, in the game of baseball. Major League Baseball has defined a set of "universal ground rules" that apply to all MLB ballparks; individual ballparks have the latitude to set ground rules above and beyond the universal ground rules, as long as they do not directly contradict each other. Additionally, a set of universal ground rules exists for the six MLB stadiums with retractable roofs, with the individual ballparks able to set additional rules.

Unlike the well-defined playing field of most other sports, the playing area of a baseball field extends to an outfield fence in fair territory and the stadium seating in foul territory. The unique design of each ballpark, including fences, dugouts, bullpens, railings, stadium domes, photographer's wells and TV camera booths, requires that rules be defined to handle situations in which these objects may interact or interfere with the ball in play or with the players, and adaptable by ballpark within the universal rules.

The term is familiar to most fans through the ground rule double, a batted ball that bounces fair, then over the outfield fence in fair or foul territory for a two-base hit. This is, in fact, not a ground rule, as it is universally applicable to any baseball field.

Zilebesiran

being evaluated for the treatment of high blood pressure. It is small interfering RNA that is administered subcutaneously twice annually to lower blood

Zilebesiran is an investigational new drug developed by Roche and Alnylam that is being evaluated for the treatment of high blood pressure.

It is small interfering RNA that is administered subcutaneously twice annually to lower blood pressure in people already taking other antihypertensive drugs. It works by impeding the synthesis of angiotensinogen in the liver.

Small RNA

have been identified, including piwi-interacting RNA (piRNA) and its subspecies repeat associated small interfering RNA (rasiRNA). Small RNA "is unable

Small RNA (sRNA) are polymeric RNA molecules that are less than 200 nucleotides in length, and are usually non-coding. RNA silencing is often a function of these molecules, with the most common and well-studied example being RNA interference (RNAi), in which endogenously (from within the organism) expressed microRNA (miRNA) or endogenously/exogenously (from outside the organism) derived small

interfering RNA (siRNA) induces the degradation of complementary messenger RNA. Other classes of small RNA have been identified, including piwi-interacting RNA (piRNA) and its subspecies repeat associated small interfering RNA (rasiRNA). Small RNA "is unable to induce RNAi alone, and to accomplish the task it must form the core of the RNA–protein complex termed the RNA-induced silencing complex (RISC), specifically with Argonaute protein".

Small RNA have been detected or sequenced using a range of techniques, including directly by MicroRNA sequencing on several sequencing platforms, or indirectly through genome sequencing and analysis. Identification of miRNAs has been evaluated in detecting human disease, such as breast cancer. Peripheral blood mononuclear cell (PBMC) miRNA expression has been studied as potential biomarker for different neurological disorders such as Parkinson's disease, Multiple sclerosis. Evaluating small RNA is useful for certain kinds of study because its molecules "do not need to be fragmented prior to library preparation".

Huygens principle of double refraction

wavefronts or wavelets: spherical wavefronts and ellipsoidal wavefronts. These secondary wavelets, originating from different points, interact and interfere with

Huygens principle of double refraction, named after Dutch physicist Christiaan Huygens, explains the phenomenon of double refraction observed in uniaxial anisotropic material such as calcite. When unpolarized light propagates in such materials (along a direction different from the optical axis), it splits into two different rays, known as ordinary and extraordinary rays. The principle states that every point on the wavefront of birefringent material produces two types of wavefronts or wavelets: spherical wavefronts and ellipsoidal wavefronts. These secondary wavelets, originating from different points, interact and interfere with each other. As a result, the new wavefront is formed by the superposition of these wavelets.

Decoder pen

which eliminated a visually interfering red pattern. Infocom sold similar hint books called "Invisiclues" for their interactive fiction games. "Confidential

The decoder pen, yes-no pen, yes-know pen or magic pen book is a combination of decoder pen or marker specially designed to reveal invisible ink-encoded pictures or writing, in the form of answers to questions or hidden parts of pictures, with specially created children's books with hidden words and pictures. They were most popular in the 1970s, but continue to be sold at gift shops. Often they were in the form of trivia games, which enabled the player to guess before revealing the answer. Brands of books for use with decoder pens include Yes & Know, and surprise Ink.

However, the pen and paper can be damaged easily if excessive rubbing is used. Therefore, most invisible ink books contain an advisory saying to use a very gentle back and forth motion - not a circular grinding motion, when using the books.

Fans of the adventure games released by Sierra Entertainment in the 1980s such as King's Quest and Space Quest are also familiar with the decoder pen, which was used to reveal the answers to hints in the hints book sold for each game. Eventually these were replaced by a colored translucent plastic window, which eliminated a visually interfering red pattern.

Infocom sold similar hint books called "Invisiclues" for their interactive fiction games.

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