

Smelling, Seeing, Tasting—Old Senses for New Sensing

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ABSTRACT: The senses are the physiological mechanisms of perception that enable an organism to interact with the surrounding media. For centuries, humans have utilized these senses in science; vision and olfaction have been used the most extensively in laboratories followed by gustation and somatosensation, whereas audition has only rarely been employed. Most of these applications of senses were developed spontaneously based on the natural behavior of the chemistry of the reactants producing changes in scent, taste, or color. In recent years, by exploiting the outstanding properties of nanoparticles, many groups have demonstrated alternative sensing scenarios where the detection limits are remarkably improved, enabling the recognition of hazardous substances by mere sight, smell, or taste. Such alternative sensing approaches can be divided into two main groups: (i) methods that identify a single analyte by engineering a reaction that promotes a change in color or the generation of a characteristic scent, and (ii) methods that emulate or even improve mammalian senses, especially those related to taste and smell. In this Perspective, we discuss the context of each technology, present prominent examples, and evaluate the complexities, potential pitfalls, and opportunities presented by different re-engineering strategies.



Prompt, sensitive, and accurate responses of analytical techniques for resolving detection issues, in particular those related to health or the environment, have always been key aspects of (applied) science. The detection/identification of molecules, cells, or tissues with biological or environmental significance has traditionally employed sensing technologies involving two major complementary approaches: direct and indirect (lock-and-key) sensing. The conventional direct method is based on interactions between the analyte and the sensing element to generate a change that can be transduced into a specific and recognizable signal. To date, many analytical tools based on different physical, chemical, and biological phenomena have been developed for the direct structural characterization of biomolecules, biosensing, bio-diagnosis, and biomedical imaging (including mass spectrometry, nuclear magnetic resonance, ultraviolet–visible (UV–vis), Raman or fluorescence spectroscopies, electrochemistry, or chromatography, among others). Conversely, lock-and-key sensors rely on specific recognition events such as antibody–antigen, with widespread techniques like enzyme-linked immunosorbent assay (ELISA) and fluorescence (FIA) or radio-immunoassays (RIA), which can discern the target analyte among a myriad of other molecular entities within a complex sample. However, none of these direct or lock-and-key methods have thus far been able to fulfill all the needs of modern biomedicine because they are time-consuming, often

have relatively poor detection limits, and/or demand special requirements that make them unsuitable for implementation in common biomedical laboratories. In recent years, as an alternative to these classic detection methods, a new family of sensors has been developed, building on the exploitation or even emulation of the primordial sensing elements of a living organism.

THE FIVE SENSES

The senses are the physiological mechanisms of perception, which enable an organism to interact with the surrounding media. Traditionally, five senses are recognized for mammals: sight (vision), hearing (audition), taste (gustation), smell (olfaction), and touch (somatosensation), which vary in efficiency between species. Vision is the ability of eyes to detect electromagnetic waves within the visible light range and for the brain to interpret the image. Gustation and olfaction are the two chemical senses of the body. Both rely on the interaction of the flavor or scent with receptors to identify their chemical nature. These senses are discussed extensively below. Somatosensation refers to the mechanical and thermal sensations in the skin, and audition involves the perception of medium vibrations that oscillate between 20 and 20,000 Hz.

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Smelling And Tasting:

Tasting and Smelling Gary K. Beauchamp, Linda Bartoshuk, 1997-09-05 Tasting and Smelling presents a comprehensive overview to research on these two important modes of perception The book offers a review of research findings on the biophysics neurophysiology and psychophysics of both senses as well as discussing the emotional component associated with taste and smell and clinical disorders affecting each of these two senses Tasting and Smelling answers how odors and flavors are perceived why we have favorites and what happens when our senses go awry This book is of interest to the researcher in perception cognition or neurophysiology

Smelling and Tasting Lillian Wright, 1995 This book introduces two closely related senses smelling and tasting

Smelling and Tasting Alvin Silverstein, Virginia B. Silverstein, Laura Silverstein Nunn, 2002-01-01 Describes the function of smells and tastes how the brain translates and processes these messages and the research in these areas

Smelling & Tasting Claire Llewellyn, Gill Matthews, 2004 One of a series on non fiction books for children working at Key Stage One Claire Llewellyn introduces us to our senses and how they can help us to understand what is happening around us so that we can survive in and enjoy our world

A Taste of the Science of Eating Garnt Dijksterhuis, 2024 Why do you taste what you taste and what about smelling Many books address good food but few go deeper explaining the processes behind smelling and tasting The book addresses the senses of smell and taste and the many more senses and their interactions during eating It also stresses the importance of psychology when you smell taste and eat Some of the other topics include flavour the working of the nose and olfactory cross adaptation the use of odorants the relation between emotion and eating and many more The book helps you understand why you like and eat food and shows the intriguing complexity of the area

Sensing the Past Mark Michael Smith, 2007 Smith s history of the sensate is destined to precipitate a revolution in our understanding of the sensibilities that underpinned the mentalities of past epochs David Howes author of *Sensual Relations Engaging the Senses in Culture and Social Theory* Mark M Smith presents a far ranging essay on the history of the senses that serves simultaneously as a good introduction to the historiography If one feels in danger of sensory overload from this growing body of scholarship Smith s piece is a useful preventive Leigh E Schmidt author of *Restless Souls The Making of American Spirituality* This is a masterful overview The history of the senses has been a frontier field for a while now Mark Smith draws together what we know with an impressive sensory range and encourages further work A really exciting survey Peter N Stearns author of *American Fear The Causes and Consequences of High Anxiety* Who would ever have guessed that a book on the history of the senses seeing hearing touching tasting and smelling could be informative thought provoking and at the same time most entertaining Ranging in both time and locale Mark Smith s *Sensing the Past* makes even the philosophy about the senses from ancient times to now both learned and exciting This work will draw scholars into under recognized subjects and lay readers into a world we simply but unwisely take for granted

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be in the HL Hunley submarine in which eight men worked cheek by jowl in near total darkness in a space 48 inches high 42 inches wide Often argued to be the first total war the Civil War overwhelmed the senses because of its unprecedented nature and scope rendering sight less reliable and Smith shows forcefully engaging the nonvisual senses Sherman s March was little less than a full blown assault on Southern sense and sensibility leaving nothing untouched and no one unaffected Unique compelling and fascinating The Smell of Battle The Taste of Siege offers readers way to experience the Civil War with fresh eyes A dictionary of the Kalispel or Flat-head Indian language, compiled by the missionaries of the Society of Jesus [or rather by J. Giorda Joseph Giorda,1879 **Tasting and Smelling** Katie Dicker,2011-03-01 Tasting and Smelling encourages children to think about how they use their sense of taste and smell Readers are introduced To The tastes and smells that we encounter in everyday life They are also asked to think about how they use their sense of smell to keep safe Sparklers is an exciting and substantial series of information books for pre school children that covers all key topic areas of the early years curriculum The books are designed to support and extend the learning of children aged 3 to 5 **Alberuni's India** Al-Biruni,1888 **Alberuni's India** Muḥammad ibn Aḥmad Bīrūnī,Eduard Sachau,1910 **A Course of Advanced Lessons in Clairvoyance and Occult Powers** Swami Panchadasi,1916 **Aging, Nutrition and Taste** Jacqueline B. Marcus,2019-04-15 Approximately 380 million people worldwide are 60 years of age or older This number is predicted to triple to more than 1 billion by 2025 Aging Nutrition and Taste Nutrition Food Science and Culinary Perspectives for Aging Tastefully provides research facts theories practical advice and recipes with full color photographs to feed the rapidly growing aging population healthfully This book takes an integrated approach utilizing nutrition food science and the culinary arts A significant number of aging adults may have taste and smell or chemosensory disorders and many may also be considered to be undernourished While this can be partially attributed to the behavioral physical and social changes that come with aging the loss or decline in taste and smell may be at the root of other disorders Aging adults may not know that these disorders exist nor what can be done to compensate This text seeks to fill the knowledge gap Aging Nutrition and Taste Nutrition Food Science and Culinary Perspectives for Aging Tastefully examines aging from three perspectives nutritional changes that affect health and well being food science applications that address age specific chemosensory changes compromised disease states and health and culinary arts techniques that help make food more appealing to diminishing senses Beyond scientific theory readers will find practical tips and techniques products recipes and menus to increase the desirability consumption and gratification of healthy foods and beverages as people age Presents information on new research and theories including a fresh look at calcium cholesterol fibers omega 3 fatty acids higher protein requirements vitamins C E D trace minerals and phytonutrients and others specifically for the aging population Includes easy to access and usable definitions in each chapter guidelines recommendations tables and usable bytes of information for health professionals those who work with aging populations and aging people themselves Synthesizes overall insights in overviews

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