

# ORGANIC SENSES

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October 10, 2025

## RECOMMENDED CITATION

mohammad looti (2025). *ORGANIC SENSES*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=42687>

## ORGANIC SENSES

**Primary Disciplinary Field(s):** Psychology, Physiology, Neurobiology

### 1. Core Definition

The organic senses refer to the body's intrinsic sensitivity to internal physiological changes, mediated by specialized receptors located within the visceral organs. This sensory system is crucial for monitoring the state of the body's internal environment, a process broadly known as interoception. While the body constantly executes a vast array of vital activities--including rhythmic heart beats, muscular contractions of the intestines, and metabolic processes in organs like the liver and spleen--only a fraction of this information rises to the level of conscious perception. For the most part, the normal, homeostatic functioning of these internal structures remains unnoticed.

Unlike exteroceptive senses that monitor the external world, the role of organic senses is fundamentally regulatory, often only capturing attention when significant disruption or pathology occurs. It frequently takes an illness, injury, or severe physiological upset to make an individual acutely aware of the existence and activity of their internal organs. Even when discomfort arises, the sensations are often poorly localized or diffuse, lacking the precision characteristic of somatic sensation.

### 2. Challenges in Study and Measurement

The study of organic senses presents significant methodological challenges due to the virtual inaccessibility of the receptors for direct, controlled experimentation. Much of what is known about this system is derived from anatomical studies, clinical observation, and physiological responses rather than direct manipulation of the sensory fibers in living subjects. Anatomical evidence highlights a key difference between the motor and sensory innervation of the viscera: the number of sensory (afferent) fibers embedded in some internal organs is estimated to be only about one-tenth the number of motor (efferent) fibers leading to them, suggesting a greater emphasis on output control than sensory feedback.

Furthermore, while internal organs contain sensory endings for pressure and pain, their distribution is highly uneven. This unevenness accounts for the paradoxical observation that organs such as the liver, spleen, kidneys, and intestines can often be handled, squeezed, or even surgically altered (cut or cauterized) under local anesthetic without causing acute discomfort. Yet, these same organs are capable of generating some of the most intense and excruciating forms of pain known, such as the distress caused by intestinal colic, gallstones, or kidney stones, indicating that pain is often triggered by mechanical or chemical distortions affecting the organ capsules or surrounding structures rather than cuts to the parenchyma itself.

### 3. Specific Sensitivity of the Stomach

Historically, the stomach has served as the most extensively investigated visceral organ, offering valuable insights into the scope of organic sensitivity. The stomach is responsive to a variety of mechanical, thermal, and chemical stimuli. It registers both warm and cold substances and reacts to specific chemical compounds, including alcohol and various spices, such as mustard and peppermint. The sensation of hunger, a powerful organic drive, is associated with the muscular contractions, or "pangs," that occur when the stomach is empty and its walls rub together.

Conversely, after the ingestion of a particularly large meal, the resultant distention of the stomach walls can trigger a pronounced feeling of pressure. Despite these demonstrable sensitivities to extreme states, the stomach typically functions beneath the threshold of conscious awareness during its ordinary, intermediate state of operation. This pattern underscores a general principle of organic sensitivity: the system is designed primarily to signal deviations from physiological norms rather than to provide continuous, high-fidelity monitoring.

### 4. Complex Nature of Organic Sensations

Many specialists in physiology and psychology posit that pure, isolated organic sensations are rare. Instead, the perception received from visceral organs is almost invariably a complex combination of multiple sensory inputs, including pain, pressure, and thermal registers (hot and cold). This blending occurs because visceral discomfort usually involves gross areas of the body containing a diverse array of receptors that are simultaneously activated.

The complexity of organic sensation is best exemplified by the experience of nausea, which is far more than simple stomach distress. Nausea is a profound, intricate reaction comprised of generalized discomfort localized in the stomach region, systemic muscular weakness, and a cascade of circulatory disturbances. These autonomic reactions, which accompany the primary discomfort, include profuse sweating, noticeable paling of the skin, the appearance of "goose flesh" (piloerection), and chills, demonstrating the wide-reaching influence of internal distress on the entire somatic and autonomic nervous systems.

### 5. Factors Affecting Organic Sensitivity

One significant variable influencing the perception and intensity of organic sensations is age. It has been reliably observed that overall organic sensitivity tends to decrease as individuals age. This physiological change has critical consequences in medical diagnostics, as the typical pain response to severe internal pathology may be attenuated or absent in older populations.

This age-related decrease in sensitivity accounts for the observation that acute, painful disorders of the internal organs, such as appendicitis or coronary thrombosis (heart attack), may be

experienced by older patients without the acute or typical discomfort expected in younger adults. The diminished signaling capacity can complicate the timely diagnosis and treatment of conditions where rapid intervention is essential, emphasizing the need for clinicians to rely on non-pain symptoms and objective measures when assessing visceral health in the elderly.

## 6. Further Reading

[Interoception \(Wikipedia\)](#)

[Nausea \(Wikipedia\)](#)

[Myocardial Infarction \(Wikipedia\)](#)

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