

2<sup>nd</sup> Global Summit on

# Hormones and Endocrine Disorders

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## Hormones and endocrine disorders

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The introduction of highly specific and sensitive radioimmuno assays has enabled the clinician to diagnose endocrine dysfunction accurately.

Studies have shown that unicellular organisms such as coliform bacilli can produce hormones (e.g insulin). It would seem likely that evolution has led to a change in the role of these 'hormones'. Initially they were probably part of an autocrine system where they had an effect within the unicellular organism. This led to an isocrine system where secretory products of adjacent cells had a local action on each other. With the development of specialized hormone secreting cells the paracrine system emerged. In this the specialist cell secretes a hormone which acts locally on other cells. A classic example is the pancreatic islet which contains cells secreting insulin, glucagon, pancreatic polypeptide or somatostatin. These are arranged in such a way that the secretion of one cell, such as that secreting somatostatin, can directly modulate an adjacent insulin-secreting cell. Increasing complexity and size of multicellular organisms resulted in the evolution of the endocrine system where groups of specialist cells forms glands which secreted hormones directly into an aqueous compartment such as the blood stream.

These chemical messengers then had a specific effect at a distance from the site of secretion on certain responsive tissues or target organs. These effects can be mediated in one of three ways. Hormones can alter the rate of synthesis of enzymes and other proteins, can influence the catalytic function of enzymes, or can affect the permeability of cell membranes.

### Biography

Ogaga was born on January 29, 1949 on Lagos Island. Between 1955 – 1967, he attended St. Patrick number one primary school Sapele, and St. Peter Claver College, Aghalokpi, all in Delta State, Nigeria. For his higher school certificate, he went to Government College, Ughelli, Delta State, Nigeria in 1968 and Federal School of Science, Onikan, Lagos from 1968 to 1970. He set up A clinic in 1993, specializing in Nutritional Medicine. He is the only person Nigeria that is practicing this form of medicine.

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