



UK, May 15, 2014 - Research involving **dental cavities** and **periodontal diseases** had an unintended result: the development of a **technique** that could locate the potential source of an infection by overtaking the normal processes of **pathogens**.

Researchers from The **University of Nottingham** and **G.S.K Consumer Healthcare** developed this **technique**.

This method makes it easy enough for the **bacteria** to be located by a smartphone camera, thanks to the **fluorescent** markers use to tag the **cells**.

Polymers were grown that essentially adhere to the **bacteria**, enabling their exact location to be determined.

The information appears in Nature Materials.

This research could be vital in countries in which advanced **laboratory techniques** are not available.

Prior to this study, locating the exact spot of the harmful bacteria from a serious medical or **dental** condition was challenging.

But that could change now. This new approach, referred to as **bacterial-instructed synthesis**, **nullifies** the need for an advanced **laboratory**.

This information could also provide a major boost based on the fact that the **polymers** are not difficult to acquire, they are cheap and widely available. The study could lead to a long list of other dental and medical benefits.