

# Meeting the Demands of our Growing Population



David Galbraith

Professor, School of Plant Sciences Full Member BIO5 Institute Full Member

## CURRENT RESEARCH

Innovative technologies lead to novel diagnostics, therapeutics, and cataloguing abilities

By 2050, scientists expect that eleven billion people will need to be fed across the world. The challenge, however, is that the amount of food currently produced will not be sufficient to meet the needs of this increased population. Dr. David Galbraith, of the University of Arizona, is motivated by this "Eleven Billion Person" problem, as well as other problems emerging within the biological, biomedical, and agricultural fields that adversely affect the health of this ever increasing global community. Recognized worldwide as an early pioneer in the development and use of flow cytometry and cell sorting, Dr. David Galbraith has a long and highly-cited track record of devising these and other biotechnological methods, instruments, and techniques to address critical problems in biology, biomedicine, and agriculture. Dr. Galbraith's 180 scholarly research articles, election as a Fellow of the American Association for the Advancement of Science in 2003, and many patents are evidence of his recognition within these fields.

The new techniques developed by Dr. Galbraith and his team address a variety of important general problems emerging as a direct consequence of our increasing world population, including: cataloging world-wide those remaining species of plants for conservation and future development purposes, providing novel diagnostics and therapeutic targets for disease at the level of single cells, and developing portable and cost-effective diagnostic tools for emerging pathogens. Dr. Galbraith's ability to devise and develop novel techniques that are then widely adopted give him and his team a unique perspective for tackling these examples of our global community's most pressing problems. By analyzing the...

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## AFFILIATION



University of Arizona

## EDUCATION

- B.A., in Biochemistry, 1973 , Cambridge Natural Sciences
- M.A., in Biochemistry, 1976 , Cambridge
- Ph.D., in Biochemistry, 1977 , Cambridge University

## AWARDS

- Elected Fellow, American Association for the Advancement of Science, 2003

## RESEARCH AREAS

Life Science, Diagnostics, Oncology / Cancer, Oncology / Cancer

## FUNDING REQUEST

Your contributions will support the continued research of Dr. David Galbraith, of the University of Arizona, as he continues to understand biology and biological systems at the level of single cells, single individuals, and within the context of a single world. Donations will support the necessary funding for each project with donations of \$250K or more having a substantial impact upon the operations of Dr. Galbraith's lab. In choosing to donate, you will play a role in finding solutions for the continued survival of an increasing population in the 21st century.

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