Advances in the pharmaceutical sciences over the past 50 years have contributed to public health by:
- Moving from description to mechanistic prediction
- Targeting for specificity of action
- Building ‘druggability’ features into drug design
- Optimising drugs, drug products and dosage regimens for patients through biopharmaceutics tools and PK/PD modelling
- Building quality and reproducibility into the manufacture of drug products
- Ensuring regulation reflects scientific developments
- Delivering better medicines, including generics, to patients

Will YOU be part of this future?
Changing the world by translating science into practice

Fifty years ago there were no effective medicines for the treatment of high blood pressure, the management of peptic ulcers often required surgery, and women had no reliable means of birth control. That was then.

Now, when pharmaceutical scientists look back, they can be proud of their achievements in bringing improvements to health. These developments span from the initial concept of a medicine and the selection of candidate compounds (‘drug discovery’) through laboratory and clinical assessment (‘drug development’) and approval by regulatory authorities, to the monitoring of clinical usage.

Effective translation of science into practice is the key to success in turning a molecule into a safe and effective medicine. In this flyer the biggest challenges are listed.

Recently, members of the Board of Pharmaceutical Sciences of FIP commissioned an article based on the opinions of influential pharmaceutical scientists from around the world to identify the main conceptual developments in their areas of research over the past 50 years. Go to www.fip.org/publications to read that article.

Access and read this document, and see how YOU can be part of the future success of the pharmaceutical sciences!