

The following lectures and workshop are being offered by the Medway School of Pharmacy during 2017/2018.

They are part of its contribution to the local community by the sharing with local organisations topics that reflect part of the wide range of research activities in the school.

## 'Ouch, it hurts'

What is pain, has it any benefits or does it only cause difficulties?

What can we do about it?

**Professor Alistair Mathie**

## 'Is the plant derived cancer agent fit for purpose?'

It is often necessary to synthesise copies of new drugs originating from plants.

This leads to designing ways to change the molecule to improve biological activity and improved potential as an anti-cancer agent.

**Dr Maxwell Casely-Hayford**

## 'Is nature's pharmacy as safe as you think?'

Herbal medicines are commonly used without health professionals' knowledge.

What is the risk of combining herbal and conventional medicines?

**Dr Sukvinder Bhamra**

## 'Drugs interact with drug targets in the body'

This lecture will describe how drugs influence communication in the body by binding to molecules called receptors.

**Dr Stephen Kelley**

## 'Valium with your fish and chips?'

Pollutants of pharmaceutical and personal care product origin in the aquatic environment and beyond is a concern of great interest.

The making of materials that would be capable of recognising these small molecules such that they could be detected and/or captured and removed is a primary research focus.

**Dr Andrew Hall (not evenings)**

## 'The biological clock and its impact on health'

The biological clock, located in the brain, is a fundamental driver regulating our daily routines.

Changes in its timing patterns can have a considerable impact on health, from depression through to cancer onset.

**Dr Gurprit Lall**

## 'How do the neurons in our body work?'

Using the toxin from the black widow spider a receptor called latrophilin was identified which is present in all neuronal cells.

Latrophilin, by sensing the micro-environment, controls the way neurons release neurotransmitters. It can be involved in ADHD and schizophrenia.

**Professor Yuri Ushkaryov**

## 'Personalised medicines in the 21st century'

During this lecture we will discuss the advantages and disadvantages of targeting medicines to cancer cells in order to decrease the side effects of the treatment

**Dr Natalie Lavignac**

## 'Understanding how kidney disease develops in order to find new treatments'

There are three million people in the UK with kidney disease.

Kidney disease can lead to renal failure that requires dialysis or kidney transplantation.

Our aim is to understand how kidney disease develops so that we can discover new treatments that prevent renal failure.

**Dr Elisa Vasilopoulou**

## 'Do our bodies respond in the same way to healthy diets?'

What are healthy diets and what is their importance?

Can we tell who may respond differently to healthy diets?

**Dr Ruey-leng Loo**

## 'An introduction to tablets and other solid dosage forms' Workshop, 3 hours. Wednesday afternoons only

Tablets are solid dose forms of medicines that enable patients to administer their own medicines.

They are designed and made to give a wide range of doses, duration of action and safety in use.

This will include making compressed and 3D printed tablets in the laboratory.

3D printed tablets enable individualised doses to be achieved.

**Dr Dimitrios Lamprou**

For booking see form on reverse

