

## 1. Highlights 2015-16

During AY 2015-16 the KTC reviewed 19 new invention disclosures and filed 6 new UK patent applications. In addition 10 UK patent applications progressed into the PCT phase and 22 National phase applications were filed on selected patent families.

The University completed 3 new exclusive technology & patent Licence deals and 3 further Option to Licence agreements. The licences were each for individual pieces of IPR whereas 2 of the Option agreements covered portfolios of patent families (one of 4 and one of 5 separate patent families). Since 1995 the University has agreed 112 separate licence agreements, 63 of these are still live. The University's most successful license arrangements are those where a patent portfolio comprising several patent families are licensed together. The University's most successful licence to a non-protected invention (a cell line) has consistently provided an annual royalty stream from the licensee back to the laboratory; £409k over the last 9 years.

Four new companies were formed by the University:

Beyond Medics – remote sensing of key clinical signs

Ripptide – development of novel cyclic peptides

Pneumagen – development of antiviral and antibacterial therapies

St Andrews Lean Consulting – provision of efficiency & process improvement advice

In addition several commercial service opportunities are being further developed within Schools & Units and several projects received external funding to support technology development into commercial applications:

Service development

Quantaserve Nano – particle analysis

SynthAndrews – chemical supplies

SUMAC – mentoring support

Technology development

Paraformance – software for many & multi core processors

Orbital Dx – antimicrobial resistance detection

Several University companies enjoyed a prizewinning year:

Ripptide won the Innovation Award at the 2015 Scottish Life Science Awards (held in 2016)

Xelect won the 2016 Fife Business Award for “Most Enterprising Company”

MOFgen won the 2016 Royal Society of Chemistry Emerging Technologies competition

Beyond Medics came 1<sup>st</sup> in the 2016 Converge Challenge Kickstart competition

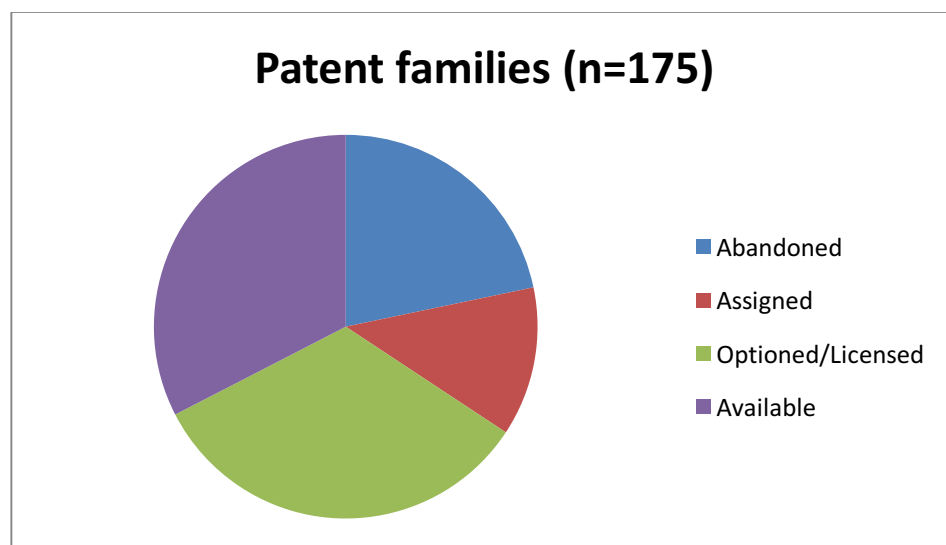
Following Ambicare Health's successful 2015 crowdfunding of £530k, in 2016 Xelect Ltd raised expansion funding from the St Andrews-based EOS angel network and Genuswave from its private backers. Ripptide, MOFgen & Pneumagen also pitched for investment in 2016 and two of these companies are on track to receive investment funding in AY 2016-17. Sadly NESTech was dissolved in July 2015 and CircaConnect ceased trading in early 2016 and the company will be dissolved in October 2016.

## 2. Invention disclosures, patent activity and IPR deals

Since 1996 the KTC has:

- reviewed 347 invention disclosures
- filed 175 priority UK patent applications (patent families)

At the end of July 2016 the University had 115 live patent families under management by the KTC (105 for St Andrews and 10 jointly with other organisations) and 12 University Trademarks granted and used by the University and its subsidiaries.



Total number of patent families 175

Abandoned 38

Assigned 22

Optioned/Licensed 58

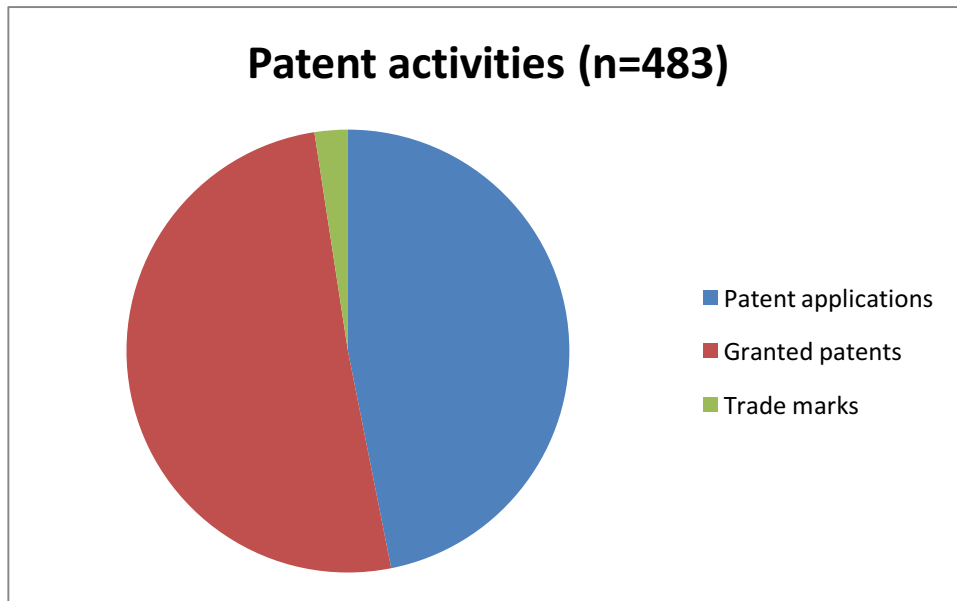
Available for business 57

The KTC currently manages the prosecution and maintenance of the University's 115 patent families.

Discounting abandoned patent families, 80 families (58%) are either optioned, licensed or have been assigned to commercial partners.

### 3. IPR activities under management

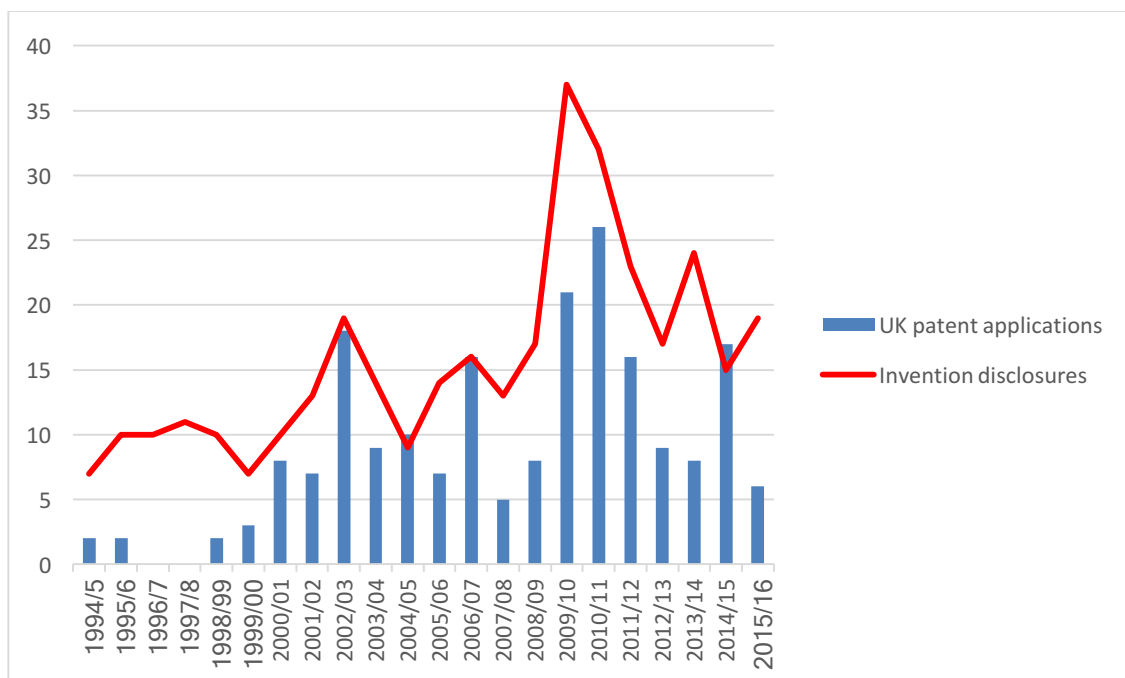
The KTC currently manages the prosecution and maintenance of 483 individual patent activities (in 115 live patent families) and 12 Trademarks across a range of territories:



In total 231 (52%) of our individual patent activities are either optioned or licensed to commercial partners.

Over the last 10 years (August 2006-July 2016) the University received >£5.8m in revenues from licensees.

#### Invention disclosures & UK patents filed 1994 – 2016

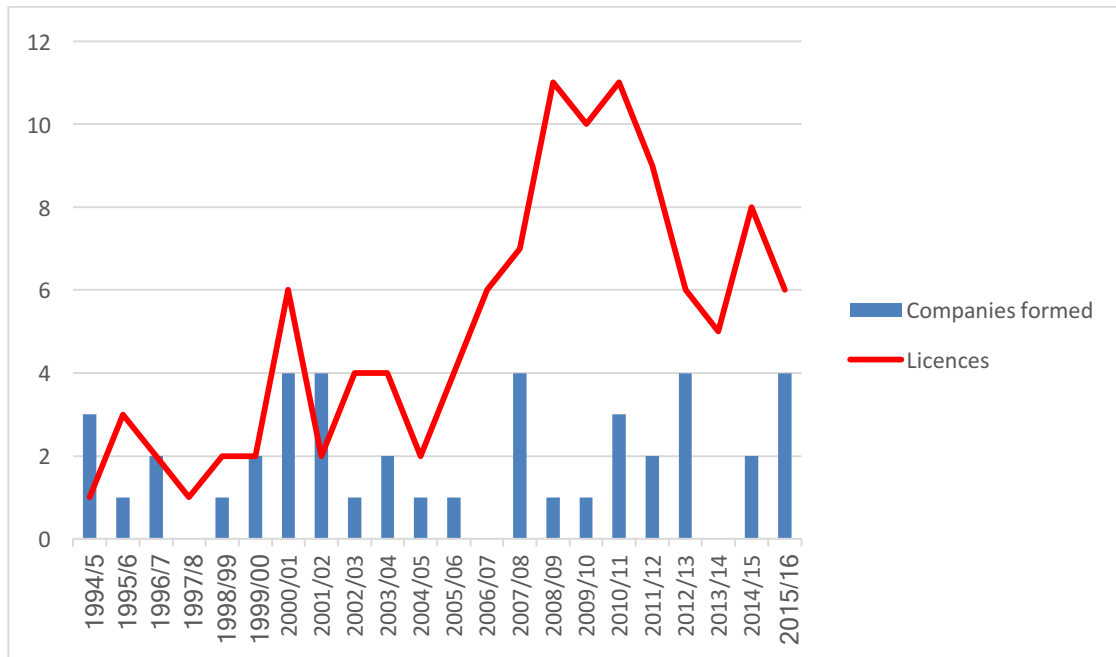


1994-2016 Total Invention disclosures 347

1994-2016 Total UK patent filings 175

The University files a UK patent application for ~50% of invention disclosures.

### Technology licences and new companies formed 1994-2016



1994-2016 Total licences completed 112

1994-2016 Total companies formed 43

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