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# IP outlook: Technology Landscape Ageing and Biotechnology

Biotechnet Meet-Up 2025, 28.01.2025



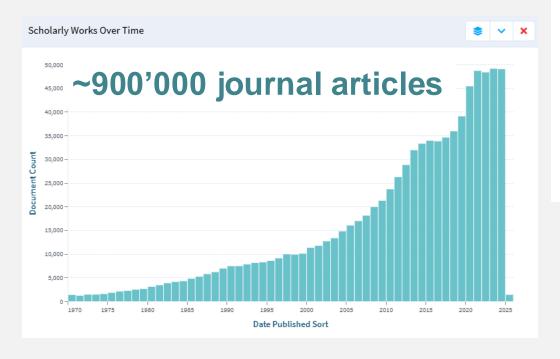
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Patent expert, Swiss Federal Institute of Intellectual Property (IPI)



### Ageing in the scientific literature

ageing OR elderly OR elderlies OR senescen\* OR immunosenescen\* OR geriatr\* OR gerontol\*





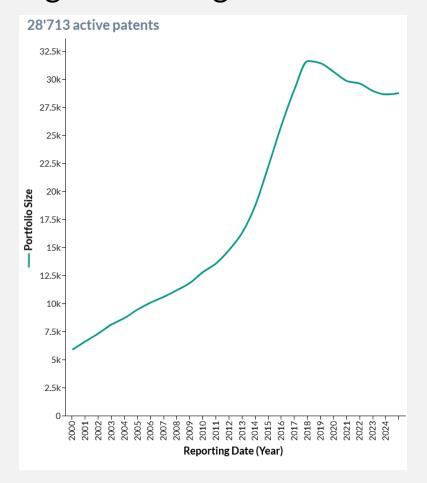
### Literature search in **Lens.org**

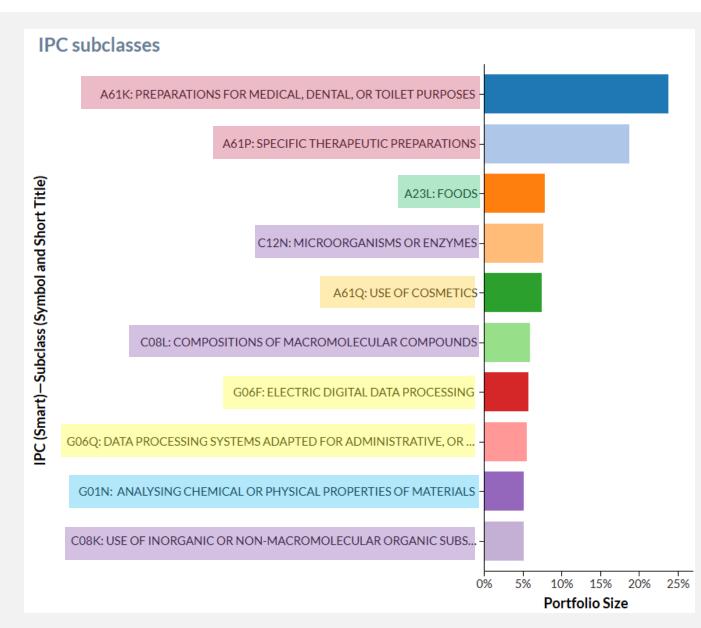
keywords restricted to title/abstract/keyword/field of study, journal articles only



### Ageing in patents

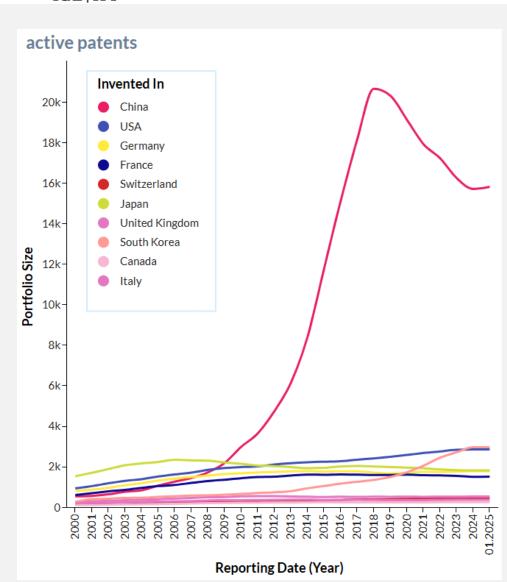
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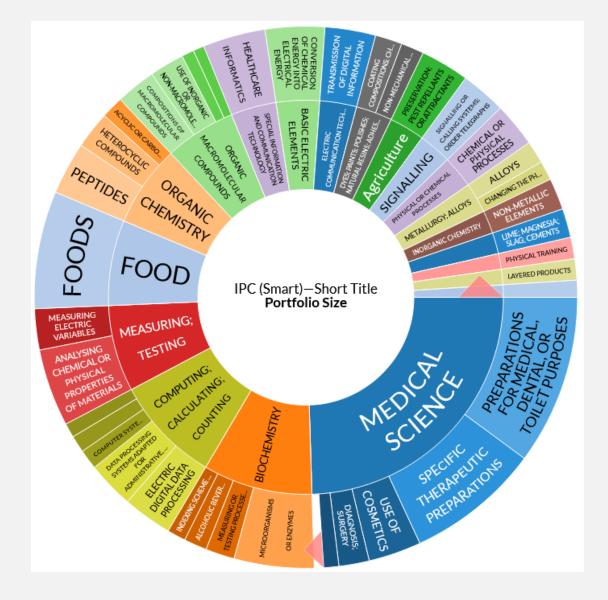




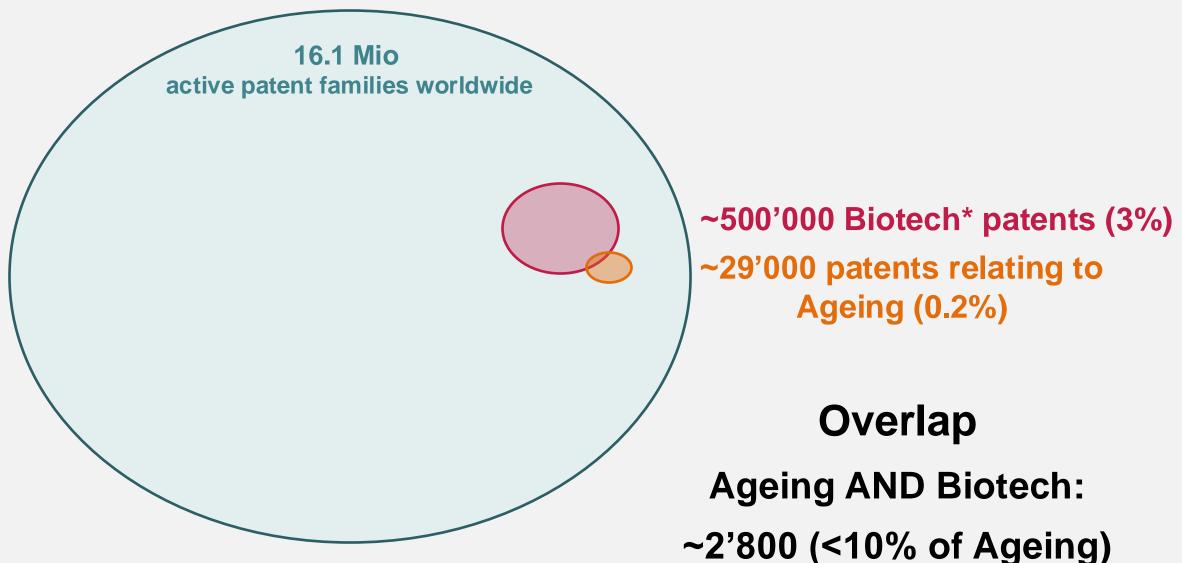


### **Ageing in patents**

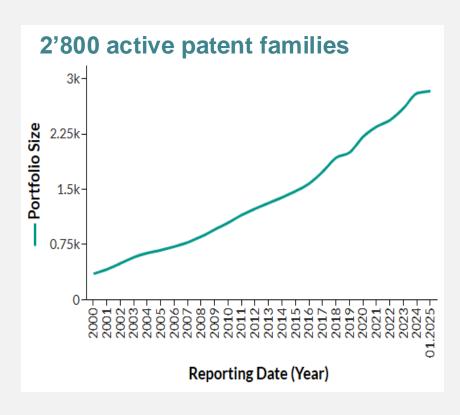


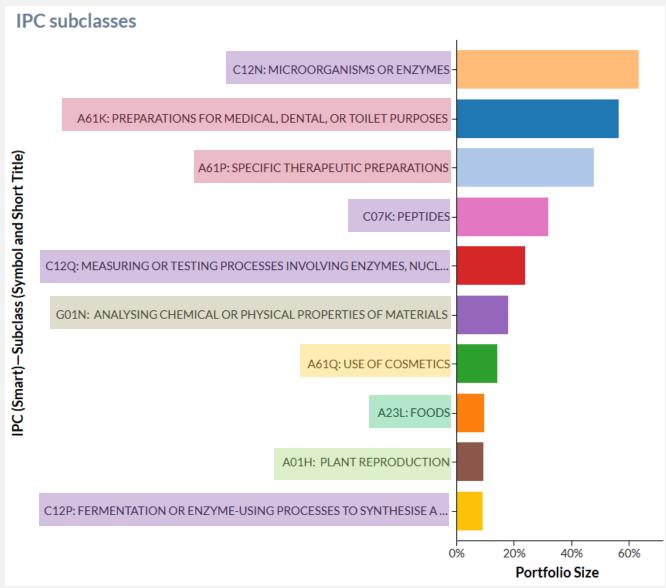




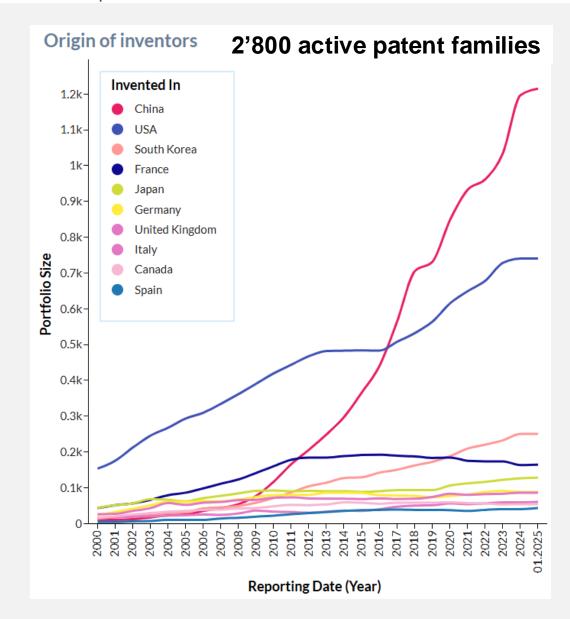


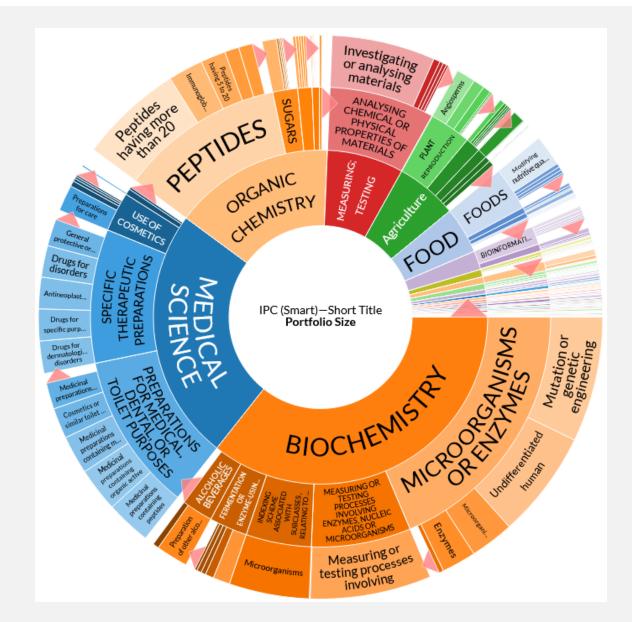














**EP3843756**A2

METHODS OF TREATING AGING-RELATED DISORDERS

**WO2023249078A1** SENESCENCE INHIBITOR

WO2014027864A1 LACTIC ACID BACTERIA CAPABLE OF PREVENTING AND/OR TREATING SENESCENCE AND DEMENTIA

<u>EP4301843A1</u> NOVEL DEPOLYMERIZED EXOPOLYSACCHARIDES, DERIVED FROM MICROALGAE,

...AND USES THEREOF IN COSMETICS FOR DELAYING THE EFFECTS OF SKIN AGEING

**WO2023147605A2** SENESCENT CELL SURFACE MARKERS

CN119265127A A METHOD FOR PREPARING A BIONIC BRAIN ORGAN FOR SIMULATING THE BRAIN OF AN ELDERLY PERSON



#### **EP3500798A1** ESTABLISHING A DEGREE OF BROWNING OF FOOD TO BE COOKED

The invention relates to a method for establishing a degree of browning of food to be cooked (G1-G3) in a cooking chamber (2) of a **household cooking device** (1), which household cooking device (1) has a **camera** (7) directed into the cooking chamber (2) and a **light source** (8) for illuminating the cooking chamber (2) 12. Method according to one of the preceding claims, wherein a reduction in the brightness of the light source (8) due to ageing is compensated.

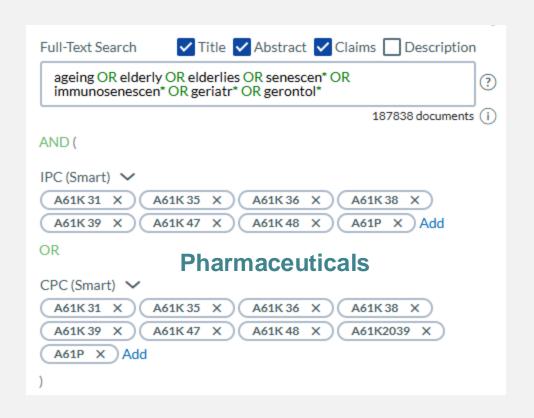
### **EP1751278A2** NICOTIANA NUCLEIC ACID MOLECULES AND USES THEREOF

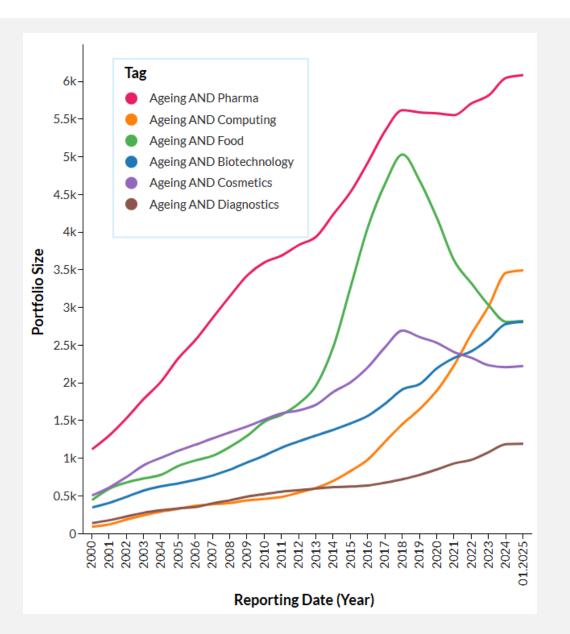
The present invention features Nicotiana nucleic acid sequences such as sequences encoding constitutive, or ethylene or senescence induced polypeptides, in particular cytochrome p450 enzymes, in Nicotiana plants and methods for using these nucleic acid sequences and plants to alter desirable traits, for example by using breeding protocols.



### **Alternative approach**

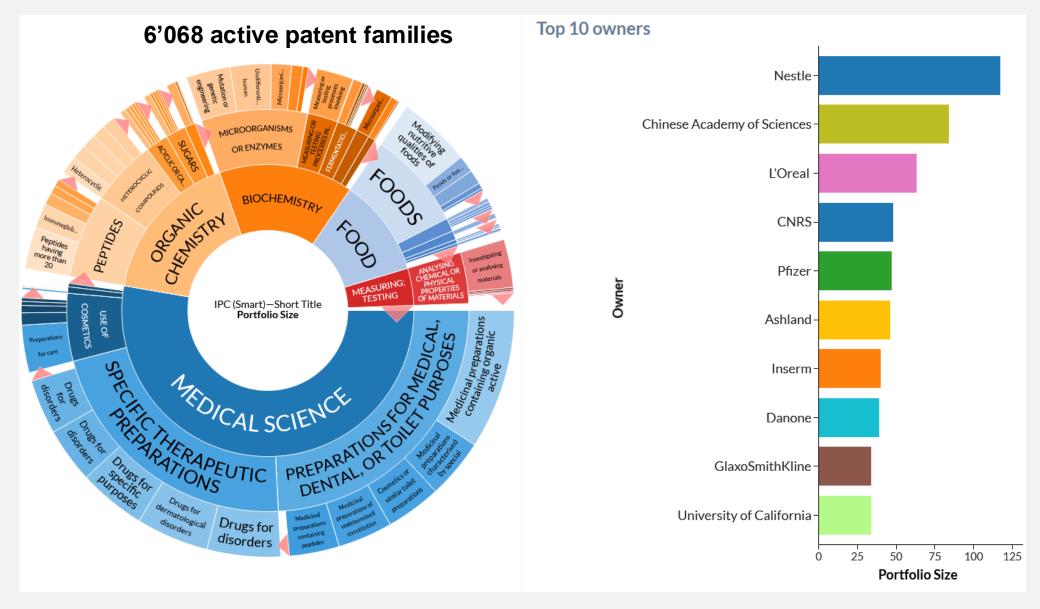
# Filter «ageing» by patent classifications defining the main specific fields of application





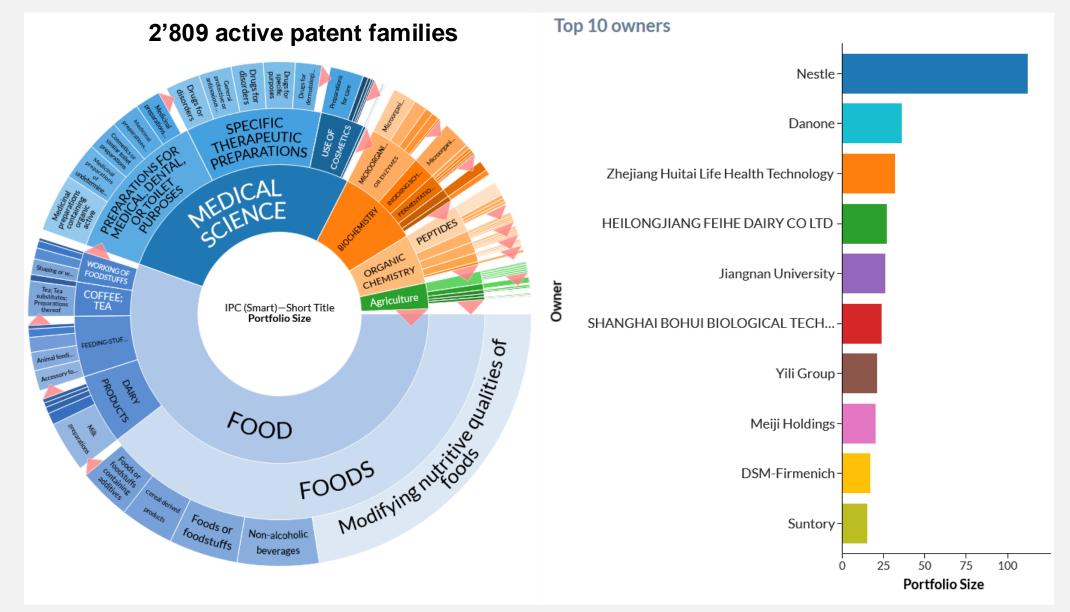


### **Ageing and Pharma**



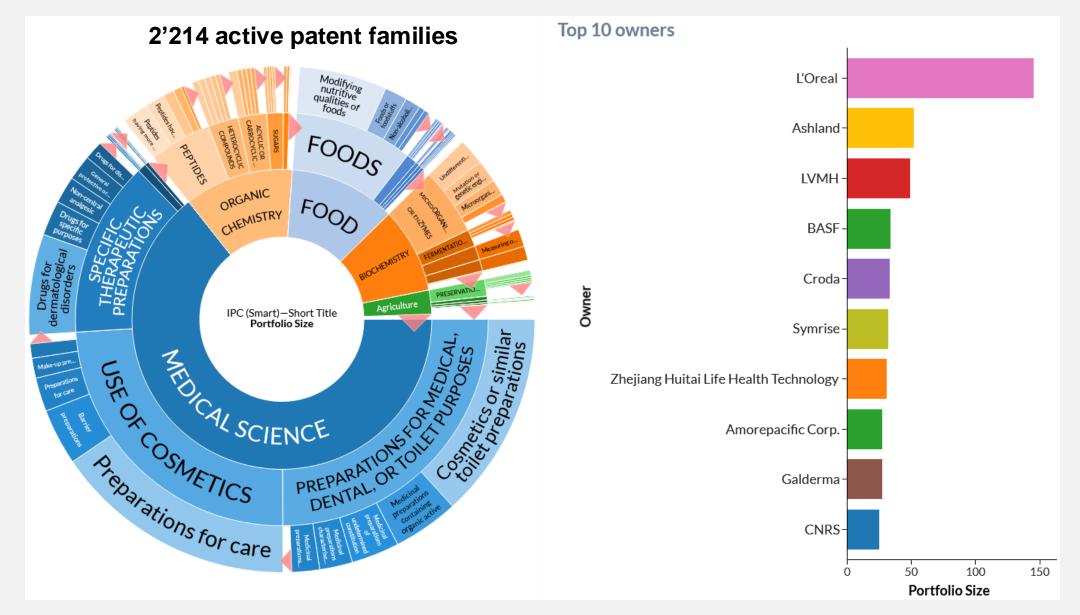


### **Ageing and Food**

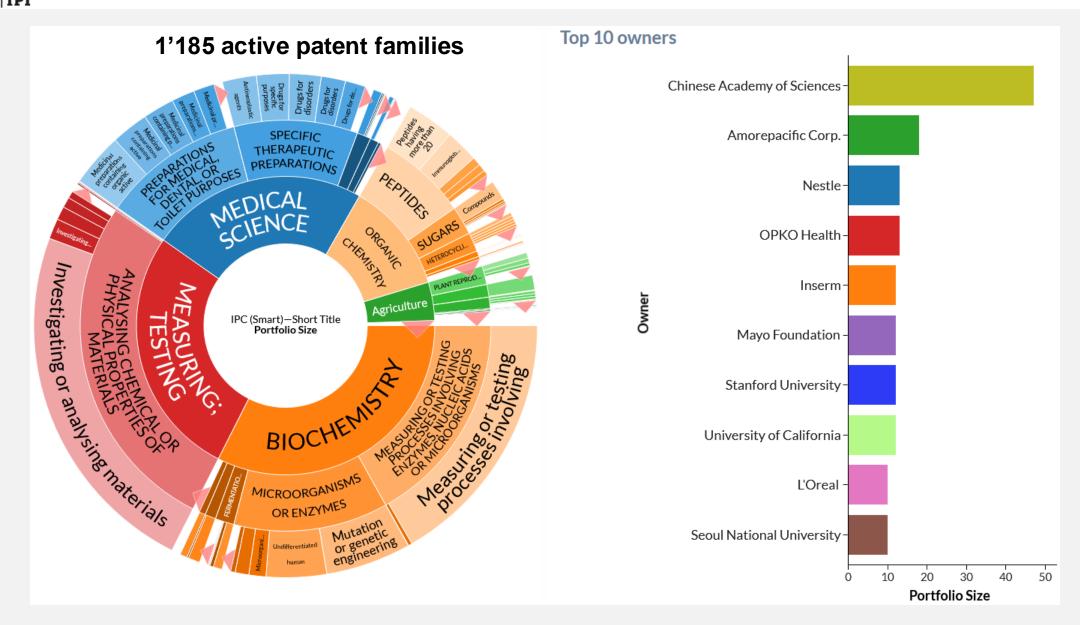




### **Ageing and Cosmetics**

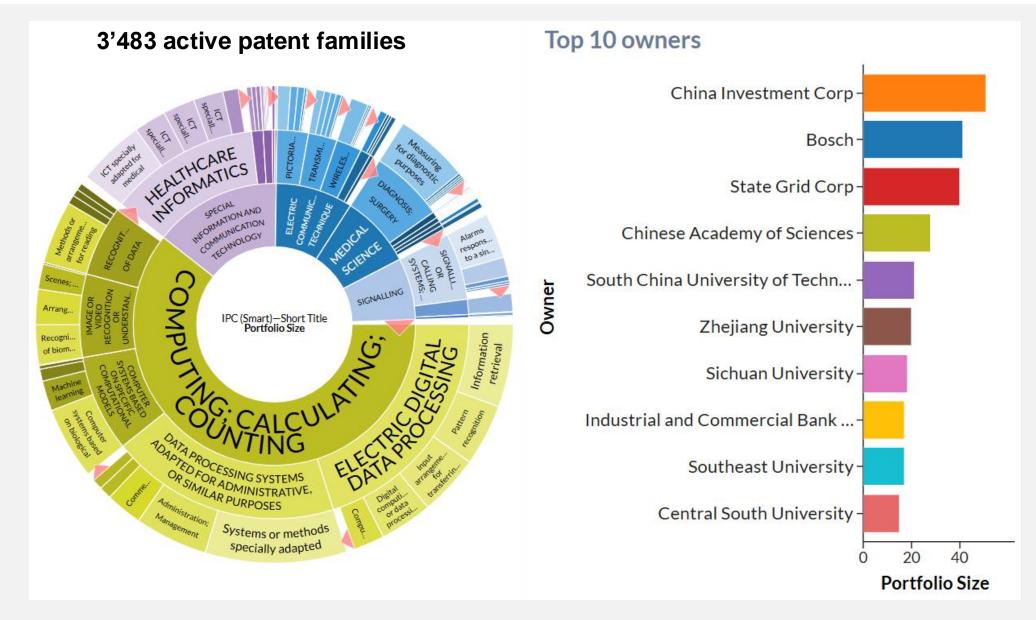








# Computing



- The keywords retrieve around 0.2% of all patents
- Still, these patents are highly diverse: ageing is not limited to biology
- Overlapping «ageing» with the established biotechnology filter yields the tip of the iceberg
- «Ageing» combined with more specific classifications yields conciser collections: Pharma, Food, Cosmetics, Diagnostics, Computing



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# Thank you

