



SUMMER SCHOOL NETVAL

11-14 settembre 2017, Lecce

EXPLOITING INNOVATION IN HEALTHCARE



Patent trends in clinical
innovation:

Comparing
NETVAL associates' and
Big Pharma companies

Clinical innovation

*Current developments in clinical innovation /
from gene edition to 3D bioprinters /
interdisciplinary*



What are the main trends in clinical innovation?

Emerging trends?

Main players?

Trends inside Netval associates?

Netval portfolio vs Big Pharma in the same area

Netval vs the biggest actor, Roche

*Insights in terms of technology/innovation, portfolio
pruning or licensing out*



A61

Main subclasses definition (Espacenet)

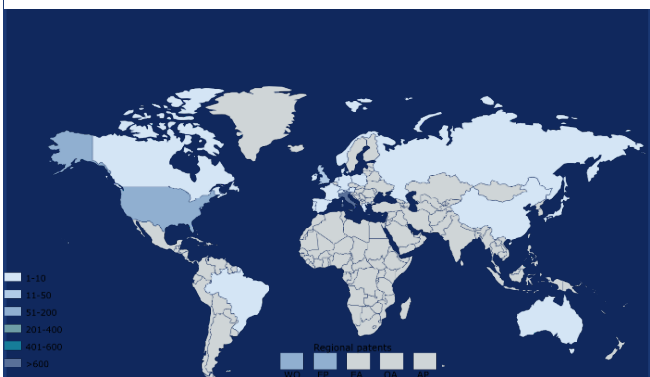
| | |
|--------------------------------------|--|
| <input type="checkbox"/> A61 | MEDICAL OR VETERINARY SCIENCE; HYGIENE |
| <input type="checkbox"/> A61B | DIAGNOSIS; SURGERY; IDENTIFICATION (analysing biological material G01N , e.g. G01N 33/48 ; obtaining records using waves other than optical waves, in general G03B 42/00) |
| <input type="checkbox"/> A61C | DENTISTRY; APPARATUS OR METHODS FOR ORAL OR DENTAL HYGIENE (non-driven toothbrushes A46B ; {tongue scrapers A61B 17/24 ;} preparations for dentistry A61K 6/00 ; preparations for cleaning the teeth or mouth A61K 8/00 , A61Q 11/00) |
| <input type="checkbox"/> A61D | VETERINARY INSTRUMENTS, IMPLEMENTS, TOOLS, OR METHODS |
| <input type="checkbox"/> A61F | FILTERS IMPLANTABLE INTO BLOOD VESSELS; PROSTHESES; DEVICES PROVIDING PATENCY TO, OR PREVENTING COLLAPSING OF, TUBULAR STRUCTURES OF THE BODY, E.G. STENTS; ORTHOPAEDIC, NURSING OR CONTRACEPTIVE DEVICES; FOMENTATION; TREATMENT OR PROTECTION OF EYES OR EARS; BANDAGES, DRESSINGS OR ABSORBENT PADS; FIRST-AID KITS (dental prosthetics A61C) |
| <input type="checkbox"/> A61G | TRANSPORT OR ACCOMODATION FOR PATIENTS; OPERATING TABLES OR CHAIRS; CHAIRS FOR DENTISTRY; FUNERAL DEVICES (embalming corpses A01N 1/00 ; {chairs or beds in general A47C ; walking aids A61H 3/00 }) |
| <input type="checkbox"/> A61H | PHYSICAL THERAPY APPARATUS, e.g. DEVICES FOR LOCATING OR STIMULATING REFLEX POINTS IN THE BODY; ARTIFICIAL RESPIRATION; MASSAGE; BATHING DEVICES FOR SPECIAL THERAPEUTIC OR HYGIENIC PURPOSES OR SPECIFIC PARTS OF THE BODY (electrotherapy, magnetotherapy, radiation therapy, ultrasound therapy A61N) |
| <input type="checkbox"/> A61J | CONTAINERS SPECIALLY ADAPTED FOR MEDICAL OR PHARMACEUTICAL PURPOSES; DEVICES OR METHODS SPECIALLY ADAPTED FOR BRINGING PHARMACEUTICAL PRODUCTS INTO PARTICULAR PHYSICAL OR ADMINISTERING FORMS; DEVICES FOR ADMINISTERING FOOD OR MEDICINES ORALLY; BABY COMFORTERS; DEVICES FOR RECEIVING SPITTLE |
| <input type="checkbox"/> A61K | PREPARATIONS FOR MEDICAL, DENTAL, OR TOILET PURPOSES (devices or methods specially adapted for bringing pharmaceutical products into particular physical or administering forms A61J 3/00 ; chemical aspects of, or use of materials for deodorisation of air, for disinfection or sterilisation, or for bandages, dressings, absorbent pads or surgical articles A61L ; {compounds <i>per se</i> C01 , C07 , C08 , C12N ;} soap compositions C11D ; {microorganisms <i>per se</i> C12N }) |
| <input type="checkbox"/> A61L | METHODS OR APPARATUS FOR STERILISING MATERIALS OR OBJECTS IN GENERAL; DISINFECTION, STERILISATION, OR DEODORISATION OF AIR; CHEMICAL ASPECTS OF BANDAGES, DRESSINGS, ABSORBENT PADS, OR SURGICAL ARTICLES; MATERIALS FOR BANDAGES, DRESSINGS, ABSORBENT PADS, OR SURGICAL ARTICLES (preservation of bodies or disinfecting characterised by the agent employed A01N ; preserving, e.g. sterilising, food or foodstuffs A23 ; preparations for medical, dental or toilet purposes A61K ; preparation of ozone C01B 13/10) |
| <input type="checkbox"/> A61M | DEVICES FOR INTRODUCING MEDIA INTO, OR ONTO, THE BODY (introducing media into or onto the bodies of animals A61D 7/00 ; means for inserting tampons A61F 13/26 ; devices for administering food or medicines orally A61J ; containers for collecting, storing or administering blood or medical fluids A61J 1/05); DEVICES FOR TRANSDUCING BODY MEDIA OR FOR TAKING MEDIA FROM THE BODY (surgery A61B ; chemical aspects of surgical articles A61L); DEVICES FOR PRODUCING OR ENDING SLEEP OR STUPOR |
| <input type="checkbox"/> A61N | ELECTROTHERAPY; MAGNETOTHERAPY; RADIATION THERAPY; ULTRASOUND THERAPY (measurement of bioelectric currents A61B ; surgical instruments, devices or methods for transferring non-mechanical forms of energy to or from the body A61B 18/00 ; anaesthetic apparatus in general A61M ; incandescent lamps H01K ; infra-red radiators for heating H05B) |
| <input type="checkbox"/> A61Q | SPECIFIC USE OF COSMETICS OR SIMILAR TOILET PREPARATIONS |

Netval's A61 portfolio



Netval portfolio

*Looking at Netval
associates in A61
main class*

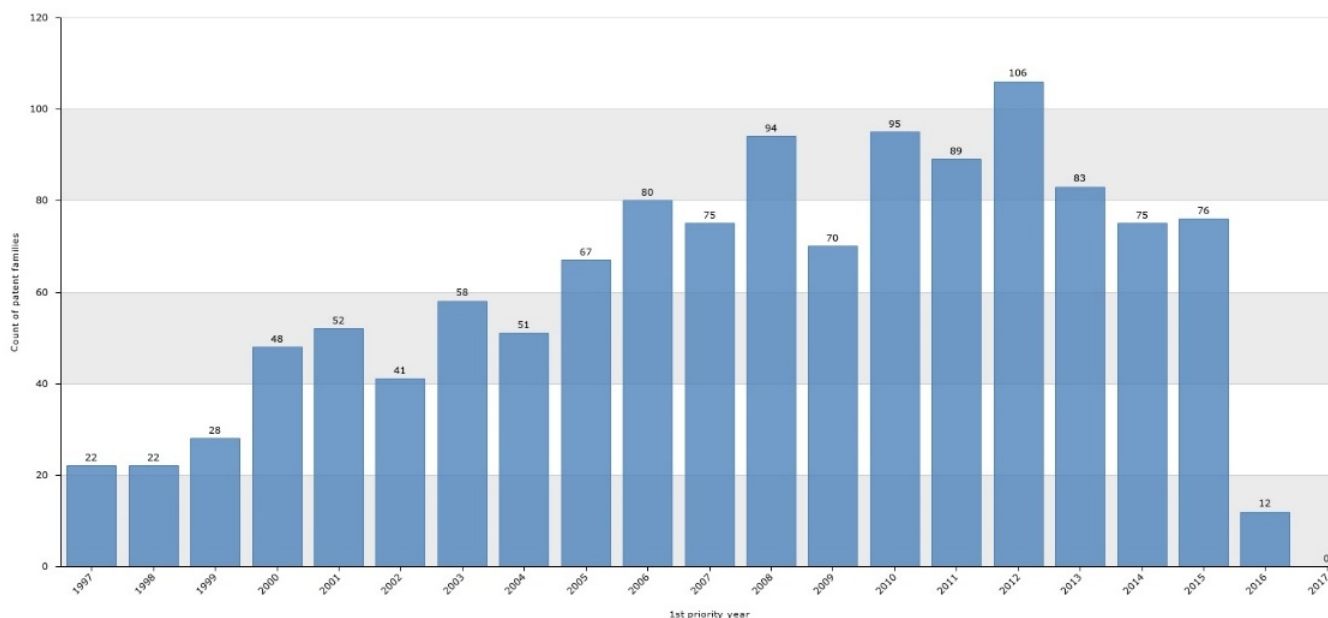


5

The following query will retrieve **1519 patent families**:

((((UNIVERSIT+ S (AQUILA OR INSUBRIA OR BARI OR BERGAMO OR BOLOGNA OR BRESCIA OR CAGLIARI OR CALABRIA OR CAMERINO OR CATANIA OR FERRARA OR FIRENZE OR FOGGIA OR GENOVA OR MESSINA OR MILANO OR PADOVA OR PALERMO OR PARMA OR PAVIA OR PERUGIA OR PISA OR SANNIO OR SALENTO OR SALERNO OR SASSARI OR TORINO OR TRENTO OR TRIESTE OR UDINE OR VERONA OR BOCCONI OR MODENA OR (NAPOLI FEDERICO) OR (CAMPANIA LUIGI VANVITELLI) OR (FOSCARI S VENEZIA) OR CATTOLICA OR (REGGIO CALABRIA) OR CASSINO OR (LAZIO MERIDIONALE) OR (PIEMONTE ORIENTALE) OR (CAMPUS S ROMA) OR (ROMA S VERGATA) OR URBINO OR SIENA OR PERUGIA OR BOLZANO OR (CARLO CATTANEO) OR (ANNUNZIO S CHIETI S PESCARA))) OR (POLITEC+ S (BARI OR MARCHE OR MILANO OR TORINO)) OR (SCUOLA S (PISA OR (SANT ANNA) OR TRIESTE)) OR (AREA SCIENCE PARK) OR (CENTRO ITALIANO RICERCHE AEROSPAZIALI) OR (CONSIGLIO S RICERCA S AGRI+) OR (CRA S RICERCA) OR (CONSIGLIO S NAZ+ S RICERCHE) OR (CENT+ S RIFERIMENTO S ONCOLOGICO) OR (ENEA AND (NUOVE S TECNOLOGIE S ENERGIA)) OR (I?STITUT# ORTOPEDIC# RIZZOLI) OR (FONDAZIONE S GRANDA) OR ((ITALI+ 1D I?STITUT+) S TEC?NOLOG+) OR ((I?STITUT# 1D NA+) S (FISICA 2D NUCLEA+)) OR INFN OR ((I?STITUT? 1D NA?IONAL?) 3D TUMOR?))/**PA/OPA/PAH/OWR/REAS** **AND** **A61+/CPC/IPC** (no restriction on date)

Distribution of search results by 1st priority year

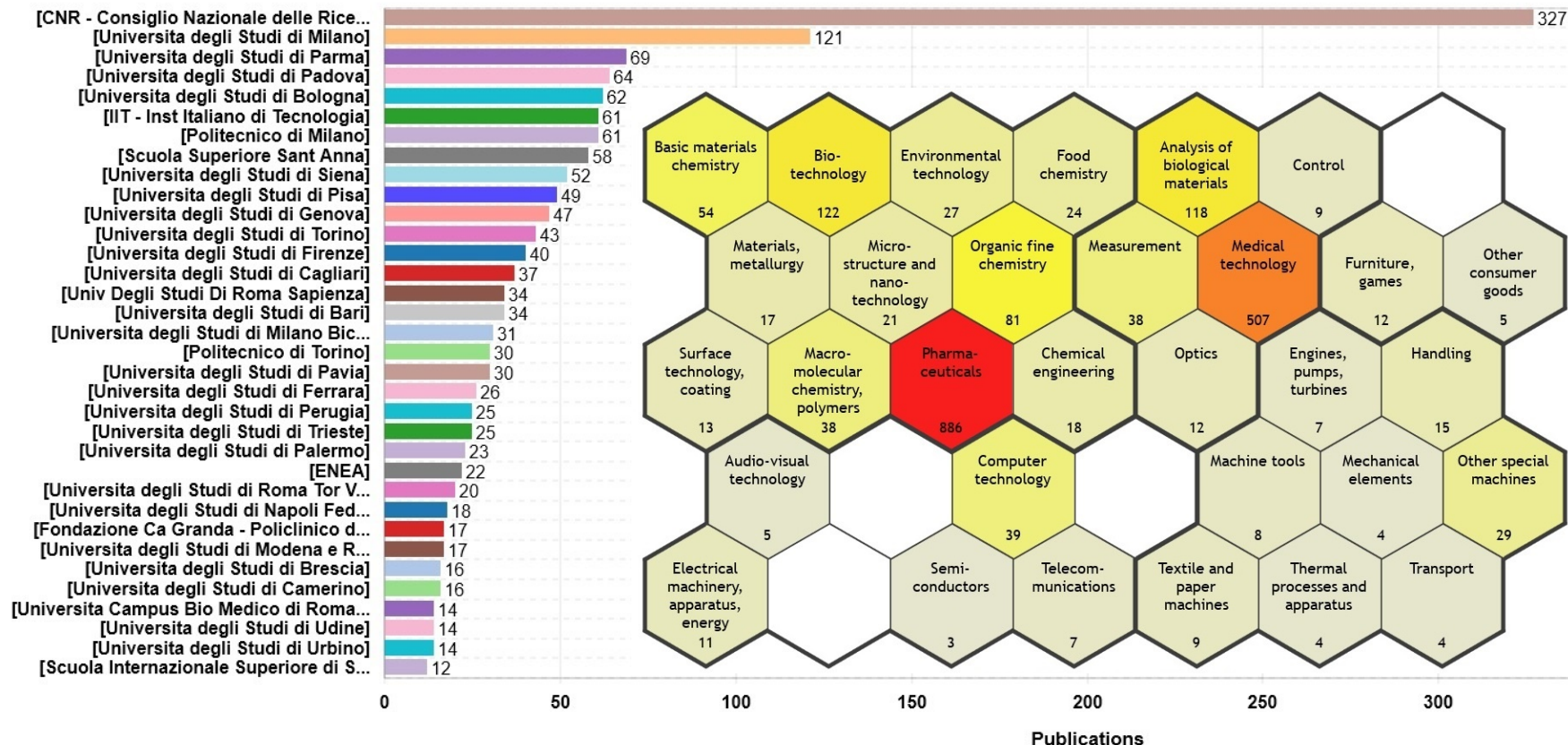


Netval associates

(always considering
the "A61 portfolio")

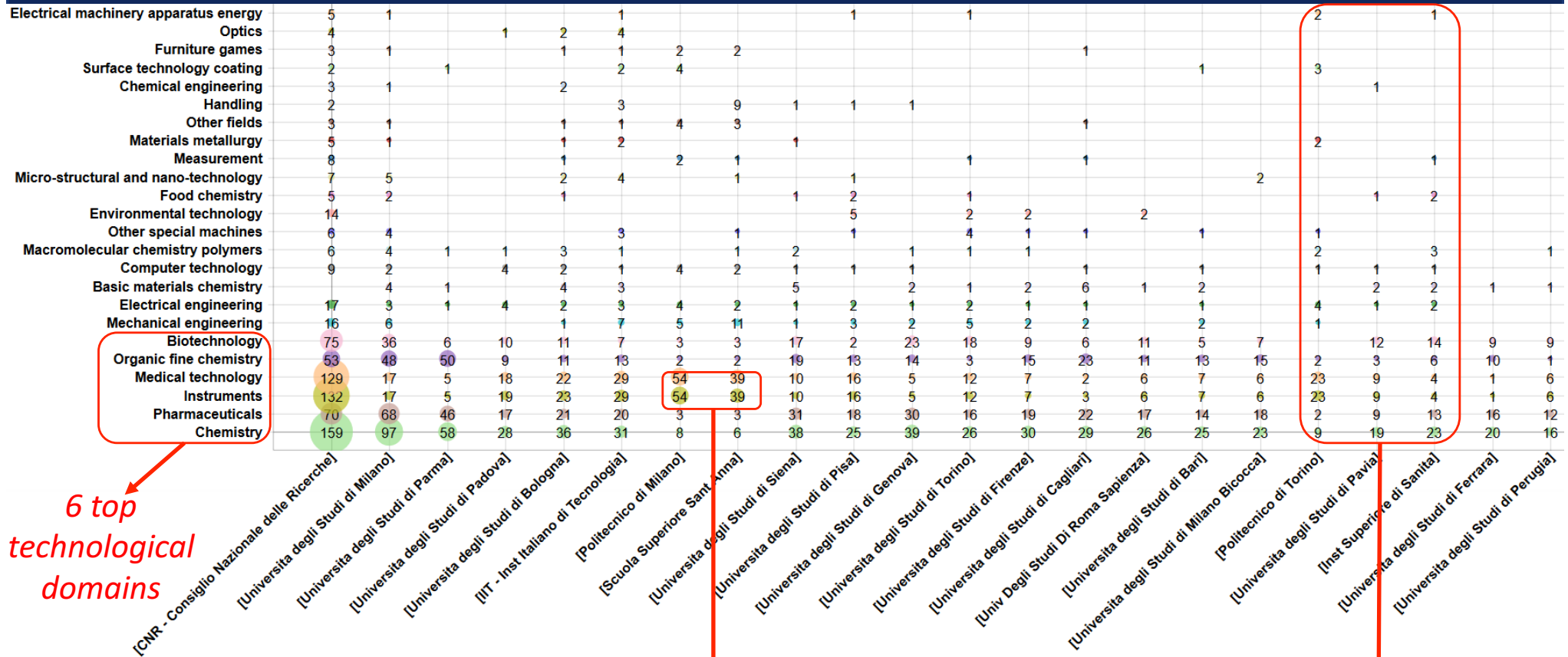
Assignees & technological overview

Still an interdisciplinary environment



Technological domains scattering

Looking closely...



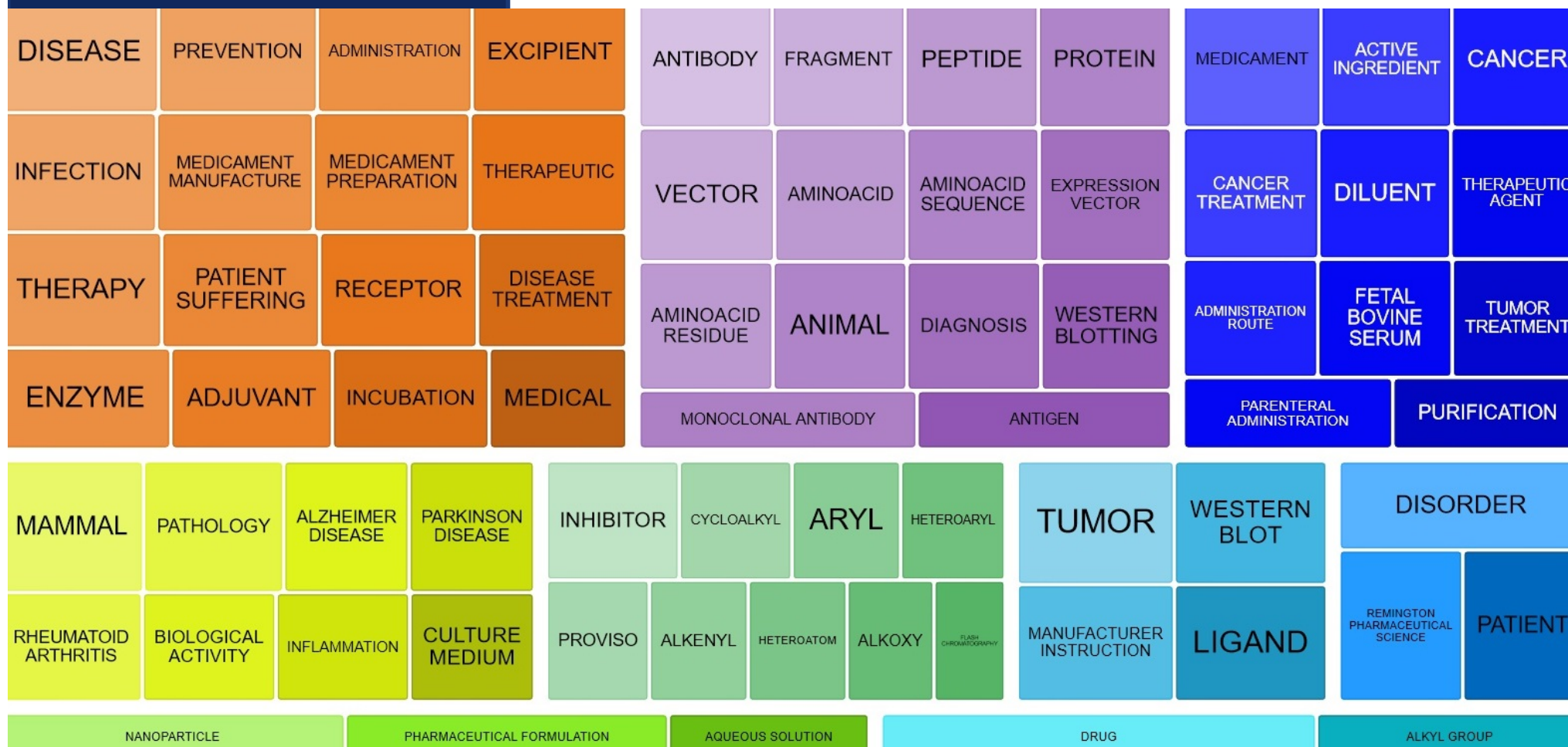
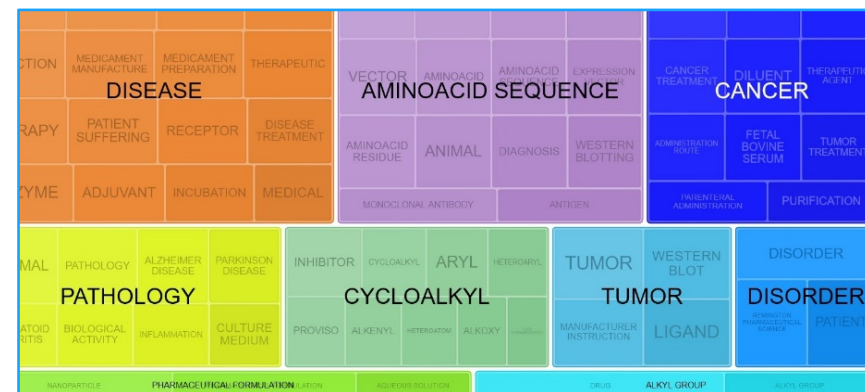
6 top
technological
domains

Technological
specialization
or major trend
for those 2 actors

Still a high
technology
scattering
on smaller
datasets

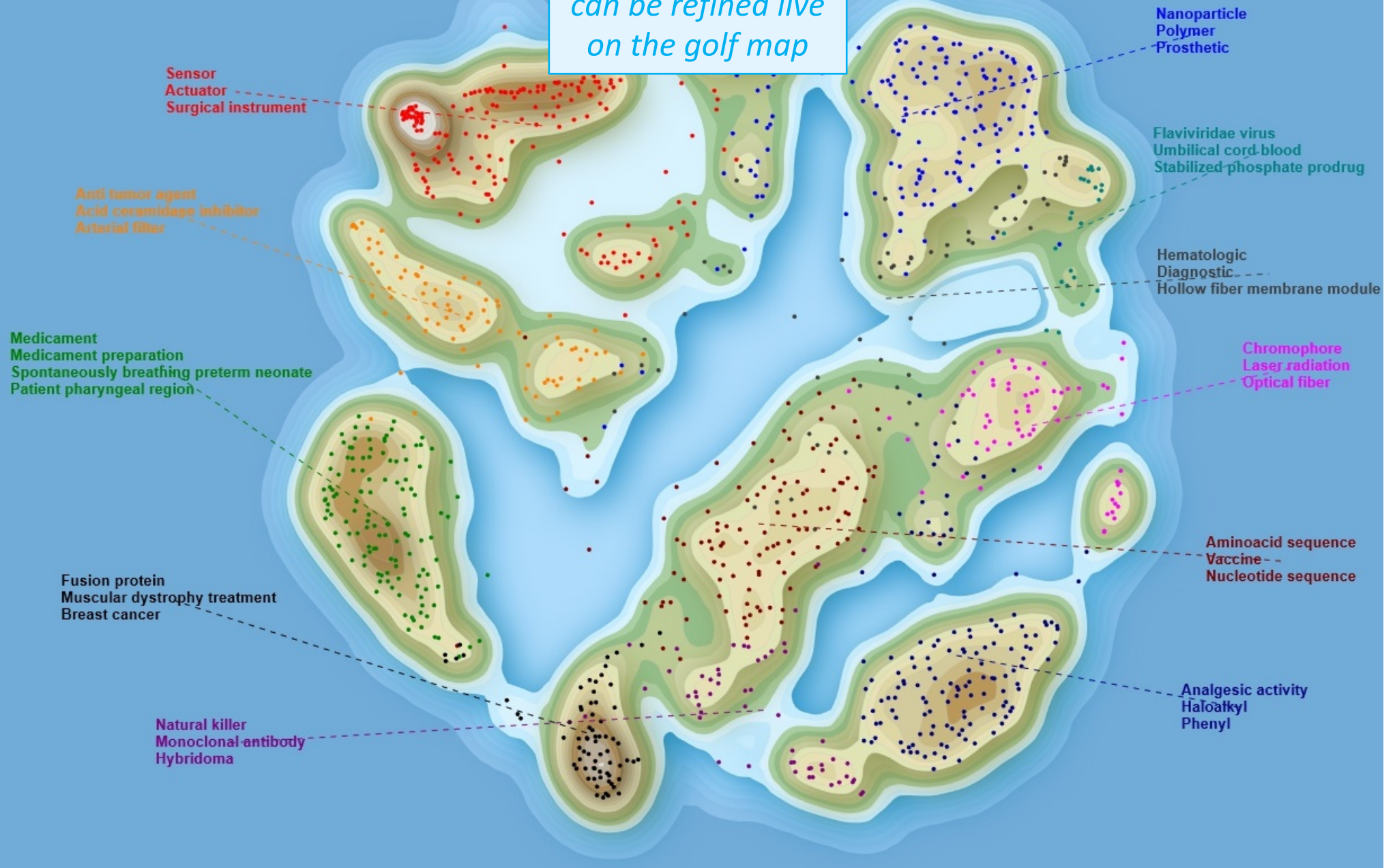
Top concepts in the A61 class among Netval's associates

Proteins and cancer related concepts are preponderant



Orbit Intelligence - Concepts golf map on Netval's portfolio

*Occurring concepts
can be refined live
on the golf map*



Netval's portfolio – Players analysis

| | | | | | | | | | | | | | | | | | | | | | | |
|--|--|-----------|---------|------------|---------|------|---------|------------------------|---------|---------|--------------------|----------|-------------------|------------|----------------|------|-----------|-----------|-----------|--------|------------------------|--|
| | CNR | 33 | 32 | 16 | 16 | 18 | 19 | 15 | 14 | 12 | 17 | 9 | 15 | 11 | 10 | 12 | 6 | 12 | 15 | 4 | 9 | |
| | UNIVERSITA DEGLI STUDI DI MILANO | 26 | 17 | 22 | 8 | 13 | 18 | 22 | 12 | 10 | 7 | 5 | 19 | 16 | 10 | 15 | 10 | 8 | 15 | 10 | 9 | |
| | UNIVERSITA DEGLI STUDI DI PARMA | 10 | 4 | 6 | 7 | 8 | 4 | 1 | 5 | 2 | 2 | | | 4 | 6 | 10 | 3 | 1 | 12 | 3 | 6 | |
| | SCUOLA SUPERIORE SANT ANNA | 5 | 1 | 1 | 5 | 1 | 1 | | 3 | | 3 | 4 | | 1 | | 1 | 2 | | | 1 | | |
| | UNIVERSITA DEGLI STUDI DI BOLOGNA | 8 | 3 | 10 | 7 | 4 | 4 | 2 | 2 | 1 | 4 | 4 | | 6 | 6 | 2 | 3 | 3 | 3 | 2 | 3 | |
| | UNIVERSITA DEGLI STUDI DI PADOVA | 9 | 5 | | 8 | 5 | 6 | 1 | 6 | 4 | | 3 | 4 | 3 | 8 | 1 | 4 | 3 | 3 | 10 | 4 | |
| | ISTITUTO ITALIANO DI TECNOLOGIA | 10 | 8 | 11 | 8 | 7 | 2 | 1 | 5 | 5 | 1 | 2 | 2 | 6 | 2 | 12 | 1 | 1 | 11 | 4 | 1 | |
| | POLITECNICO DI MILANO | | 1 | 4 | 1 | 2 | | 1 | 2 | | | | 2 | 1 | 2 | 1 | | | | | | |
| | UNIVERSITA DEGLI STUDI DI SIENA | 17 | 4 | 8 | 10 | 5 | 8 | 8 | 5 | 14 | 9 | 3 | 1 | 4 | | 3 | 7 | 5 | 3 | 3 | 2 | |
| | UNIVERSITA DEGLI STUDI DI PISA | 5 | 2 | 5 | 4 | 3 | | 3 | 1 | 2 | 1 | 1 | 3 | 2 | 2 | 3 | 1 | | 2 | 1 | | |
| | UNIVERSITA DEGLI STUDI DI GENOVA | 10 | 7 | 11 | 11 | 1 | 1 | 4 | 6 | 5 | 12 | 14 | 3 | 4 | 2 | 2 | 2 | 2 | 2 | 8 | 8 | |
| | UNIVERSITA DEGLI STUDI DI TORINO | 2 | 6 | 8 | 5 | 3 | 6 | 2 | 3 | 3 | 7 | 3 | 1 | 5 | 3 | 1 | 6 | 3 | 3 | 3 | 4 | |
| | UNIVERSITA DEGLI STUDI DI FIRENZE | 7 | 2 | 6 | 2 | 4 | 1 | 4 | 4 | 7 | 1 | 3 | 3 | 5 | | 3 | 4 | 2 | 4 | 2 | | |
| | UNIVERSITA DEGLI STUDI DI CAGLIARI | 10 | 4 | 3 | | 5 | 8 | 1 | 5 | 10 | | | 4 | 4 | 3 | 8 | 7 | 9 | 4 | | 8 | |
| | UNIVERSITA DEGLI STUDI DI BARI ALDO MORO | 8 | 5 | 10 | 4 | 5 | 1 | 7 | 6 | 2 | | | 4 | 7 | 2 | 4 | | 1 | 3 | 3 | 2 | |
| | POLITECNICO DI TORINO | | 1 | | 1 | 4 | 2 | | 1 | | | | | | 1 | | | 1 | 2 | | | |
| | ISTITUTO ORTOPEDICO RIZZOLI | | 2 | 4 | | | | 1 | | | 1 | 1 | 1 | 1 | | | | | | | | |
| | UNIVERSITA DEGLI STUDI DI FERRARA | 2 | 2 | 7 | 4 | 3 | | 7 | | 3 | | | 2 | 1 | 2 | | | | | | 1 | |
| | UNIVERSITA DEGLI STUDI DI PAVIA | 10 | 8 | 3 | 3 | 2 | 3 | 1 | 1 | 2 | 3 | 4 | | 5 | 2 | 2 | 2 | 5 | 1 | 1 | | |
| | UNIVERSITA DEGLI STUDI DI ROMA LA SAPIENZA | 11 | 4 | 2 | 4 | 3 | 4 | 2 | 1 | 4 | 2 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 2 | 2 | | |
| | | EXCIPIENT | PROTEIN | MEDICAMENT | DISEASE | DRUG | PEPTIDE | MEDICAMENT PREPARATION | THERAPY | DILUENT | AMINOACID SEQUENCE | ANTIBODY | ACTIVE INGREDIENT | PREVENTION | ADMINISTRATION | ARYL | AMINOACID | INJECTION | INHIBITOR | CANCER | MEDICAMENT MANUFACTURE | |
| | | Concepts | | | | | | | | | | | | | | | | | | | | |

Concepts

Drugs and drug formulation concepts are preponderant,
there is also a predilection for proteins

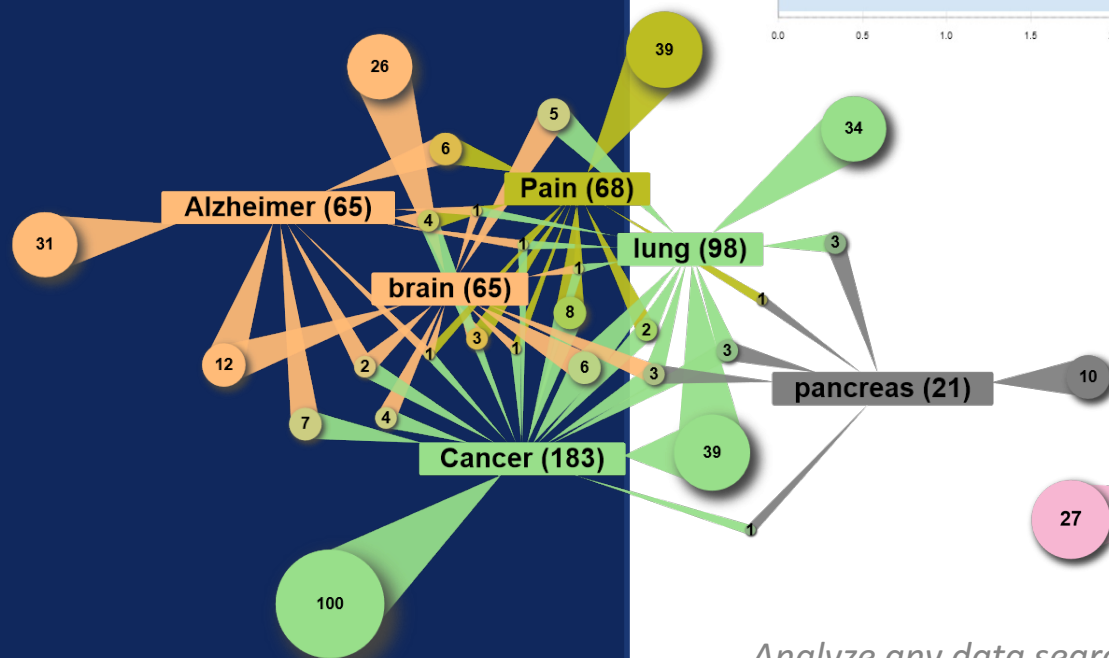
Netval's portfolio – Players analysis

collaborations included

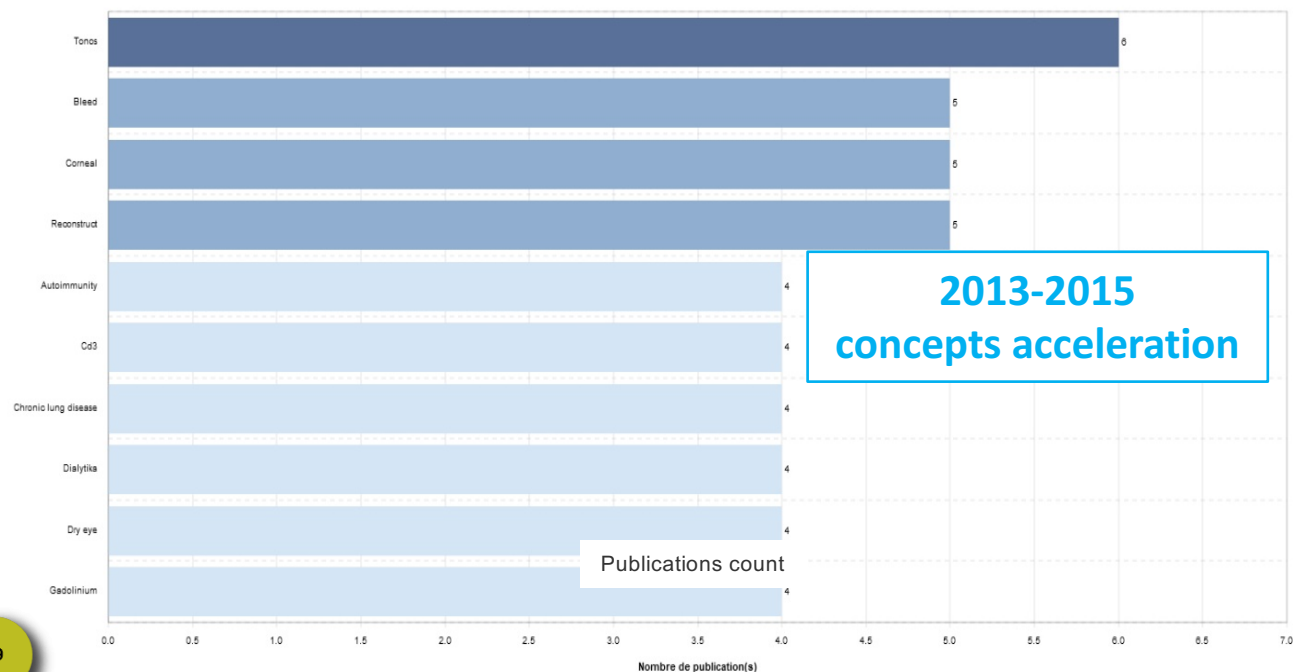
| | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| CNR | 5 | 5 | 8 | 9 | 9 | 1 | 5 | 6 | 15 | 10 | 1 | 7 | 11 | 12 | 9 | 15 | 6 | 13 | 5 | | |
| UNIVERSITA DEGLI STUDI DI MILANO | 1 | | 3 | 4 | 3 | 4 | 4 | 8 | 5 | 9 | 8 | 8 | 5 | 5 | 5 | 13 | 2 | 9 | 2 | | |
| UNIVERSITA DEGLI STUDI DI PARMA | | | | | 3 | 1 | 1 | 1 | 1 | 4 | 4 | 2 | | 1 | 4 | 3 | 2 | 2 | 1 | | |
| SCUOLA SUPERIORE SANT ANNA | | | 2 | 1 | 2 | | 3 | | 1 | 2 | 3 | 7 | 6 | 9 | 6 | 7 | 6 | 1 | 4 | | |
| UNIVERSITA DEGLI STUDI DI BOLOGNA | 2 | 1 | | | 2 | 2 | 8 | 2 | 5 | 1 | 6 | 5 | 2 | 1 | 3 | 4 | 8 | 6 | 2 | | |
| UNIVERSITA DEGLI STUDI DI PADOVA | 2 | | | 1 | 3 | 2 | 2 | 1 | 1 | 4 | 2 | 6 | 7 | 3 | 7 | 9 | 8 | 2 | 1 | | |
| ISTITUTO ITALIANO DI TECNOLOGIA | | | | | | | | | | | | 1 | 3 | 2 | 10 | 11 | 13 | 7 | 10 | 1 | |
| POLITECNICO DI MILANO | | | | 5 | 1 | 5 | | 3 | 1 | 4 | 1 | 6 | 4 | 8 | 4 | 3 | 2 | 1 | 7 | | |
| UNIVERSITA DEGLI STUDI DI SIENA | | 1 | 3 | 1 | 1 | 3 | 7 | 2 | 8 | 5 | 4 | 3 | 2 | 2 | | 1 | 2 | 1 | | 1 | |
| UNIVERSITA DEGLI STUDI DI PISA | | | | | | | 3 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | 6 | 4 | 2 | 3 | 5 | 6 | |
| UNIVERSITA DEGLI STUDI DI GENOVA | | | 4 | 1 | 1 | | 3 | 6 | 5 | 1 | 3 | 1 | 2 | 1 | 3 | 1 | 4 | 3 | 4 | 2 | |
| UNIVERSITA DEGLI STUDI DI TORINO | | | 1 | | 1 | 2 | | | 4 | 7 | 3 | 3 | 1 | 2 | 1 | 6 | 6 | | 1 | | |
| UNIVERSITA DEGLI STUDI DI FIRENZE | | 2 | 2 | 3 | 2 | 1 | 1 | 1 | 1 | 3 | 2 | 2 | 2 | 3 | 2 | | 4 | 2 | | 1 | |
| UNIVERSITA DEGLI STUDI DI CAGLIARI | 1 | | | 4 | 2 | 4 | 3 | 1 | | | | 1 | | 1 | 3 | 1 | 2 | 1 | | 1 | |
| UNIVERSITA DEGLI STUDI DI BARI ALDO MORO | 1 | 1 | | | | | | 1 | 4 | 4 | 2 | 4 | | 3 | 6 | | 3 | 1 | 3 | | |
| POLITECNICO DI TORINO | | | | | | 1 | | 2 | 1 | 1 | 4 | | 3 | 5 | 4 | 4 | | 1 | 2 | | |
| ISTITUTO ORTOPEDICO RIZZOLI | 1 | 2 | 2 | 2 | | 1 | 2 | | | | 5 | | 2 | 1 | | 1 | | 2 | | | |
| UNIVERSITA DEGLI STUDI DI FERRARA | | 1 | | 3 | 5 | 2 | | | 1 | 3 | 1 | 2 | 3 | 1 | 1 | 1 | | | 2 | | |
| UNIVERSITA DEGLI STUDI DI PAVIA | | | | 1 | 3 | 1 | 1 | 2 | 2 | 1 | | 1 | 1 | 2 | | | 2 | 4 | 2 | | |
| UNIVERSITA DEGLI STUDI DI ROMA LA SAPIENZA | | | | 1 | 1 | | | 2 | 3 | 3 | 1 | | | 4 | 1 | 3 | 1 | 1 | 1 | | |
| UNIVERSITY OF CALIFORNIA | | | 1 | | | 1 | | | | | 4 | | | 1 | 6 | 5 | 3 | 2 | | | |
| UNIVERSITA DEGLI STUDI DI PALERMO | | | | | | | | 2 | | 2 | 2 | 3 | 4 | 2 | 1 | 1 | 2 | | 3 | | |
| ENEA | | 2 | 2 | 1 | 3 | | 1 | 1 | | | | 1 | 1 | | 1 | | | | | | |
| IST SUPERIORE SANITA | | | | 1 | 1 | 1 | | | 1 | 2 | | 1 | 1 | | 3 | 1 | | 1 | 1 | | |
| UNIVERSITA DEGLI STUDI DI TRIESTE | | | | 1 | | 2 | 3 | 2 | 1 | 2 | 1 | 3 | 1 | 1 | | 2 | | 1 | 1 | | |
| INNATE PHARMA | | | 3 | 1 | 1 | | 4 | 6 | 1 | 1 | | | | | | 1 | | | 1 | | |
| ISTITUTO NAZIONALE DEI TUMORI | | | | | | 1 | | 1 | | 1 | 2 | 1 | 4 | 3 | 1 | 1 | 1 | 1 | 1 | | |
| UNIVERSITA DEGLI STUDI DI PERUGIA | | | | 1 | | 1 | 2 | | | | 1 | 2 | 2 | 2 | | 1 | 3 | | 2 | | |
| CNRS | | | | | | 3 | 3 | 2 | | 2 | | | | 1 | | | 2 | | 3 | | |
| UNIVERSITA DEGLI STUDI DI CAMERINO | 3 | | 1 | 1 | 1 | | | | | | | 1 | | | 4 | 2 | 1 | | 1 | | |

1st priority year

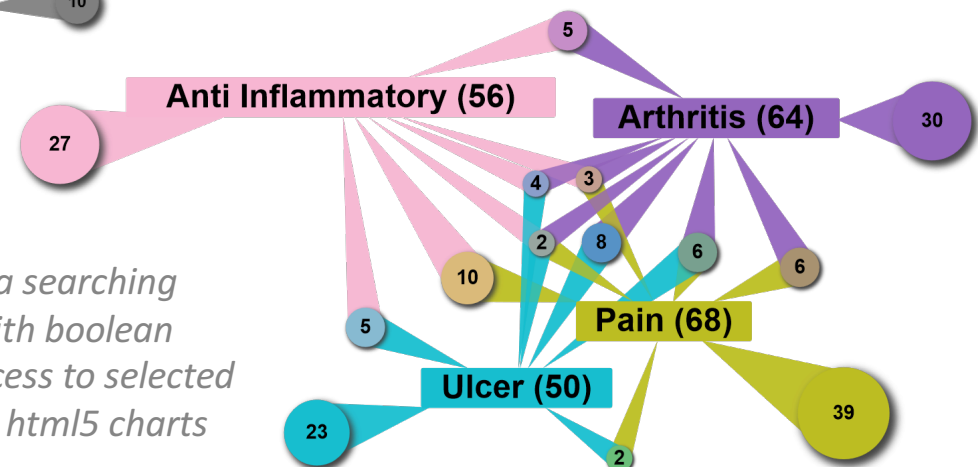
Trends in concepts in the A61 class among Netval's associates Orbit Intellixir



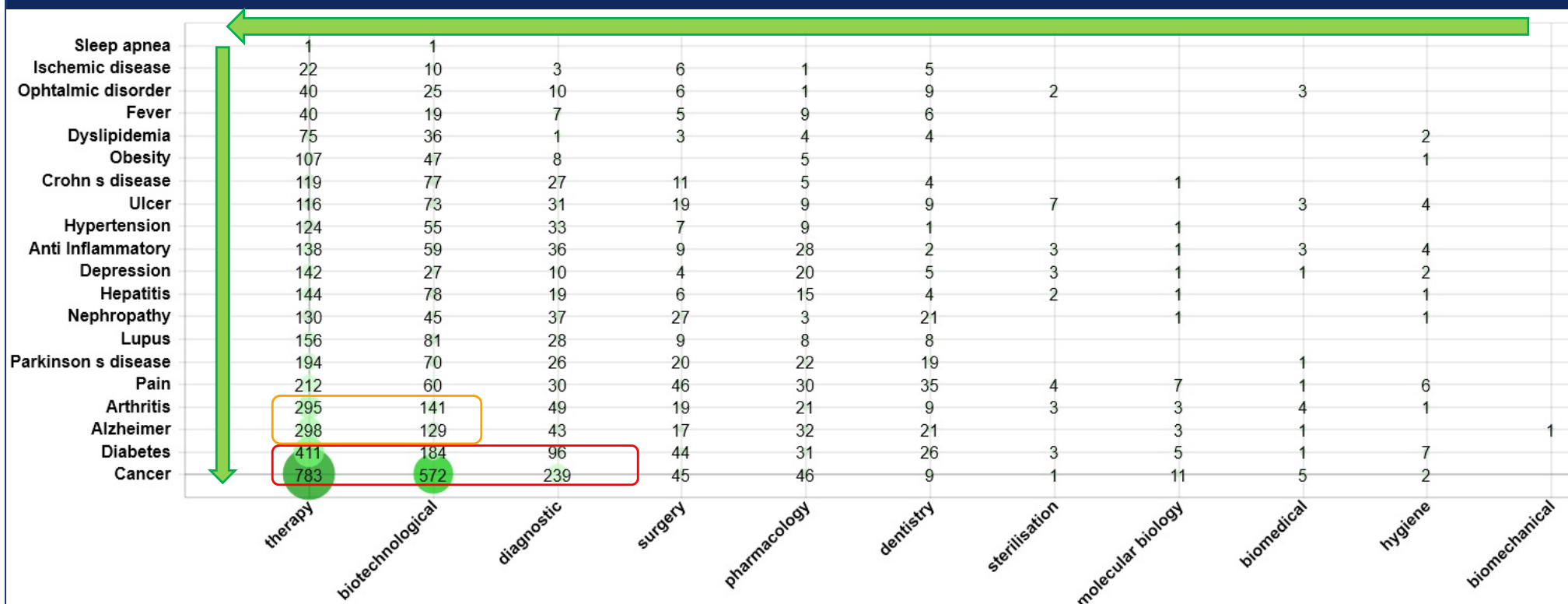
Analyze any data searching
specific fields with boolean
queries, you can access to selected
documents on the html5 charts



Orbit Intellixir
custom fields co-occurrences



Netval's A61 portfolio custom fields with Orbit Intellixir



Values retrieved by boolean queries
into titles, abstracts, claims,
concepts & descriptors

| Actions | Rank | Value | Contains |
|---------|------|----------------------|---|
| | 1 | ▼ biomedical | biomed* |
| | 2 | ▲▼ biomechanical | biomecha* |
| | 3 | ▲▼ biotechnological | biotech* OR enzym* OR *genetic* OR antibod* OR monoclon* OR (gene NEAR:2 edit*) |
| | 4 | ▲▼ bioprint | bioprint* |
| | 5 | ▲▼ pharmacology | *pharmacolog* |
| | 6 | ▲▼ therapy | drug* OR *therap* OR medicam* |
| | 7 | ▲▼ molecular biology | (molecular NEAR:1 biology) OR biomolec* |
| | 8 | ▲▼ diagnostic | diagnos* |
| | 9 | ▲▼ hygiene | hygien* OR sanitar* OR toilet* |
| | 10 | ▲▼ dentistry | tooth* OR teeth OR denti* OR gingiv* OR dental* |
| | 11 | ▲▼ veterinary | veterin* |
| | 12 | ▲▼ surgery | surgeon* OR surger* OR surgical |
| | 13 | ▲▼ sterilisation | sterili* OR disinfect* |

A61 Netval's portfolio

Tabular charts & metrics from Orbit Platinum

Top 15 publishing Netval's associates

Forward citations
IPC/CPC codes
dispersy



Distribution of search results by Assignees

| Players | Pending | Granted | Geographic cov. | Opposed | Non-self fwd cit. | Generality index | Radicalness index |
|---|---------|---------|-----------------|---------|-------------------|------------------|-------------------|
| CNR | 30 | 82 | 1.3 | 4 | 1656 | 0.81 | 0.95 |
| UNIVERSITA DEGLI STUDI DI MILANO | 20 | 39 | 1.5 | 1 | 266 | 0.8 | 0.95 |
| UNIVERSITA DEGLI STUDI DI PARMA | 10 | 16 | 1.9 | 0 | 134 | 0.77 | 0.95 |
| SCUOLA SUPERIORE SANT ANNA | 19 | 25 | 0.8 | 0 | 567 | 0.78 | 0.94 |
| UNIVERSITA DEGLI STUDI DI BOLOGNA | 17 | 19 | 1.3 | 0 | 113 | 0.8 | 0.95 |
| UNIVERSITA DEGLI STUDI DI PADOVA | 16 | 17 | 0.9 | 0 | 100 | 0.77 | 0.94 |
| ISTITUTO ITALIANO DI TECNOLOGIA | 36 | 17 | 1.2 | 0 | 42 | 0.78 | 0.95 |
| POLITECNICO DI MILANO | 12 | 32 | 1 | 0 | 144 | 0.76 | 0.94 |
| UNIVERSITA DEGLI STUDI DI SIENA | 6 | 14 | 1.9 | 0 | 120 | 0.77 | 0.97 |
| UNIVERSITA DEGLI STUDI DI PISA | 22 | 9 | 0.7 | 0 | 54 | 0.71 | 0.94 |
| UNIVERSITA DEGLI STUDI DI GENOVA | 15 | 18 | 1.6 | 1 | 115 | 0.82 | 0.95 |
| UNIVERSITA DEGLI STUDI DI TORINO | 14 | 5 | 0.7 | 0 | 66 | 0.82 | 0.95 |
| UNIVERSITA DEGLI STUDI DI FIRENZE | 7 | 15 | 1 | 0 | 93 | 0.77 | 0.95 |
| UNIVERSITA DEGLI STUDI DI CAGLIARI | 3 | 17 | 1.8 | 4 | 750 | 0.81 | 0.97 |
| UNIVERSITA DEGLI STUDI DI BARI ALDO MO... | 9 | 12 | 0.9 | 0 | 52 | 0.84 | 0.97 |

Alive patent
families

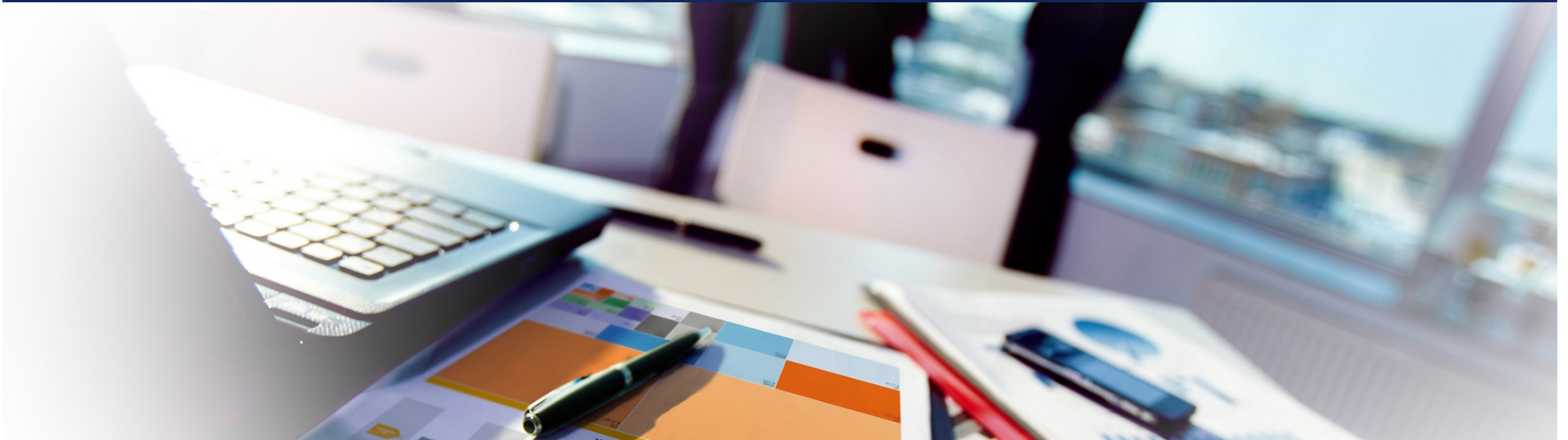
Backward
citations IPC/CPC
codes dispersy



A61 main subclasses by Netval's top actors



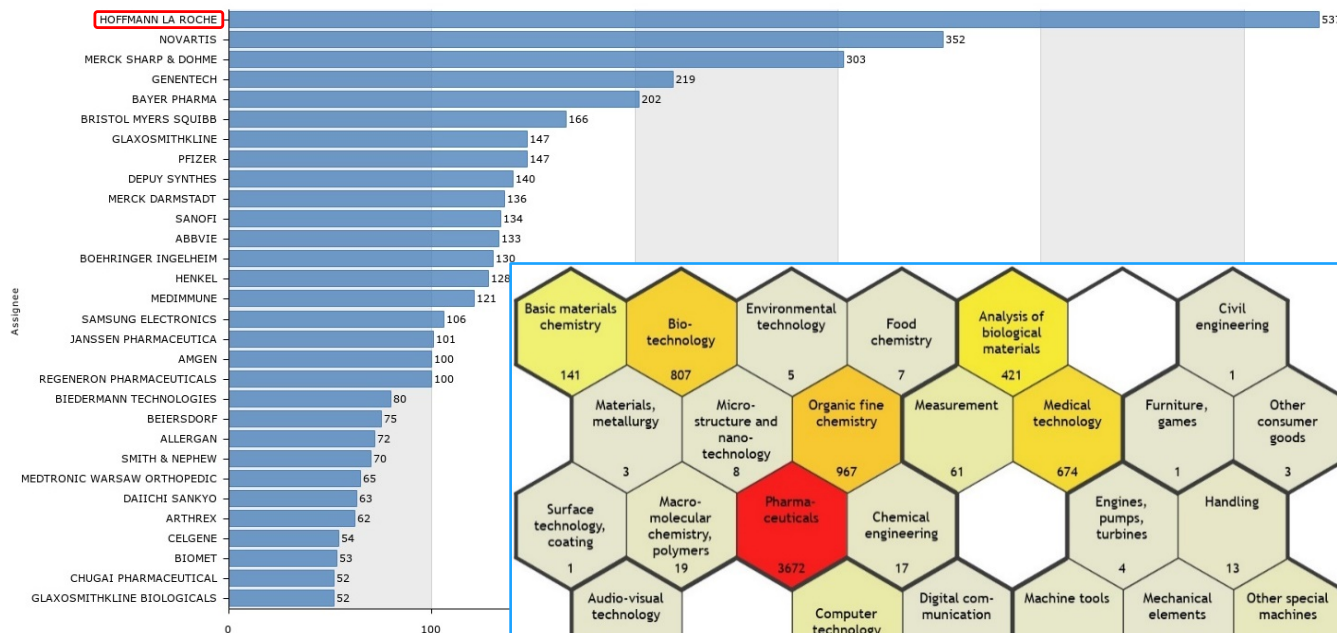
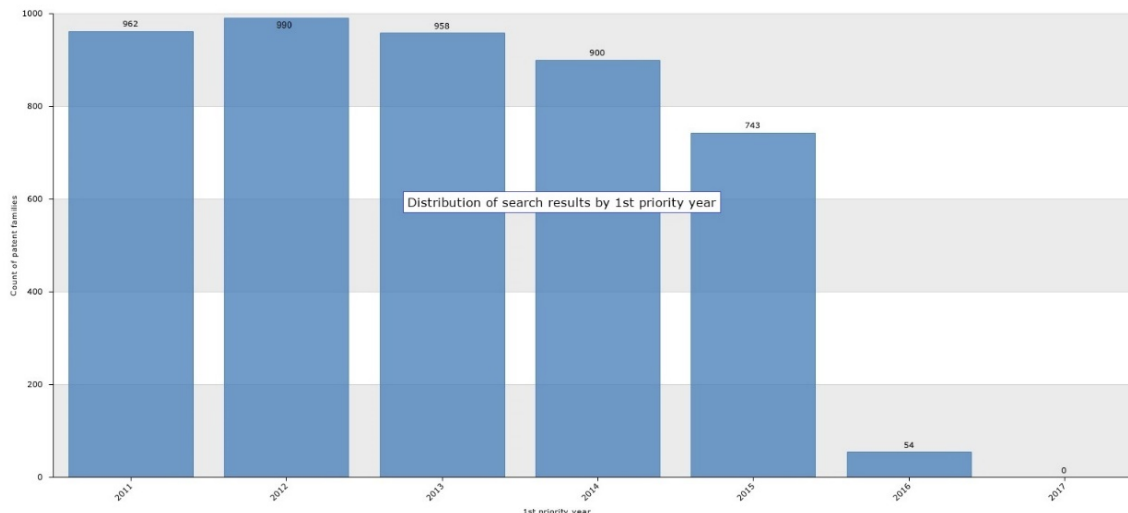
Big Pharma comparable art



Big Pharma

A similarity search on Netval's portfolio has been conducted.

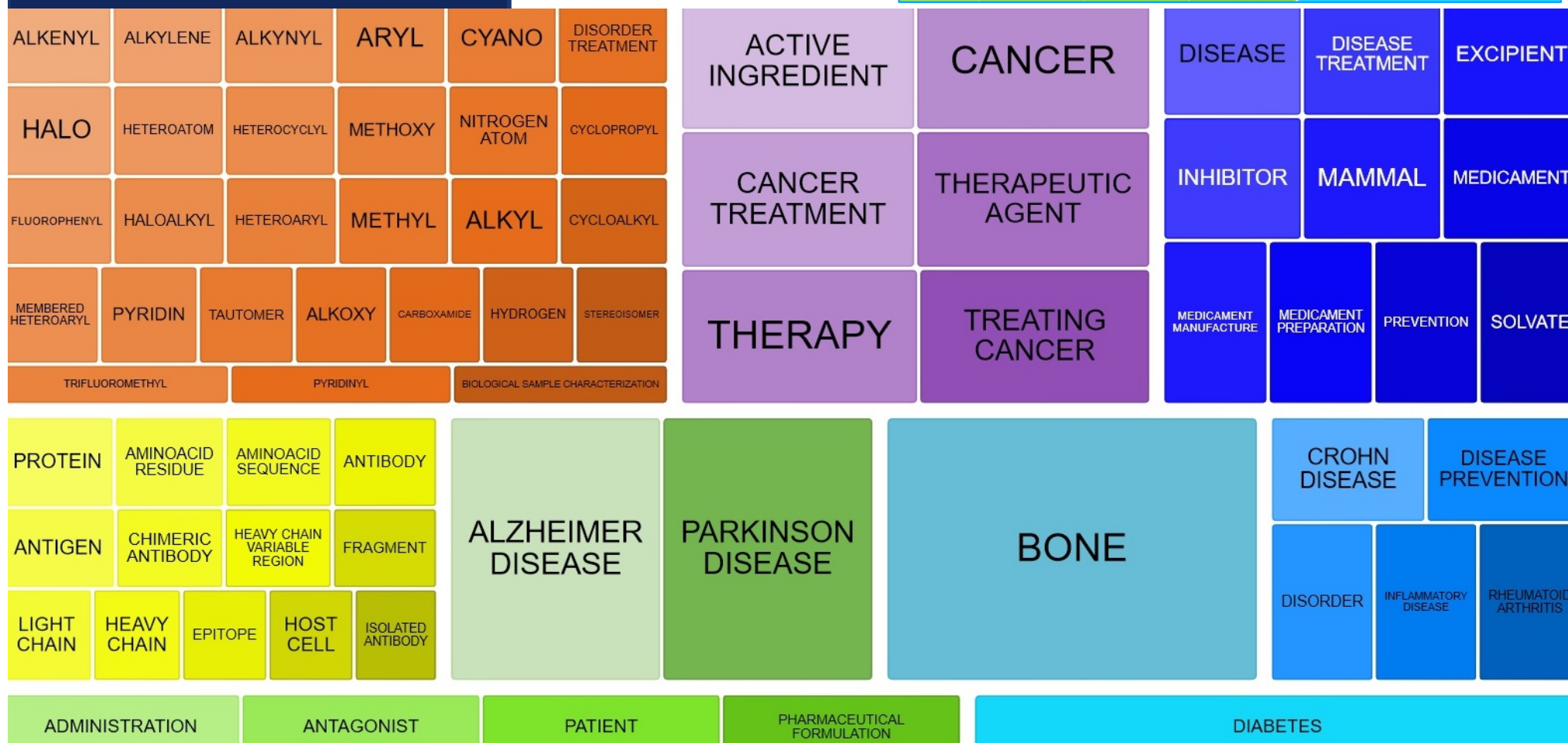
Based on patent classification codes, citations and concepts, the automated similarity search has been restricted on the **top private actors, PRD \geq 2011** and their most relevant patent families (decreasing the initial corpus of 28k to 4,6k patent families).



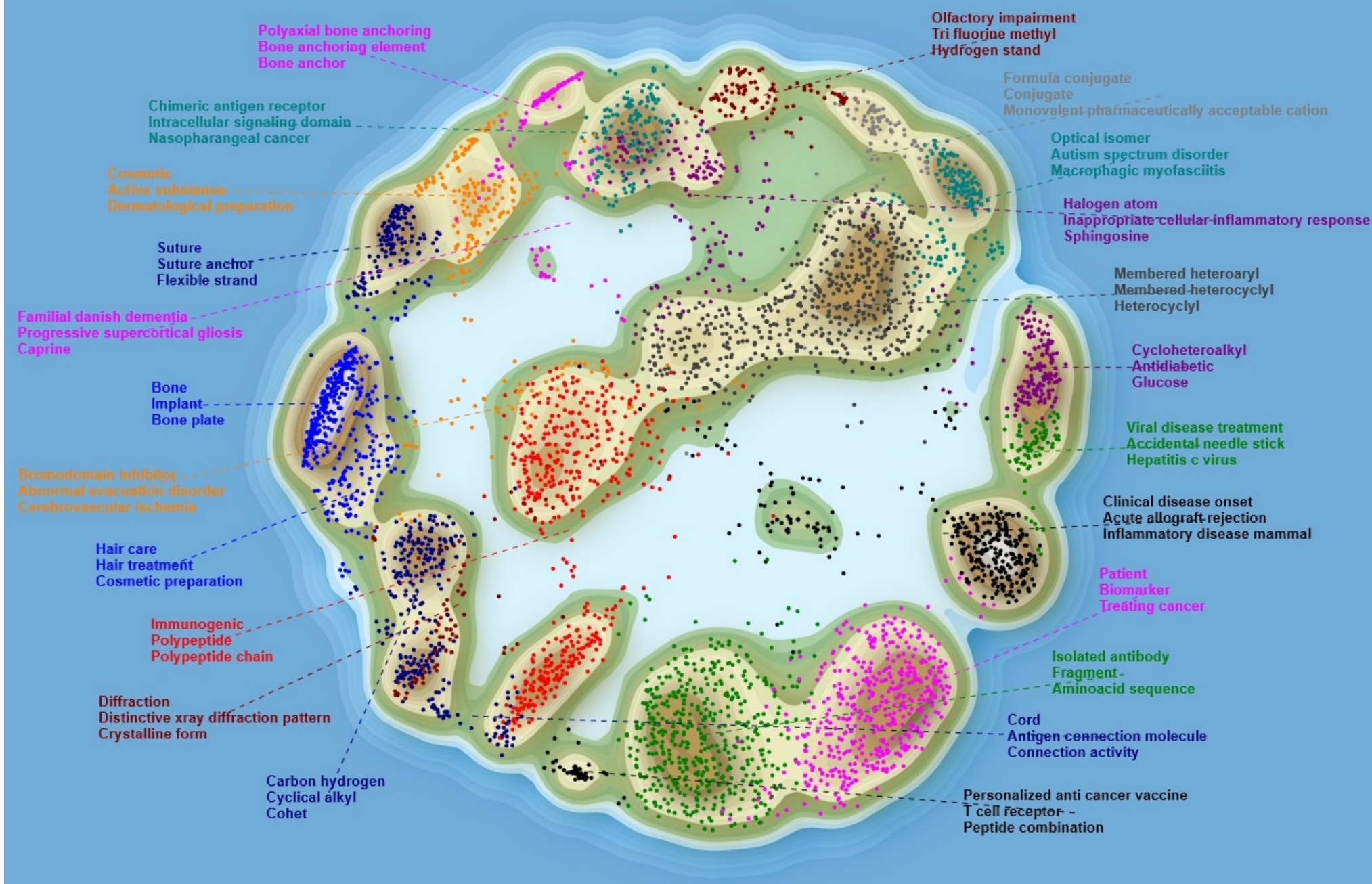
Big Pharma

Recent/top concepts in the comparable art

Molecules and cancer related concepts are preponderant



Big Pharma - Concepts golf map (3x bigger portfolio)



Roche portfolio

EPRD \geq 2010



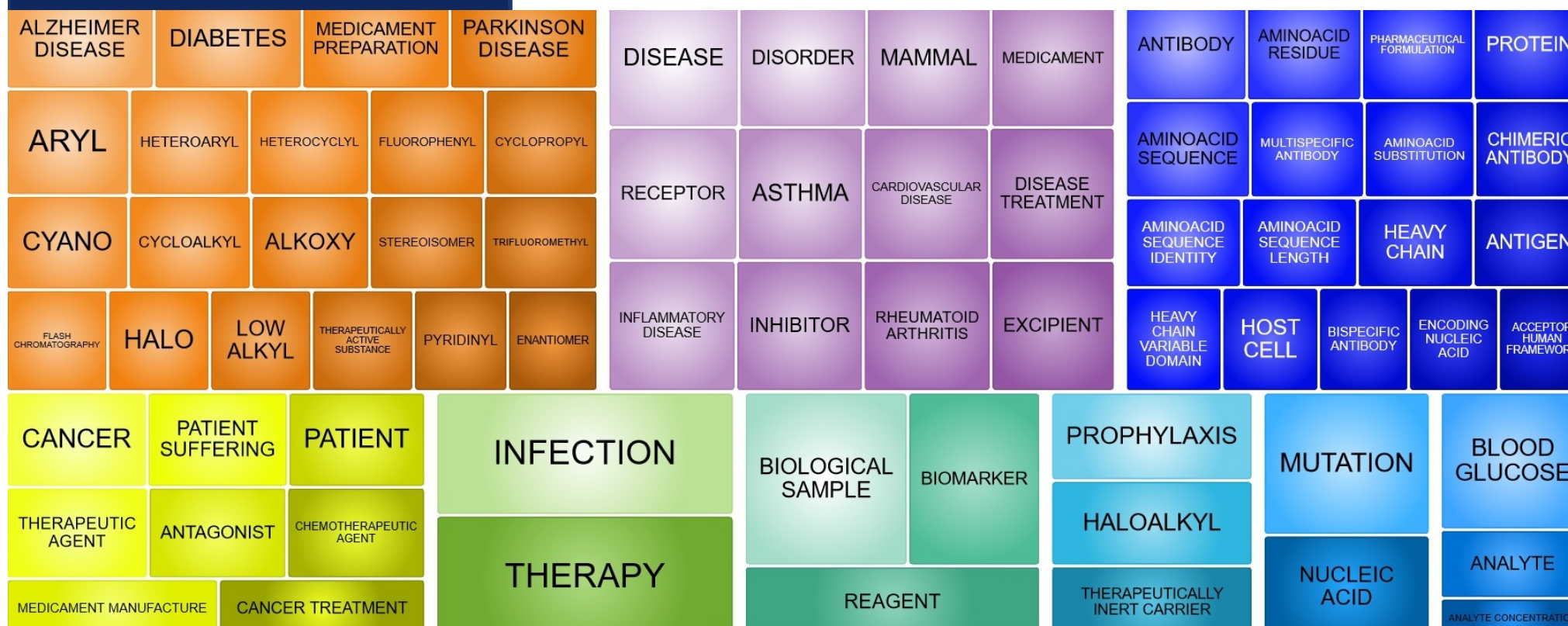
Roche portfolio

EPRD≥2010

Orbit Intelligence

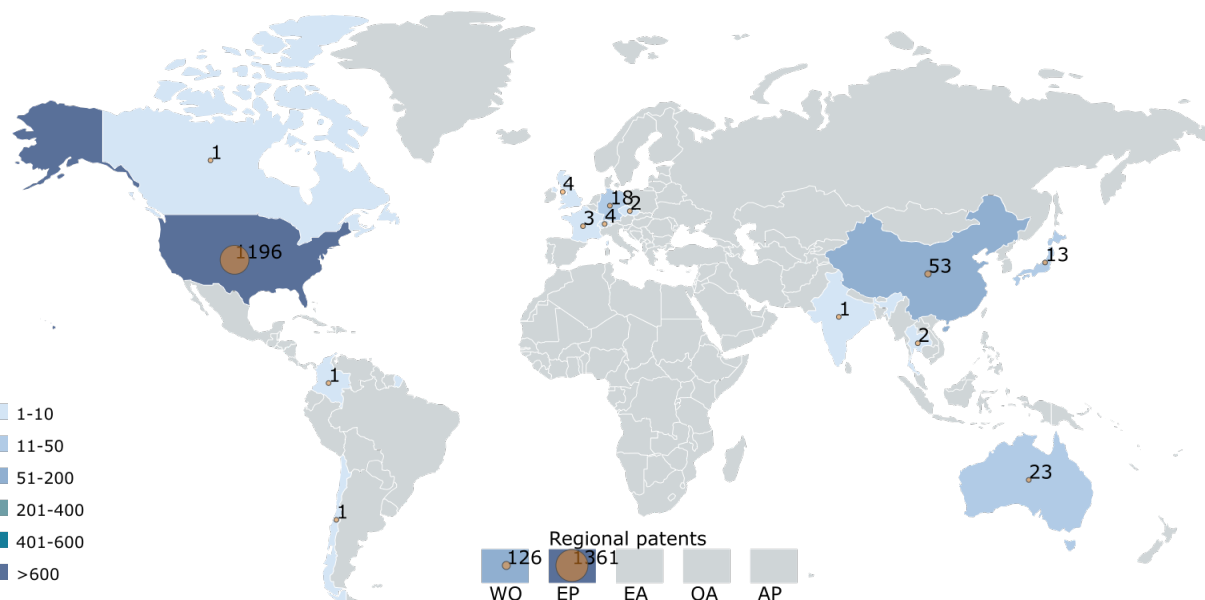
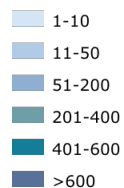
Concepts extraction

Various diseases
& therapeutics
related concepts



Roche portfolio

Priority countries
&
custom fields analysis
for EPRD≥2010



| | therapy | biotechnological | diagnostic | surgery | molecular biology | pharmacology | dentistry | sterilisation | hygiene |
|---------------------|---------|------------------|------------|---------|-------------------|--------------|-----------|---------------|---------|
| Sleep apnea | 1 | 1 | 1 | 5 | | | 5 | | |
| Ischemic disease | 14 | 7 | 7 | 5 | | | 9 | | |
| Ophtalmic disorder | 26 | 15 | 15 | 4 | | 7 | 5 | | |
| Fever | 24 | 13 | 5 | 6 | | 1 | 2 | | |
| Dyslipidemia | 64 | 34 | 1 | | | 14 | | | |
| Ulcer | 73 | 54 | 27 | | | | | | |
| Anti Inflammatory | 79 | 34 | 27 | | | | | | |
| Obesity | 87 | 39 | 5 | | | | | | |
| Crohn s disease | 97 | 63 | 27 | 6 | 1 | 1 | 2 | | |
| Hypertension | 101 | 45 | 29 | 6 | | 1 | 1 | | |
| Depression | 115 | 16 | 4 | 1 | | 13 | 5 | | 1 |
| Hepatitis | 115 | 60 | 12 | 4 | 1 | 11 | 3 | 1 | 1 |
| Parkinson s disease | 142 | 50 | 14 | 11 | | 11 | 16 | | |
| Lupus | 138 | 70 | 26 | 6 | | 3 | 4 | | |
| Nephropathy | 115 | 37 | 32 | 27 | 1 | 1 | 21 | | |
| Pain | 146 | 30 | 15 | 29 | 2 | 12 | 28 | | 1 |
| Arthritis | 230 | 103 | 38 | 11 | | 4 | 4 | | |
| Alzheimer | 231 | 97 | 31 | 11 | | 16 | 17 | | |
| Diabetes | 340 | 157 | 85 | 33 | 4 | 14 | 23 | 2 | 3 |
| Cancer | 595 | 475 | 178 | 30 | 11 | 15 | 4 | 1 | 1 |

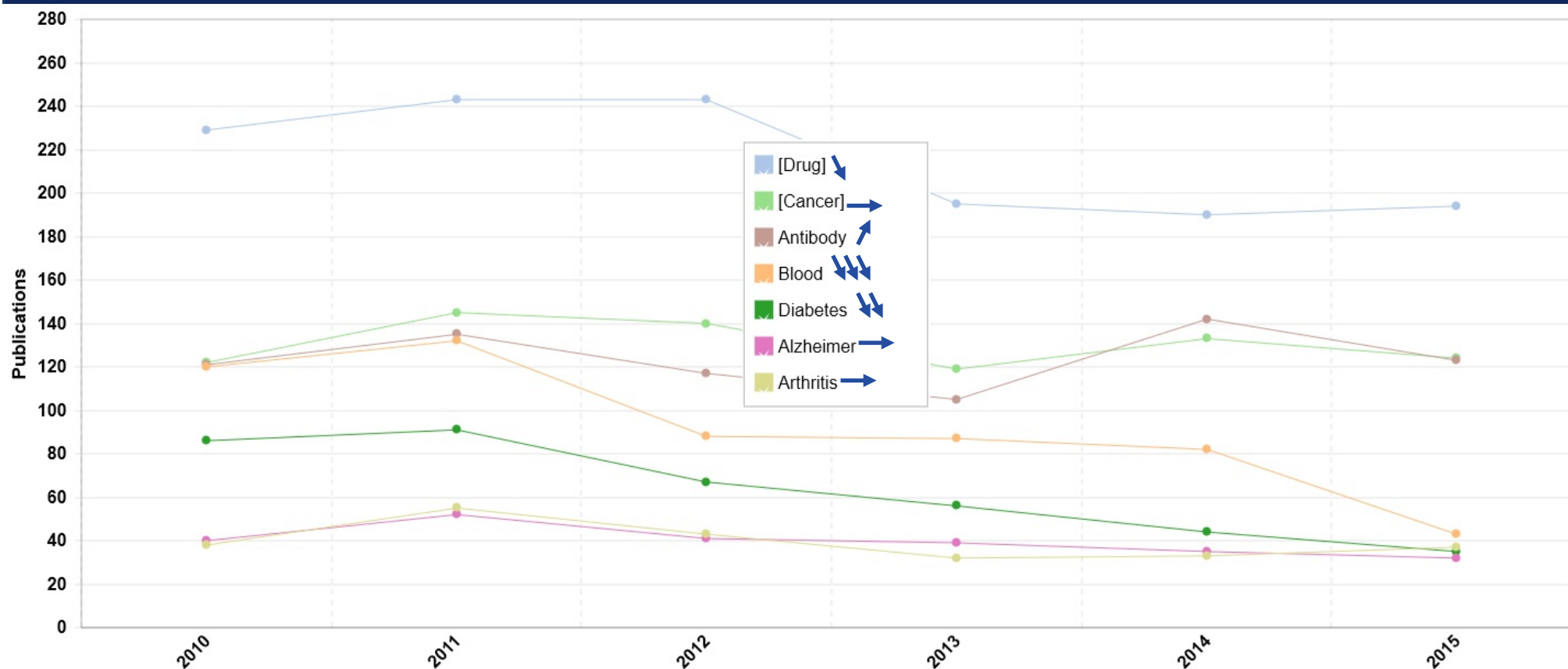
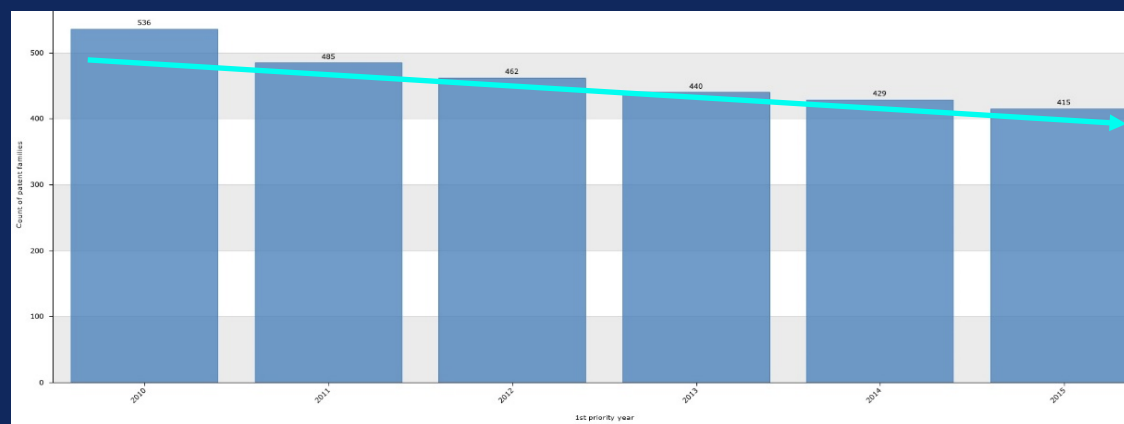
Very similar to
Netval's A61 portfolio

| | therapy | biotechnological | diagnostic | surgery |
|---------------------|---------|------------------|------------|---------|
| Parkinson s disease | 194 | 70 | 26 | 20 |
| Pain | 212 | 60 | 30 | 46 |
| Arthritis | 295 | 141 | 49 | 19 |
| Alzheimer | 298 | 129 | 43 | 17 |
| Diabetes | 411 | 184 | 96 | 44 |
| Cancer | 783 | 572 | 239 | 45 |

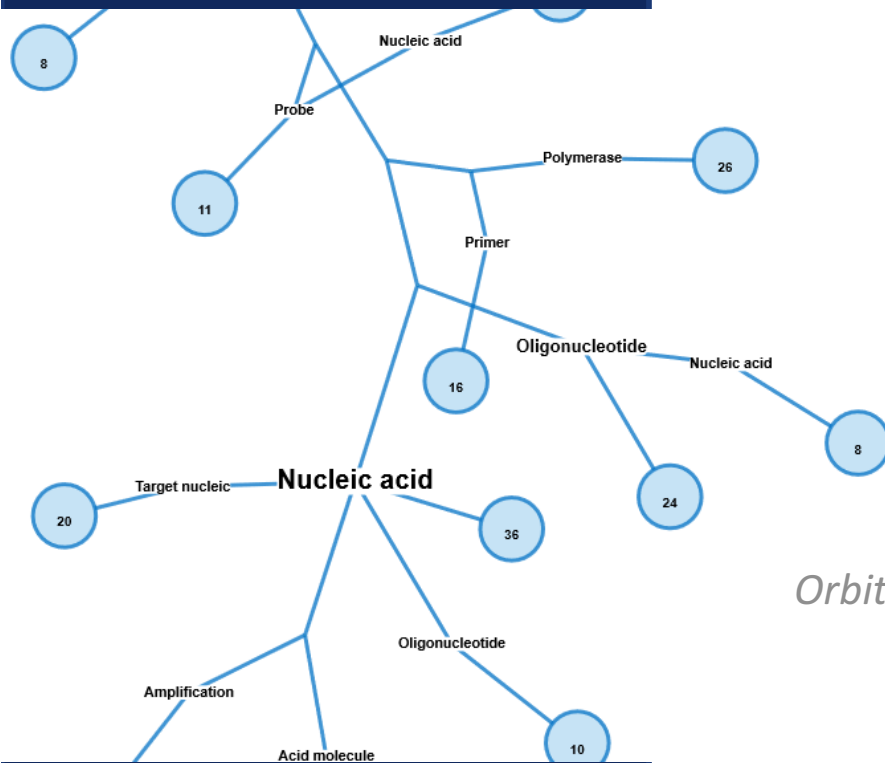
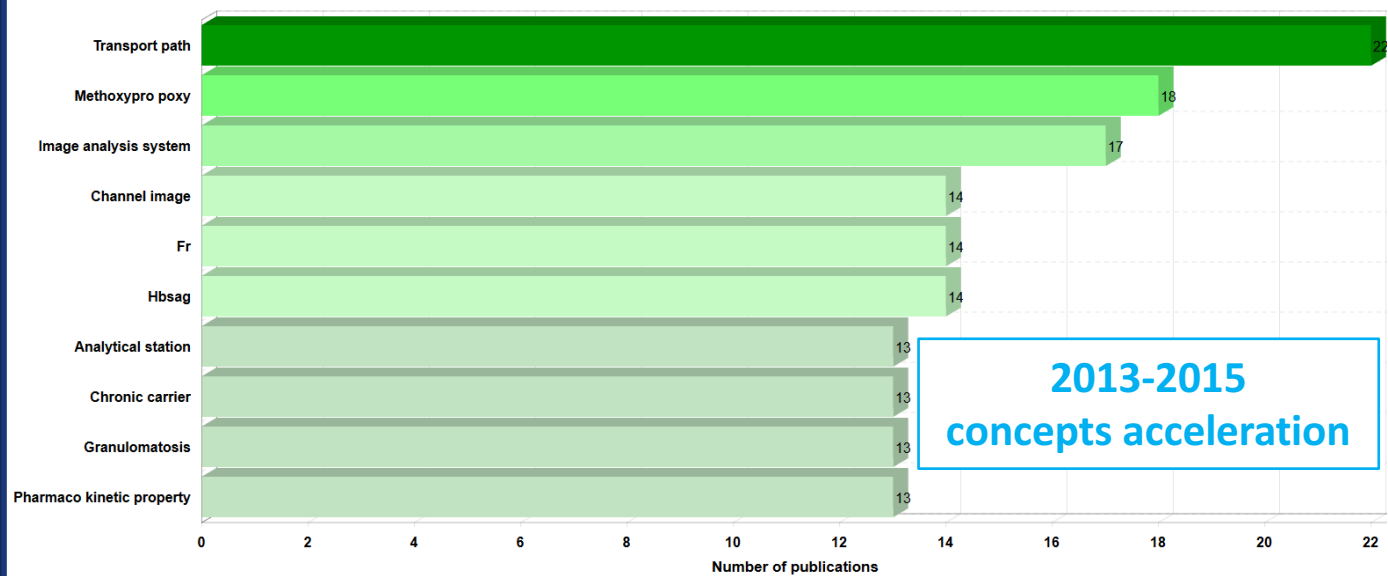


Concepts evolution inside Roche portfolio

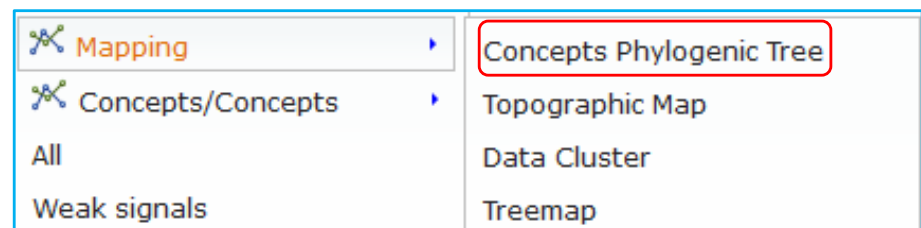
NB: slight decrease on new patent family creation in the A61 class



Trends in concepts for Roche 2010-2015 Orbit Intellixir



Explore concepts with
Orbit Intellixir concepts mappings

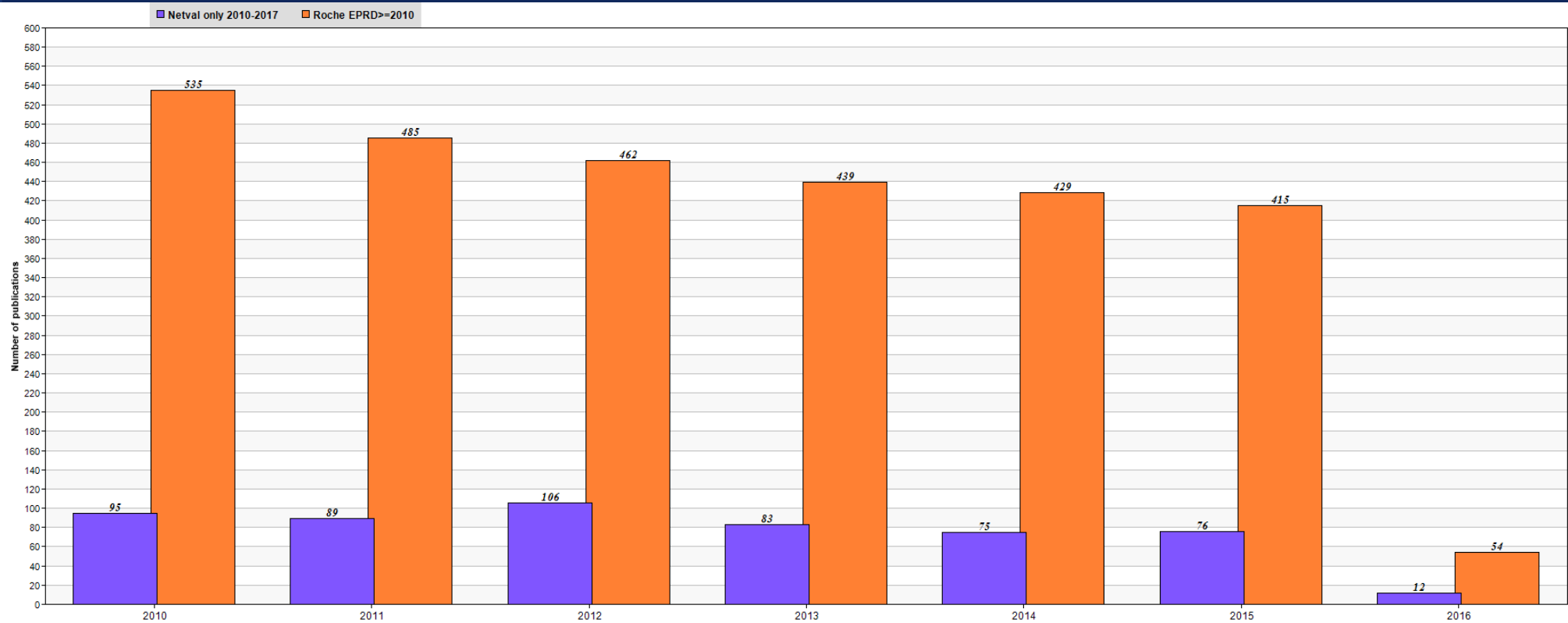


Portfolio comparison

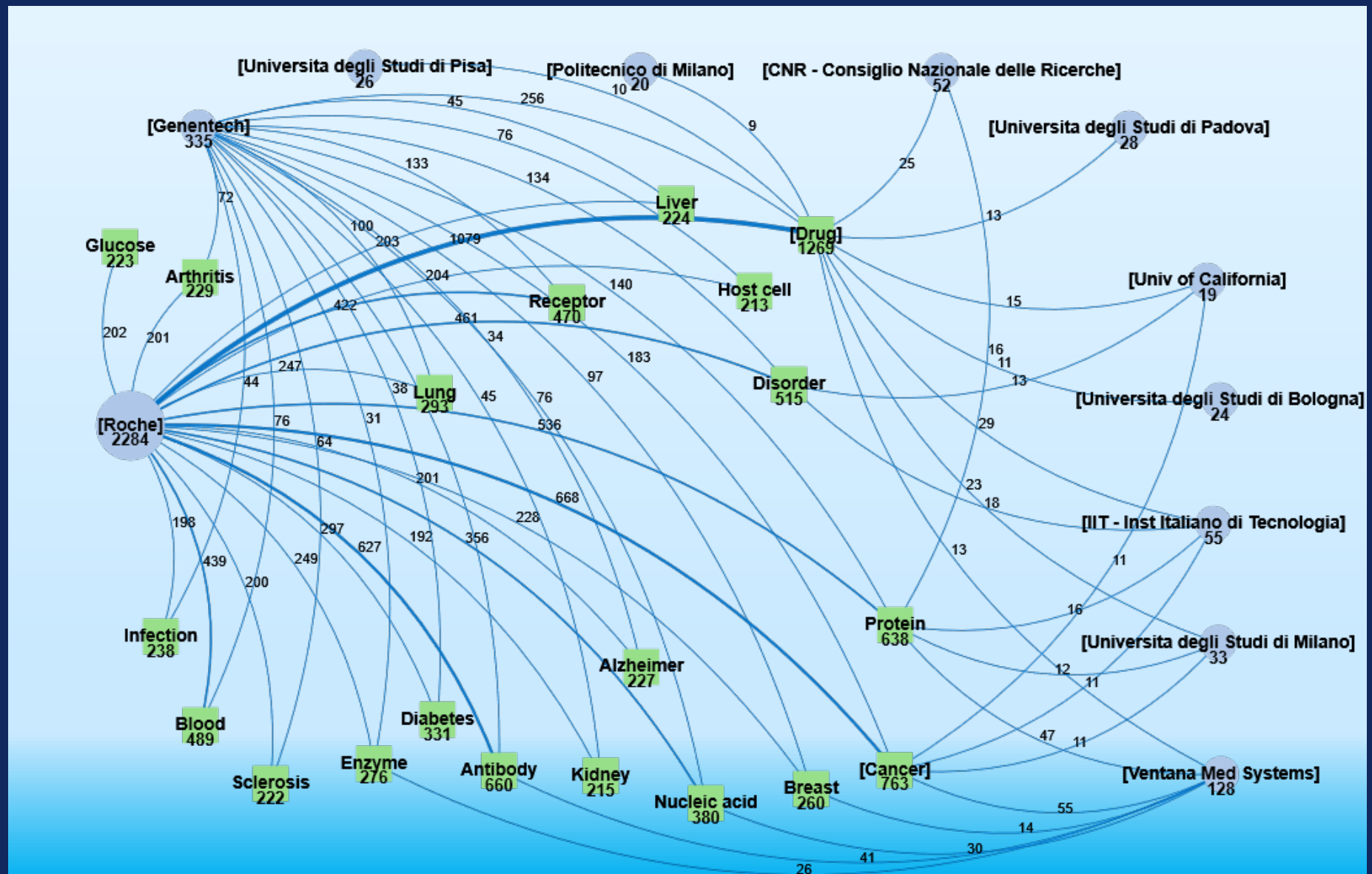
Netval's associates vs Roche



Time coverage



Concepts/affiliations network (2011-2017)



Specific & shared concepts or IPC codes

Orbit Intellixir – subdatabase comparison

| Netval only 2010-2017 | | Roche EPRD>=2010 | | Shared (Concept) | |
|------------------------|----|------------------------|-----|------------------|------|
| Dispositivo | 16 | Hvr | 160 | [Drug] | 1534 |
| Articulation | 13 | Inert carrier | 159 | Medicament | 972 |
| Cream | 12 | Iggl | 144 | [Cancer] | 905 |
| Flexion | 12 | Spiro | 137 | Antibody | 789 |
| Bone tissue | 11 | Hvr h3 | 135 | Protein | 774 |
| Wrist | 11 | Bispecific antibody | 135 | Cancer | 768 |
| Apt | 10 | Hvr h1 | 125 | Therapy | 717 |
| Flexion extension | 9 | Acid sequence identity | 120 | Disorder | 622 |
| Nanostructure | 9 | Oxetan | 119 | Blood | 620 |
| Tissue engineering | 9 | Prophylactic treatment | 118 | Receptor | 567 |
| Biocompatible material | 9 | Oxetan 3 | 115 | Drug | 493 |
| Synthesis process | 8 | Sequence b | 112 | Nucleic acid | 487 |
| Perceive | 8 | Methanesulfonyl | 111 | Tumor | 429 |
| Nanometric | 8 | Acid sequence b | 111 | Diabetes | 423 |
| Synthetic polymer | 8 | Analyzer | 110 | Lung | 330 |
| Orthopaedic | 7 | Igg4 | 106 | Enzyme | 318 |
| Light radiation | 7 | Hybridization | 106 | Glucose | 310 |
| Pulley | 7 | Acid methyl | 102 | Breast | 305 |
| Spontaneous breath | 7 | Trifluoro ethoxy | 98 | Prophylaxis | 298 |
| Rotation axe | 7 | Chloro pyridin | 97 | Infection | 280 |

| Netval only 2010-2017 | | Roche EPRD>=2010 | | Shared (IPC) | |
|---|----|--|-----|--|-----|
| A61H1/02: Apparatus for passive exercising, Stretching or bending apparatus for exercising | 12 | G01N35/00: Automatic analysis not limited to methods or materials provided for in any single one of groups | 168 | A61P35/00: Antineoplastic agents | 527 |
| A61B6/00: Apparatus for radiation diagnosis, e.g. combined with radiation therapy equipment | 7 | C07K16/46: Immunoglobulins, e.g. monoclonal or polyclonal antibodies, Hybrid immunoglobulins | 155 | A61K39/395: Medicinal preparations containing antigens or antibodies, Antibodies | 388 |
| A61L27/12: Materials for prostheses or for coating prostheses, Inorganic materials, Phosphorus-containing materials, e.g. apatite | 7 | C12P21/08: Preparation of peptides or proteins, Monoclonal antibodies | 115 | A61P43/00: Drugs for specific purposes, not provided for in groups | 372 |
| A61L27/54: Materials for prostheses or for coating prostheses, Materials characterised by their function or physical properties, Biologically active materials, e.g. therapeutic substances | 7 | C12N1/21: Micro-organisms, e.g. protozoa, Bacteria, modified by introduction of foreign genetic material | 113 | C12Q1/68: Measuring or testing processes involving enzymes or micro-organisms, involving nucleic acids | 296 |
| A61L27/56: Materials for prostheses or for coating prostheses, Materials characterised by their function or physical properties, Porous or cellular materials | 7 | C12N1/19: Micro-organisms, e.g. protozoa, Fungi, Yeasts, modified by introduction of foreign genetic material | 108 | A61P25/00: Drugs for disorders of the nervous system | 283 |
| A61M16/04: Devices for influencing the respiratory system of patients by gas treatment, e.g. mouth-to-mouth respiration, Tracheal tubes | 7 | G01N33/48: Investigating or analysing materials by specific methods not covered by groups , Biological material, e.g. blood, urine | 107 | C07K16/28: Immunoglobulins, e.g. monoclonal or polyclonal antibodies, against material from animals or humans, against receptors, cell surface antigens or cell surface determinants | 282 |
| A61B1/04: Instruments for performing medical examinations of the interior of cavities or tubes of the body by visual or photographic inspection, e.g. endoscopes, combined with photographic or television appliances | 6 | G01N35/04: Automatic analysis not limited to methods or materials provided for in any single one of groups , using a plurality of sample containers moved by a conveyor system past one or more treatment or analysis stations, Details of the conveyor system | 105 | C12N15/09: Mutation or genetic engineering, Recombinant DNA- technology | 276 |
| A61B17/00: Surgical instruments, devices or methods, e.g. tourniquets | 6 | C12N1/15: Micro-organisms, e.g. protozoa, Fungi, modified by introduction of foreign genetic material | 104 | A61P29/00: Non-central analgesic, antipyretic or antiinflammatory agents, e.g. antirheumatic agents | 253 |
| A61B5/103: Measuring for diagnostic purposes, Measuring devices for testing the shape, pattern, size or movement of the body or parts thereof, for diagnostic purposes | 6 | B01L3/00: Containers or dishes for laboratory use, e.g. laboratory glassware | 90 | A61P25/28: Drugs for disorders of the nervous system, for treating neurodegenerative disorders of the central nervous system, e.g. nootropic agents, cognition enhancers, drugs for treating Alzheimers disease or other forms of dementia | 228 |
| A61H3/00: Appliances for aiding patients or disabled persons to walk about | 6 | G01N35/02: Automatic analysis not limited to methods or materials provided for in any single one of groups , using a plurality of sample containers moved by a conveyor system past one or more treatment or analysis stations | 85 | G01N33/68: Investigating or analysing materials by specific methods not covered by groups , Biological material, e.g. blood, urine, Chemical analysis of biological material, e.g. blood, urine, involving proteins, peptides or amino acids | 200 |

Netval portfolio

Further analyses with Orbit Platinum

Evaluation modules



Orbit Platinum Evaluation modules (guided activities)



- **8 available Evaluation modules**
- Provide unique tables and charts
- Use many original metrics
- Help you take key strategic decisions
- Completely guided, automated & customizable
- Working on 10k fampats portfolios

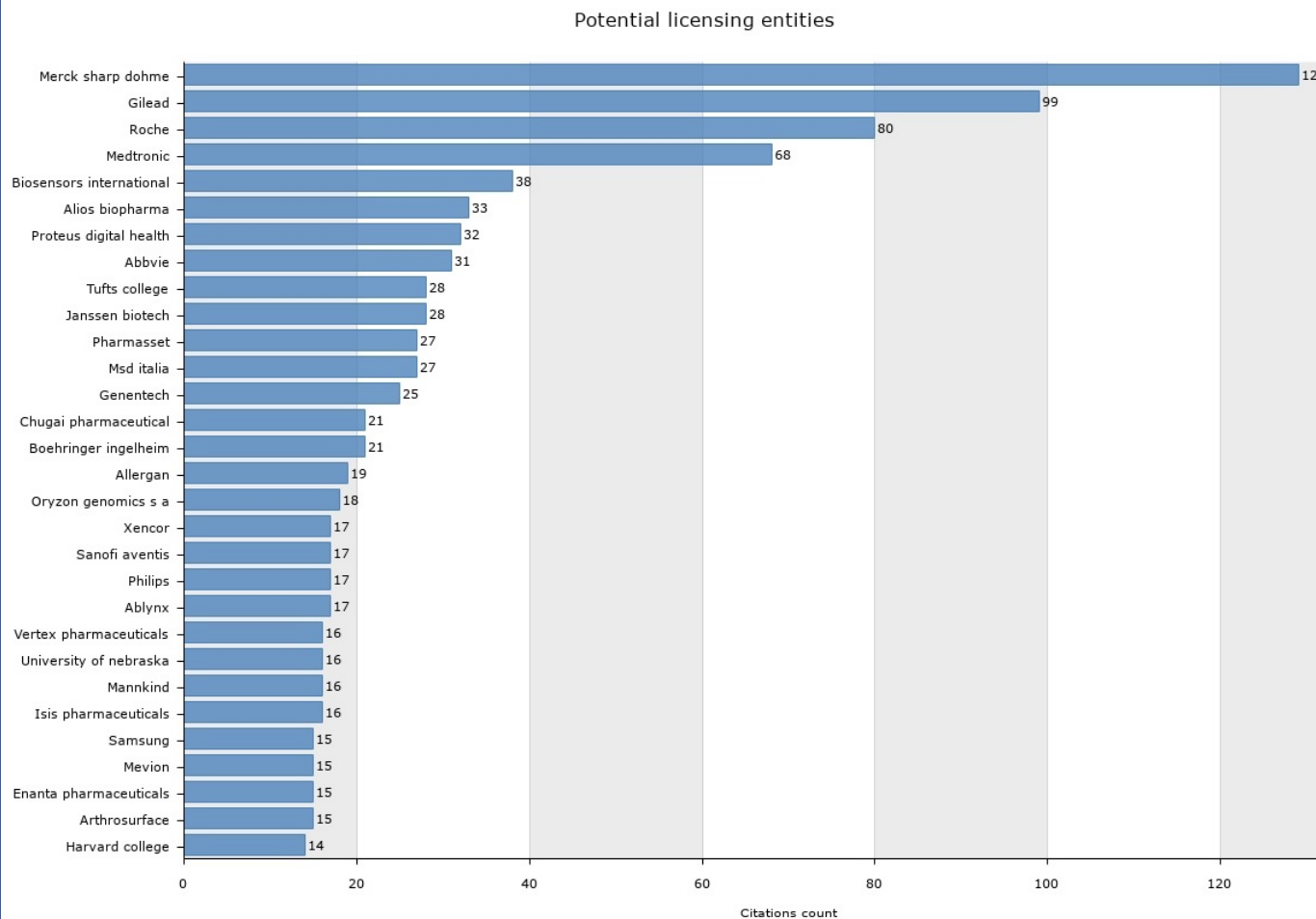
Orbit Platinum Evaluation modules



Netval Licensing out Orbit Platinum

This graph shows the entities that have most frequently cited your portfolio.

This list is typically used to identify other parties that might have an interest in licensing your patents.



Ranked list of your most valuable patents to eventually license out

| Title | Applicant/Assignee | Publication number | Publication | Family size | Fwd cites | Cites/yr | Predator | Generality | Originality | Validated | Rank |
|---|---|--------------------|-------------|-------------|-----------|----------|----------|------------|-------------|-----------|-------|
| Methods and compositions for treating hepatitis c virus | UNIVERSITA DEGLI STUDI DI CAGLIARI* | WO200190121 | 2001-06-29 | 61 | 250 | 15.63 | PREDATOR | 0.85 | 0.87 | YES | 22.23 |
| 1'-, 2'- and 3'- modified nucleoside derivatives for treating flaviviridae infections | CNRS* IDENIX* UNIVERSITA DEGLI STUDI DI CAGLIARI* | WO2004003000 | 2003-12-31 | 72 | 182 | 14 | PREDATOR | 0.85 | 0.88 | YES | 21.39 |
| Antibodies binding to receptors kir2dl1, -2, 3 but not kir2ds4 and their therapeutic use | INNATE PHARMA* UNIVERSITA DEGLI STUDI DI GENOVA* | WO2005003172 | 2005-01-03 | 116 | 48 | 4 | NONE | 0.84 | 0.88 | YES | 19.06 |
| Monoclonal antibodies against nkg2a | INNATE PHARMA* | WO2006070286 | 2006-07-06 | 55 | 28 | 2.55 | SHARK | 0.83 | 0.88 | YES | 18.98 |
| Methods and compositions for treating flaviviruses and pestiviruses | IDENIX* UNIVERSITA DEGLI STUDI DI CAGLIARI* | WO200192282 | 2001-12-06 | 17 | 180 | 12 | PREDATOR | 0.85 | 0.87 | YES | 18.93 |
| Methods and compositions for increasing the efficiency of therapeutic antibodies using nk cell potentiating compounds | INNATE PHARMA* | WO2005009465 | 2005-02-03 | 37 | 43 | 3.58 | SHARK | 0.83 | 0.88 | YES | 18.5 |
| Method for the humanization of antibodies and humanized antibodies thereby obtained | ABBOTT* | WO2005061540 | 2005-06-25 | 87 | 41 | 3.42 | PREDATOR | 0.87 | 0.88 | NO | 17.82 |
| Tranylcypromine derivatives as inhibitors of histone demethylase lsd1 and/or lsd2 | FOUNDATION IEO* UNIVERSITA DEGLI STUDI DI MILANO* UNIVERSITA DEGLI STUDI DI PAVIA* UNIVERSITA DEGLI STUDI DI ROMA LA | WO2011131576 | 2011-10-27 | 18 | 32 | 6.4 | SHARK | 0.79 | 0.82 | YES | 16.97 |
| Method to produce hyaluronic acid functionalized derivatives and formation of hydrogels thereof | UNIVERSITA DEGLI STUDI DI PALERMO* | WO2010061005 | 2010-05-29 | 29 | 21 | 3 | SHARK | 0.92 | 0.86 | NO | 16.57 |
| Modified 2' and 3' nucleoside prodrugs for treating flaviviridae infections | CNRS* IDENIX* UNIVERSITA DEGLI STUDI DI CAGLIARI* UNIVERSITE DE MONTPELLIER 2* | US2007027104 | 2005-09-21 | 7 | 72 | 6.55 | PREDATOR | 0.84 | 0.87 | YES | 16.29 |
| Interstitial microwave antenna with miniaturized choke for hyperthermia and surgery | CNR* | WO02061880 | 2002-07-31 | 26 | 62 | 4.13 | SHARK | 0.81 | 0.76 | NO | 16.21 |
| Method to modulate the expression of genes inducing the parthenocarpic trait in plants | CUPRON CORPRION* | WO200075415 | 1999-07-16 | 3 | 31 | 1.72 | SHARK | 0.97 | 0.92 | NO | 16.2 |
| System for remote monitoring of physiological parameters of an individual, method and computer program product therefor | ISTITUTO SUPERIORE MARIO BOELLA : POLITECNICO DI TORINO* | WO2006134041 | 2006-12-14 | 8 | 54 | 5.4 | SHARK | 0.94 | 0.81 | NO | 16.17 |
| 2'-branched nucleosides and flaviviridae mutation | IDENIX* UNIVERSITA DEGLI STUDI DI CAGLIARI* | WO2004046331 | 2004-06-03 | 23 | 89 | 6.85 | PREDATOR | 0.86 | 0.87 | NO | 15.92 |
| Anti-met monoclonal antibody, fragments and vectors thereof, for the treatment of tumors and corresponding products | METHERESIS TRANSLATIONAL RESEA | WO2007090807 | 2007-08-16 | 48 | 20 | 2 | PREDATOR | 0.85 | 0.9 | NO | 15.72 |
| A plurisubstituted hydroxyapatite and the composite thereof with a natural and/or synthetic polymer, their preparation and uses | FIN CERAM FAENZA* | WO2007045954 | 2007-04-19 | 23 | 8 | 0.8 | SHARK | 0.85 | 0.86 | NO | 15.7 |
| Modified cytokines for use in cancer therapy | FONDAZIONE SAN RAFFAELE DEL MO | WO200161017 | 2000-02-15 | 48 | 18 | 1.06 | PREDATOR | 0.84 | 0.9 | NO | 15.63 |
| Method of identifying a consensus sequence for intracellular antibodies | MEDICAL RESEARCH COUNCIL* SCUOLA SUPERIORE SANT ANNA* | WO03014960 | 2003-02-20 | 1 | 40 | 2.86 | SHARK | 0.86 | 0.89 | NO | 15.59 |
| Targeted polymeric conjugates and uses thereof | RAMOT AT TEL AVIV UNIVERSITY* UNIVERSITA DEGLI STUDI DI PADOVA* | WO2012153297 | 2012-11-15 | 5 | 19 | 4.75 | SHARK | 0.87 | 0.92 | NO | 15.55 |
| Process for the improvement of spermatozoa fertilization activity | APPLIED RESEARCH SYSTEMS* | WO200107021 | 1999-07-26 | 3 | 16 | 0.89 | SHARK | 0.91 | 0.91 | NO | 15.55 |
| Use of cox-2 inhibitors for preventing immunodeficiency | LAURAS* | WO200196353 | 2001-12-20 | 28 | 61 | 4.07 | PREDATOR | 0.88 | 0.84 | NO | 15.53 |
| Human anti-folate receptor alpha antibodies and antibody fragments for the radioimmunotherapy of ovarian carcinoma | ADVANCED ACCELERATOR APPLICATI ISTITUTO NAZIONALE DEI TUMORI* | WO2008031577 | 2008-03-19 | 14 | 13 | 1.44 | SHARK | 0.86 | 0.86 | NO | 15.46 |
| Hydrogels of hyaluronic acid and alpha, beta-polyaspartylhydrazide and their biomedical and pharmaceutical uses | UNIVERSITA DEGLI STUDI DI PALERMO* | WO2006001046 | 2004-09-28 | 2 | 10 | 0.83 | SHARK | 0.89 | 0.94 | NO | 15.44 |
| Sirna-mediated silencing of genes for treating chemotherapeutic drug-resistant epithelial tumors | UNIVERSITA DEGLI STUDI DI MILANO* | WO2008110624 | 2008-09-18 | 41 | 19 | 2.38 | PREDATOR | 0.84 | 0.9 | NO | 15.35 |
| Human mini-antibody cytotoxic for tumor cells which express the erbb2 receptor | BIOTECNOL S A* UNIVERSITA DEGLI STUDI DI NAPOLI FE | WO03006509 | 2001-07-10 | 8 | 18 | 1.13 | SHARK | 0.87 | 0.86 | NO | 15.35 |

Orbit Platinum Evaluation modules



Netval Portfolio pruning Orbit Platinum

- ☒ Most likely to abandon (129)
- ☒ Likely to abandon (76)
- ☒ Possible to abandon (158)
- ☒ Unlikely pruning candidates (457)
- ☒ Unclassified (49)

Group classification criteria

Most likely to abandon

Age: ≥ 3 AND Family size: ≤ 1 AND Fwd cites: ≤ 0 AND Cites/yr: ≤ 0 AND Self fwd: ≤ 0 AND Originality: ≤ 0.8

Likely to abandon

Age: ≥ 3 AND Family size: ≤ 2 AND Fwd cites: ≤ 2 AND Cites/yr: ≤ 0.5 AND Self fwd: ≤ 1 AND Originality: ≤ 0.85

Possible to abandon

Age: ≥ 3 AND Family size: ≤ 5 AND Fwd cites: ≤ 5 AND Cites/yr: ≤ 0.9 AND Self fwd: ≤ 2 AND Originality: ≤ 0.9

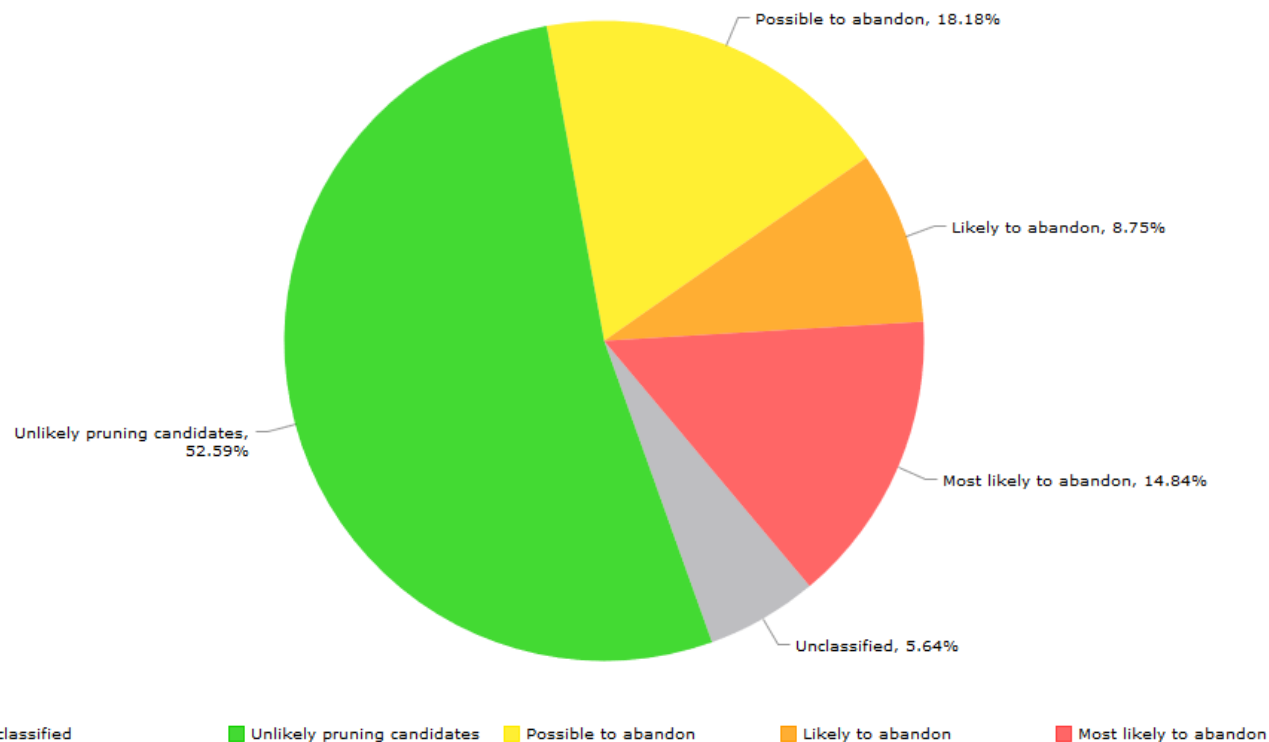
Unlikely pruning candidates

Age: ≤ 3 OR ≥ 7 OR ≥ 10 OR Cites/yr: ≥ 2.3 OR Self fwd: ≥ 1 OR Originality: ≥ 0.95

Apply Restore default

Regarding the IP cost management, this module will help you to select which patents to maintain or not, here is the analysis of Netval's associates portfolio

Report overview



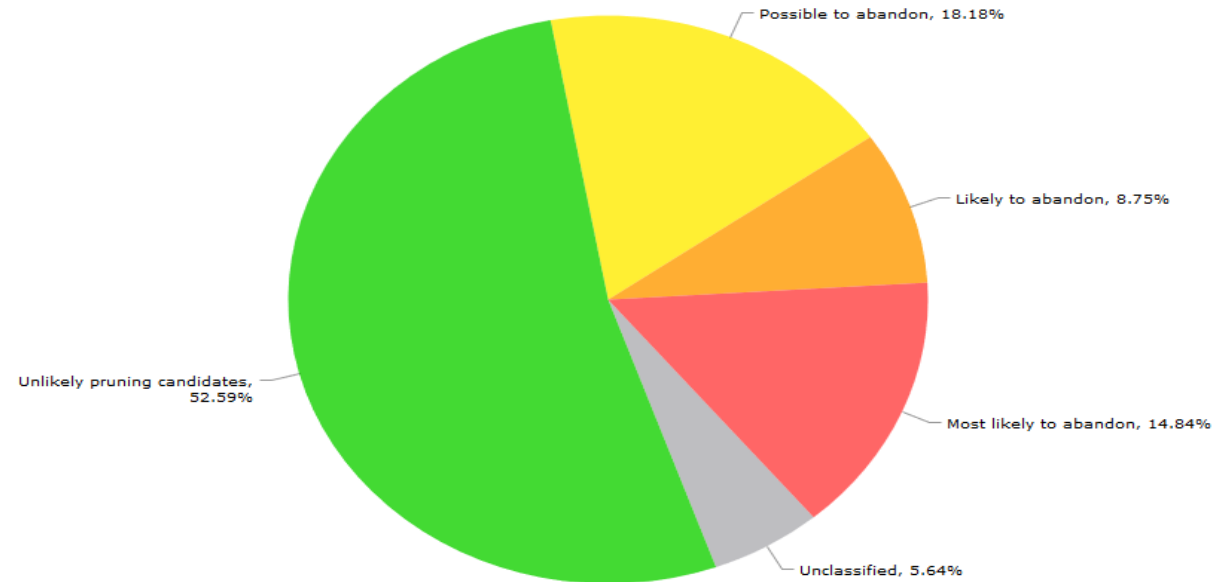
You can access to the patents ranked list and the classification criteria

You also can customize the categorization

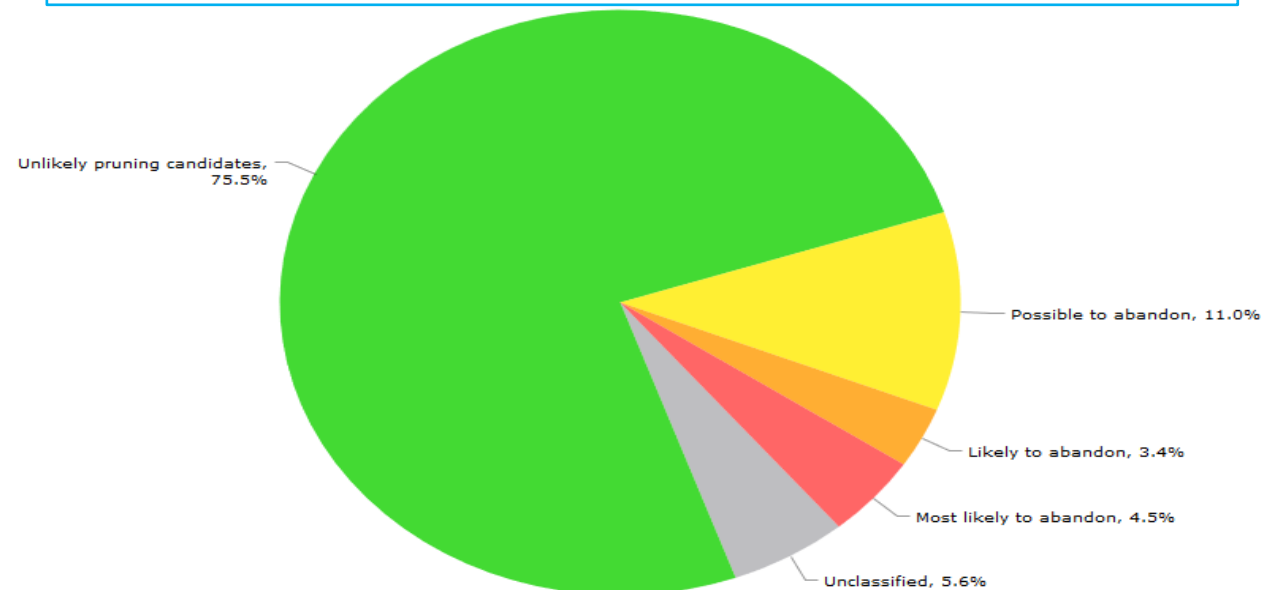
Comparison between Netval and Roche (big pharma)

Portfolio pruning Orbit Platinum

Netval Portfolio Pruning



Roche Portfolio Pruning



Here are detailed the metrics of the 1st patents most likely to abandon for NETVAL

| # | Cat | Title | Applicant/Assignee | Publication number | Publication | Age | Family size | Cites/yr | Fwd cites | Predator | Generality | Originality | Validated | Self fwd | Self back | Ind claim |
|-----|-----|---|---|--------------------|-------------|-----|-------------|----------|-----------|----------|------------|-------------|-----------|----------|-----------|-----------|
| 1. | | Particelle attive per applicazioni bio-analitiche | UNIVERSITA DEGLI STUDI DI PADOVA | ITBO20080485 | 2010-02-01 | 7 | 1 | 0 | 0 | NONE | 0 | 0 | NO | 0 | 0 | |
| 2. | | Derivati della c-ciclopentilglicina. | UNIVERSITA DEGLI STUDI DI PADOVA | ITMI20002300 | 2002-04-24 | 15 | 1 | 0 | 0 | NONE | 0 | 0 | NO | 0 | 0 | |
| 3. | | Nicardipine hydrochloride dihydrate and its salts | CONSEJO SUPERIOR DE INVESTIGACIONES CIENTIFICAS | WO2009133180 | 2009-11-05 | 7 | 1 | 0 | 0 | NONE | 0 | 0.75 | NO | 0 | 0 | 1 |
| 4. | | Biomateriale composito e processo per la sua preparazione | UNIVERSITA DEGLI STUDI DI PADOVA | ITMI20090274 | 2010-08-27 | 7 | 1 | 0 | 0 | NONE | 0 | 0 | NO | 0 | 0 | |
| 5. | | Humanized anti-NGF antibodies | LAY LINE GENOMIC | CN101724070 | 2010-06-09 | 7 | 1 | 0 | 0 | NONE | 0 | 0 | NO | 0 | 0 | 1 |
| 6. | | Derivati polinucleari di ti(v) con leganti 4-mercaptati | CONSIGLIO NAZIONALE DELLE RICERCHE | ITRM990633 | 1999-10-15 | 17 | 1 | 0 | 0 | NONE | 0 | 0 | NO | 0 | 0 | |
| 7. | | Antiviral peptides | CONSIGLIO NAZIONALE DELLE RICERCHE | WO2012101617 | 2012-07-29 | 5 | 1 | 0 | 0 | NONE | 0 | 0 | NO | 0 | 0 | 4 |
| 8. | | Methods and compositions for increasing the expression of a protein | INNATE PHARMA* | CN102772798 | 2012-11-14 | 4 | 1 | 0 | 0 | NONE | 0 | 0 | NO | 0 | 0 | 1 |
| 9. | | Multifunctional nanostructures as trimodal contrast agents | UNIVERSIDAD DE CALIFORNIA | WO2011070212 | 2011-06-16 | 6 | 1 | 0 | 0 | NONE | 0 | 0 | NO | 0 | 0 | 1 |
| 10. | | Particelle attive per applicazioni bio-analitiche | UNIVERSITA DEGLI STUDI DI PADOVA | ITBO20080486 | 2010-02-01 | 7 | 1 | 0 | 0 | NONE | 0 | 0 | NO | 0 | 0 | |
| 11. | | Process for the synthesis of funicone ar | CONSIGLIO NAZIONALE DELLE RICERCHE | WO2012042482 | 2012-03-29 | 5 | 1 | 0 | 0 | NONE | 0 | 0 | NO | 0 | 0 | 4 |
| 12. | | Processo per preparare imidazo-piridino | UNIVERSITA DEGLI STUDI DI PADOVA | ITMI972360 | 1999-04-18 | 18 | 1 | 0 | 0 | NONE | 0 | 0 | NO | 0 | 0 | |
| 13. | | Nuovo impiego terapeutico o preventivo di un composto | UNIVERSITA DEGLI STUDI DI PADOVA | ITBS20090042 | 2010-09-11 | 6 | 1 | 0 | 0 | NONE | 0 | 0 | NO | 0 | 0 | |
| 14. | | Nuova tipologia di inibitori dell'enzima ald | UNIVERSITA DEGLI STUDI DI PADOVA | ITFI20120053 | 2013-09-14 | 3 | 1 | 0 | 0 | NONE | 0 | 0 | NO | 0 | 0 | |
| 15. | | Sistema di iniezione pulsante cardio-sinc | UNIVERSITA DEGLI STUDI DI PADOVA | ITPG20000013 | 2001-09-03 | 16 | 1 | 0 | 0 | NONE | 0 | 0 | NO | 0 | 0 | |
| 16. | | Ferrimagnetic colloidal nanoclusters of m | UNIVERSITA DEGLI STUDI DI PADOVA | GR1008081 | 2014-01-17 | 3 | 1 | 0 | 0 | NONE | 0 | 0 | NO | 0 | 0 | |
| 17. | | Anatomical image processing method for | CONSIGLIO NAZIONALE DELLE RICERCHE | ITPI990069 | 1999-10-29 | 17 | 1 | 0 | 0 | NONE | 0 | 0 | NO | 0 | 0 | |
| 18. | | Target ottico, dispositivo e metodo per la | MEDITECH* | ITMI20112382 | 2013-06-24 | 4 | 1 | 0 | 0 | NONE | 0 | 0.75 | NO | 0 | 0 | |
| 19. | | Dispositivo di acquisizione video a punti | SCUOLA SUPERIOR | ITFI20120133 | 2013-12-26 | 3 | 1 | 0 | 0 | NONE | 0 | 0.74 | NO | 0 | 0 | |
| 20. | | Elemento bioelastico per cardiomiopatia c | CONSIGLIO NAZIONALE DELLE RICERCHE | ITFI20000167 | 2000-07-24 | 17 | 1 | 0 | 0 | NONE | 0 | 0 | NO | 0 | 0 | |
| 21. | | Nanosfere polimeriche e relativo utilizzo, | UNIVERSITA DEGLI STUDI DI PADOVA | ITBO970641 | 1997-10-28 | 19 | 1 | 0 | 0 | NONE | 0 | 0 | NO | 0 | 0 | |
| 22. | | Ligando dei recettori melanocortinici cent | UNIVERSITY OF CALIFORNIA | ITTO20110147 | 2012-08-22 | 5 | 1 | 0 | 0 | NONE | 0 | 0 | NO | 0 | 0 | |
| 23. | | Anti-ssrp-1 monoclonal antibodies and h | CONSIGLIO NAZIONALE DELLE RICERCHE | WO03011910 | 2001-07-31 | 16 | 1 | 0 | 0 | NONE | 0 | 0 | NO | 0 | 0 | 1 |
| 24. | | Rumina artificiale computerizzata. | DIPARTIMENTO DI SCIENZE | ITTO970848 | 1997-12-29 | 19 | 1 | 0 | 0 | NONE | 0 | 0 | NO | 0 | 0 | |
| 25. | | Dispositivo robotico per la riabilitazione d | SCUOLA SUPERIOR | ITFI20110231 | 2013-04-22 | 4 | 1 | 0 | 0 | NONE | 0 | 0 | NO | 0 | 0 | |

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IP stakeholders in all their
IP activities

**Thank you for
your interest!**

