





Data mining Simplified For Free Access visit: www.xtractor.in



# DID YOU KNOW THAT YOU COULD DO ALL THIS AND MUCH MORE WITH XTractor

# **ABSOLUTELY FREE?**

# -----XTractor™ Features-----

## Register for free at: www.xtractor.in

1.0

Version

| Operating systems                         | WIN/MAC   |
|---|---|
| Free access                               | Yes   |
| Installation Required                     | No (Web based system)   |
| Best Viewed in                            | Browsers Mozilla Firefox 1.5+ and in 1024*768 resolution, IE 7.0+,<br>Sarfari 3.1 |
| Program the same for all platforms        | Yes   |
| Access Policy                             |   |
| Access anytime<br>Anywhere                | Yes   |
| Network building                          | Yes   |
| Sharing data with<br>friends & colleagues | Yes (Unlimited)   |
| Queries and Keywords                      |   |
| Number of Queries<br>allowed              | 5 (Maximum)   |
| Number of Keywords<br>allowed             | 10 (Maximum)  |
| Alert updates                             | Weekly/ fortnightly/monthly   |
|   |   |
| Database statistics                       |   |
| Number of facts with<br>Proteins          | 24068   |
| Number of facts with                      | 12434   |





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| Number 1727   of facts with Drugs 1727   Number of facts with<br>Biological Process 2773   Daily updates on an<br>average 600   Number of<br>Relationships 12420   Total facts 24273   Regular stats for user<br>queries on home<br>page Yes   Managing Data & Query Options   Associated entities Yes (Check the correlations across entities)   Pie Chart Display Yes   Cag cloud Yes (Identifies high frequency entities)   Search with in results Yes (Searches any entity)   Saving results Yes   Organize Data Yes (Uses Boolean operators)<br>Instant filter option   Instant filter option for<br>entities Yes   Emailing chosen<br>abstract to friend Yes   Sharing of database<br>via www? Yes   Multiple, simultaneous<br>database users Yes   Add tags Yes   Collaborate Yes   Sharing of factoses Yes  | Diseases                              |   |
|---|---------------------------------------|---|
| of facts with Drugs 2773   Number of facts with<br>Biological Process 2773   Daily updates on an<br>average 600   Number of<br>Relationships 12420   Tatal facts 24273   Regular stats for user<br>queries on home 24273   Managing Data & Query Options 400   Associated entifies Yes (Check the correlations across entifies)   Pie Chart Display Yes   Saving results Yes (Searches any entify)   Saving results Yes (Query results can be mixed and customized data files<br>created)   Add queries Yes (Uses Boolean operators)   Instant filter option Yes   Highlight option for<br>entities Yes   Emailing chosen<br>abstract to friend Yes   Sharing of database<br>via www? Yes   Multiple, simultaneous<br>database users Yes   Collaborate Yes   Collaborate Yes  |                                       | 1707  |
| Biological Process 2/73   Daily updates on an average 600   Number of Relationships 12420   Total facts 24273   Regular stats for user queries on home page Yes   Managing Data & Query Options   Associated entities Yes (Check the correlations across entities)   Pie Chart Display Yes   Tag cloud Yes (Identifies high frequency entities)   Search with in results Yes (Searches any entity)   Saving results Yes   Organize Data Yes (Query results can be mixed and customized data files created)   Add queries Yes (Uses Boolean operators)   Instant filter option Yes   Highlight option for entities Yes   Emailing chosen abstract to friend Yes   Sharing of database via www? Yes   Multiple, simultaneous database users Yes   Add tags Yes   Collaborate Yes   Collaborate Yes  | of facts with Drugs                   | 1/2/  |
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| database usersresAdd tagsYesCollaborateYesInvite a friendYes  | -                                     | Yes   |
| Collaborate Yes<br>Invite a friend Yes  |                                       | Yes   |
| Invite a friend Yes   | Add tags                              | Yes   |
|   | Collaborate                           | Yes   |
| Data generation   | Invite a friend                       | Yes   |
|   | Data generation                       |   |



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| 100% manually<br>validated  | Yes   |
|---|---|
| Sentences<br>categorised to<br>respective classes                                 | Yes   |
| Highly accurate data  | Yes   |
| Annotated sentences<br>and abstracts from<br>PUBMED get stored in<br>user profile | Yes   |
| Data customization  |   |
| Change queries<br>multiple times  | Unlimited   |
| Annotation Out Linking  |   |
| SwissProt   | Yes   |
| Drug bank   | Yes   |
| MeSH  | Yes   |
| Gene Ontology   | Yes   |
| PUBMED  | Yes   |
| Support   |   |
| Reference Guides/<br>Manuals  | Yes (Plus Online Help; Product highlights)                |
| Tutorials   | Yes (Case studies; Quick movie)                           |
| Email or Telephone<br>Support   | Yes (Immediate) (Mail :xtractor@molecularconnections.com) |
| Training  | Yes (Web-based site tour)                                 |
| Demo  | Yes   |
|   |   |

## **UPCOMING FEATURES OF XTRACTOR!**

Export Options

Integrating XTractor data with existing user applications through web services

Exporting data to or in XML format

Creating customized database at user's personal desktop

Semantic Search

Contology based advanced search engine that enables conducting complex queries across multiple layers of ontologies



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**Bibliographic search** 

Conducting bibliography-based searches; e.g.: Search by author, institution etc.

**Concept Linking** 

Feature that enables making assumptions by linking data from multiple abstracts, and discovering facts, hitherto unpublished.

**Standard Search** 

Searching through data using the Molecular Connections set of "standard keywords" to get better results

Archived Data Search

 $\Box$ Searching all the data that has been archived throughout XTractor.

For further details, visit: www.xtractor.in







Inferences from XTractor on APOE and its relations to Atherosclerosis

### Purpose of the Analysis:

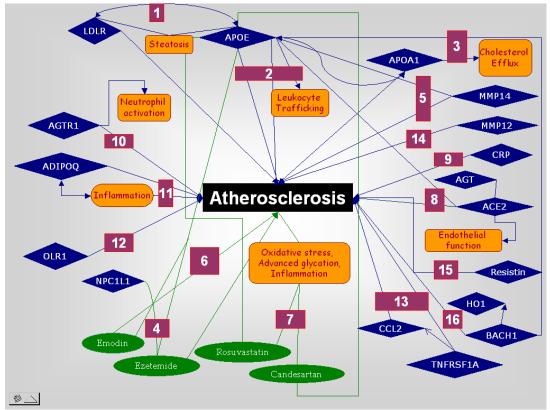
- Study the biology around APOE in terms of interacting and influencing proteins
- Relationships between APOE and Atherosclerosis
- Process that play a major role in the disease condition
- Atherosclerotic drugs and their relations to APOE

It took less than 30 minutes to make the below mentioned inferences from XTractor.

Compared to the conventional Database systems we provide you with the **flexibility** to store/save, display and tag the categorized facts based on your own preference.

Customize the data that you require, instead of having to search through multiple complex databases.

Stay current with the **latest manually annotated relationships** across proteins, drug, biological processes and diseases as they get published



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- Knockouts and mutational studies
- Protein- Disease co-relationships
- Possible Biological Process Effects
- Understanding Diseased Pathways
- And much more... for FREE!!!
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**Data References for the Map above:** (Each of these sentences was summarized from multiple handpicked sentences in XTractor)

- APOE clearance is directed thro LDLR. Absence of LDLR and APOE Leads to steatosis with severe inflammation characterized by infiltration of macrophages and increased nuclear factor kappaB (NF-kappaB) signaling
- APOE plays a role in leukocyte trafficking in atherosclerosis. Apolipoprotein E (ApoE) is an important component of plasma lipoprotein with anti-atherosclerosis function
- APOA1 increases cholesterol efflux and reduces atherosclerosis in co-operation with APOE via up regulation of ABCA1 and ABCG1. Targeting APOA1-APOE interaction could form the basis of cell based therapy for atherosclerosis
- Ezetemide prevents atherosclerosis by decreasing plasma cholesterol levels in absence of APOE and NPC1L1
- MMP14 promotes the development of hyperlipidemia and atherosclerosis by degrading APOE
- Emodin stabilizes atherosclerotic plaques in aortic root via its anti-inflammatory action in absence of APOE
- Rosuvastatin and Candesartan attenuate atherosclerosis in absence of APOE via effects on advanced glycation, oxidative stress and inflammation
- ACE2 improves endothelial function in AGT dependent manner in absence of APOE via attenuation of NADPHox-induced ROS production. ACE2 enhances plaque stability and reduces atherosclerosis





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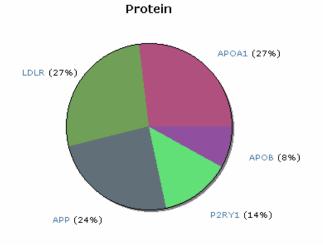
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- CRP levels increase in arterial intima during atherosclerosis. Targeting CRP by CRP-Pet complex is effective approach to capture native LDL to prevent development of atherosclerosis
- Transgenic AGTR1 improves atherosclerosis by normalization of dysregulated neutrophil activation
- High ADIPOQ is inversely related to systemic inflammation and is protective factor in atherogenesis
- Lectin-like oxidized low-density lipoprotein receptor-1 (LOX-1) plays an important role in atherosclerosis and is found to be an endothelial cell receptor for AGEs.
- p55 TNFR contributes to development of atherosclerosis by enhancing lesional foam cell formation and by promoting the expression of MCP-1
- MMP12 accelerates the initiation of atherosclerosis and stimulates progression of fatty streaks to fibrous plaques in transgenic rabbits
- Resistin in serum is associated with high risk in patients with atherosclerosis
- Disruption of Bach1 gene in Apo E KO mice caused inhibition of atherosclerosis through up regulation of HO-1

# How did we arrive at this analysis in 30 minutes?

## <u>Step 1:</u>

Instant Analysis: XTractor gives instant top statistics for your queried entity, here APOE

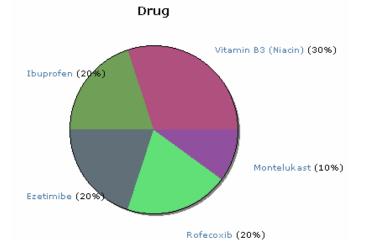


Top 5 Proteins associated with APOE %s indicate the number of manually handpicked annotated sentences for each combination EG: 27% of the sentences in XTractor talk about APOE and APOA1

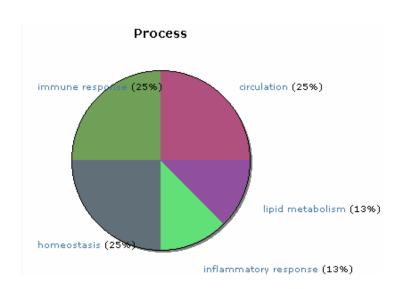


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Top 5 Drugs associated with APOE %s indicate the number of manually handpicked annotated sentences for each combination of drug and protein



Top 5 Biological Processes associated with APOE %s indicate the number of manually handpicked annotated sentences for each combination of processes and protein





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Step 2:

## Tabular Data Representation:

- Analyze and Refine by going through the Associated entities map for APOE,
- Click on each of the entities below displays the annotated sentences

| iery ( Total queries : 1 ) | Query Details  |  | C Statistics  |   |  |   |
|----------------------------|--|--|---|---|--|---|
| APOE (175)                 | Protein  | Disease  | Drug  | Process   | Key<br>Relationships   | Categories  |
|                            | APOA1(10)<br>APP(9)<br>P2RY1(5)<br>APOB(3)<br>FGB(3)<br>APOA5(3)<br>CETP(3)<br>PSEN1(3)<br>VCAM1(3)<br>WTHFR(3)<br>PSEN2(2)<br>AGER(2)<br>PTGS1(2)<br>MMP14(2) | Atherosclerosis(32)<br>Alzheimer Disease(26)<br>Dementia(5)<br>Wounds and Injuries(5)<br>Amyotrophic Lateral<br>Sclerosis(5)<br>Fatty Liver(4)<br>Tuberculosis(4)<br>Coronary Artery<br>Disease(3)<br>Hypertriglyceridemia(3)<br>Down Syndrome(3)<br>Confusion(3)<br>Hypercholesterolemia(3)<br>Obesity(3)<br>Lewy Body Disease(3) | Vitamin B3<br>(Niacin)(3)<br>(lauprofen(2)<br>Ezetimibe(2)<br>Rofecoxib(2)<br>Rofecoxib(2)<br>Rosuvastatin(1)<br>Candesartan(1)<br>Pravastatin(1) | circulation(2)<br>immune<br>response(2)<br>homeostasis(2)<br>inflammatory<br>response(1)<br>lipid metabolism(1)<br>cell migration(1)<br>oeramide<br>biosynthesis(1) | Associated(17)<br>Reduced(13)<br>Expression(7)<br>Activity(4)<br>Trafficking(3)<br>Suppression(3)<br>Increase(3)<br>Reduce(3)<br>Candidate(3)<br>Inhibitor(3)<br>Enhancement(2)<br>Attenuated(2)<br>Phosphorylation(2) | Gene- Disease(102)<br>Gene-<br>KnockoutKnockdown(75)<br>Gene- Gene(22)<br>Gene- Mutation(13)<br>Drug- Disease(6)<br>Gene- Drug(5)<br>Gene- Process(3)<br>Biomarker- Disease(1)<br>Gene- Pathways(1) |

#### Sentence Display Panel:

- Annotated entities highlighted and linked to Public databases.
- Each sentence is also categorized into Gene-Drug, Gene- Marker or other relationships manually
- Also select the sentences and save them in folders named as per your preference.

|      | tal pages : 4<br>sentences ) | First     | << Previous | 1 2 3 4 Next >>                                    | Last  |
|------|------------------------------|-----------|-------------|--|---|
| 8364 |                              |           |             | odin can stabilize the<br>robably due to its anti- |   |
|      |                              | Entity    | Abstract Qu | iery and Users                                     |   |
| Gene | e Disease                    | Drug      | Processes   | Key<br>Relationships                               | Categories  |
| APOE | Atherosclerosi:              | lbuprofen | -           | Stabilize  | Gene- Disease<br>Drug- Disease<br>Gene-<br>Knockout/Knockdown |
|      |                              |           |             |  |   |

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<u>Step 3:</u>

## Search within results:

- Search your collection of sentences at ease
- Refine and filter your required facts faster

|                          |   |   |  | Home  | Create Queries   | Queries                        | Explore | Search   | Profile |
|--------------------------|---|---|--|---|--|--------------------------------|---------|----------|---------|
| arch Query               |   |   |  |   |  |                                |         |          |         |
| ntity type:              | Protein   | (   | ~  |   |  |                                |         |          |         |
| mbol :                   | APOA1   |   |  |   |  |                                |         |          |         |
|                          | Search  |   |  |   |  |                                |         |          |         |
|                          |   |   |  |   |  |                                |         |          |         |
|                          |   |   |  |   |  |                                |         |          |         |
| Total page<br>( 16 sente |   | First 1 2   | Next >>  | Last  |  |                                |         | ₽        |         |
| Total page               | es:2  |   | Next >>  | Last  |  |                                |         | <b>F</b> |         |
| Total page               | es : 2<br>ences )<br>Studies with differ<br>apolipoprotein E  | First 1 2<br>ent designs du<br>and A1 and ch<br>e effect of pha                                   | escribe that f                                 | for instance<br>pha-hydroxy                   | genes (and their va<br>vlase may be impo<br>of <b>dyslipidemia</b> and | rtant genetic                  |         |          |         |
| Total page<br>( 16 sente | es : 2<br>ences )<br>Studies with differ<br>apolipoprotein E<br>determinants of th<br>individualisation ( | First 1 2<br>ent designs du<br>and A1 and ch<br>e effect of pha<br>f treatment.<br>petween apolij | escribe that f<br>olesterol 7al<br>rmacologica | for instance<br>pha-hydroxy<br>al treatment ( | ylase may be impo  | rtant genetic<br>I play a role | in the  | Ē        |         |

Stay Current and Cut your Analysis Time at Zero Cost!

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# For support and Feedback write to: xtractor@molecularconnections.com

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