Herramientas de IA para la búsqueda bibliográfica

Dr. Eduardo Fuentes
CEO
WriteWise

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Co-founder & CEO WriteWise

Ph.D. Biotecnologia, UNAB

PostDoc 1. University of St. Andrews, UK

PostDoc 2. University of Aberdeen, UK

Postdoc 3. University of Gothenburg, Sweden

Certificado en:

Stanford University, USA – *Writing in the Sciences*

Harvard University, USA – *Rhetoric and Persuasive Writing*

University of California, Berkeley, USA – *Academic Writing*

University of Cambridge, UK – *Accessible Academic Writing*

Vanderbilt University, USA – *Prompt Engineering*

- 6 años de experiencia en el uso de IA Generativa, Agentes de IA, Prompt Engeneering
- 21 artículos de investigación en revistas Q1 y Q2 WOS
- > 1170 citaciones
- 15 h-index
- 16 proyectos adjudicados
- > 6.000 investigadores capacitados

PROGRAMA DEL CURSO

Módulo 1: Búsqueda semántica de literatura.
Realizar búsquedas efectivas de literatura con IA con **SciSpace**

Módulo 2: Lectura y toma de notas
Facilitar la lectura detallada de artículos académicos y la toma de notas eficiente con **SciSpace**.

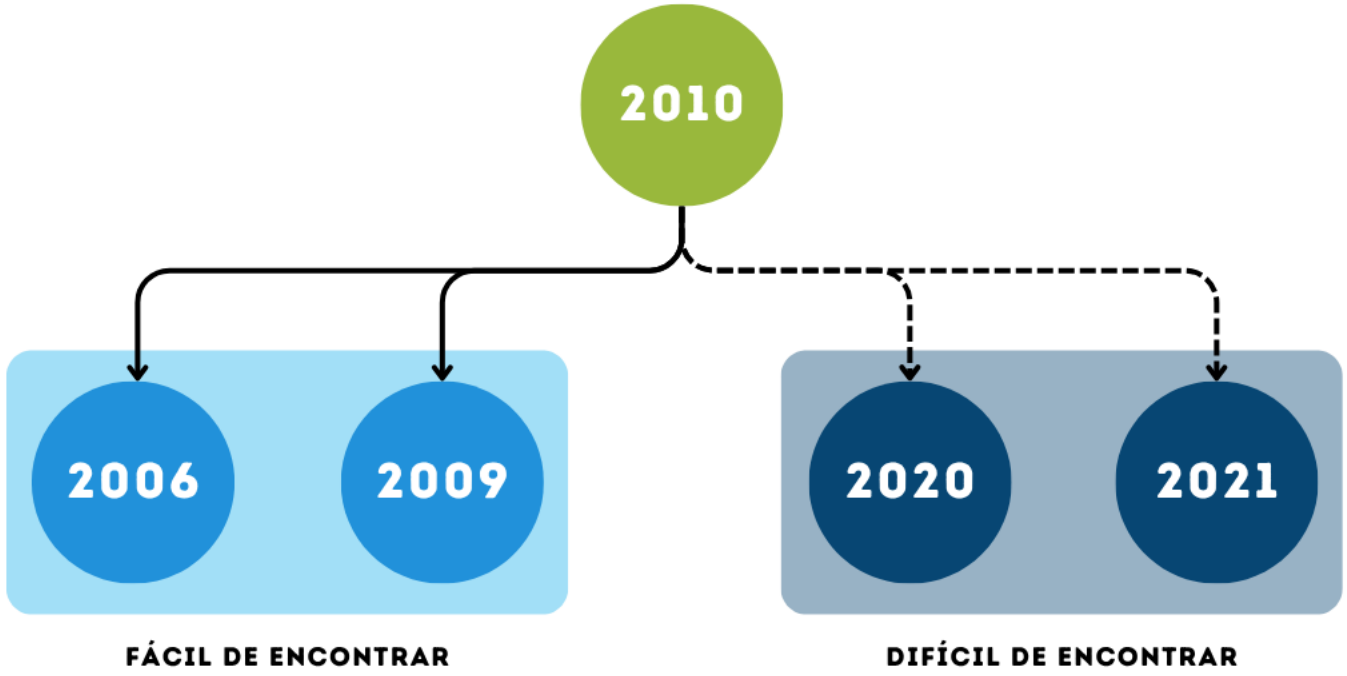
Módulo 1 y 2: Otras herramientas
Búsqueda de literatura y toma de notas con otras herramientas: **Consensus**, **Elicit**, **Scite**,

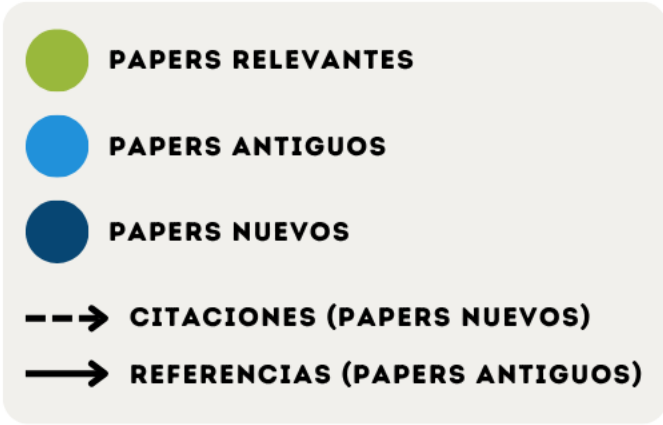
PROGRAMA DEL CURSO

Módulo 3: Mapeo de literatura y red de citaciones
Organizar y visualizar grandes volúmenes de literatura, identificando relaciones: **Litmaps, Research Rabbit**, **Connected Papers**,

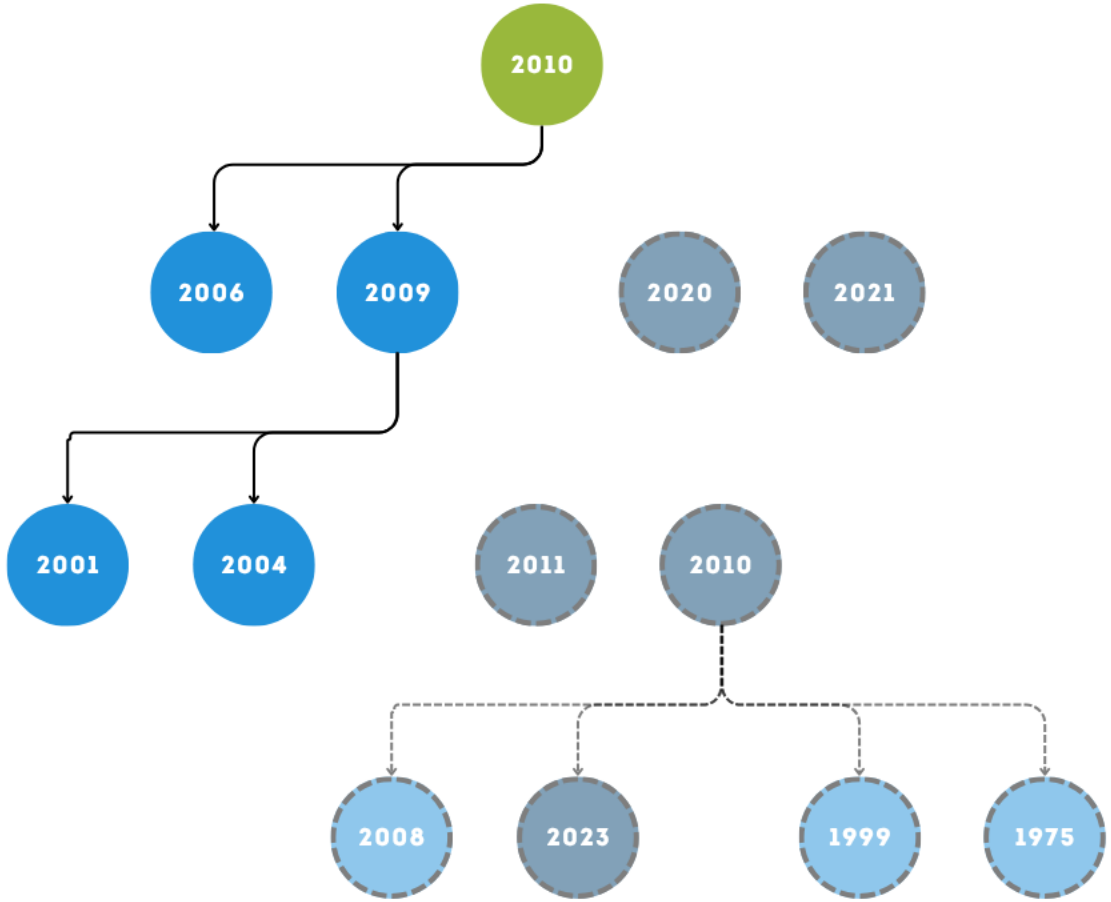
Módulo 4: Redacción basada en notas
Redactar un primer borrador basado en síntesis con ChatGPT.

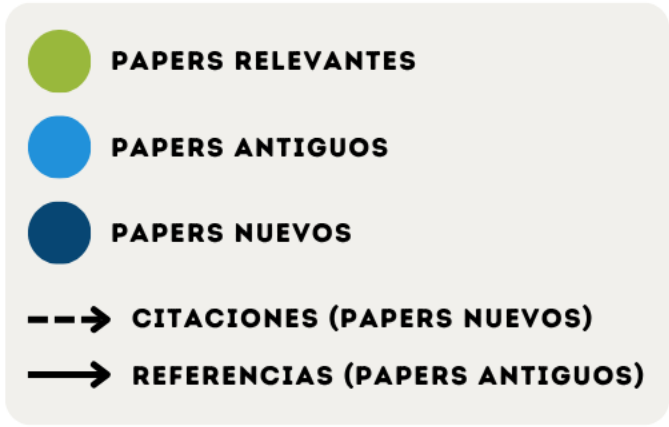
Referencias y Citas



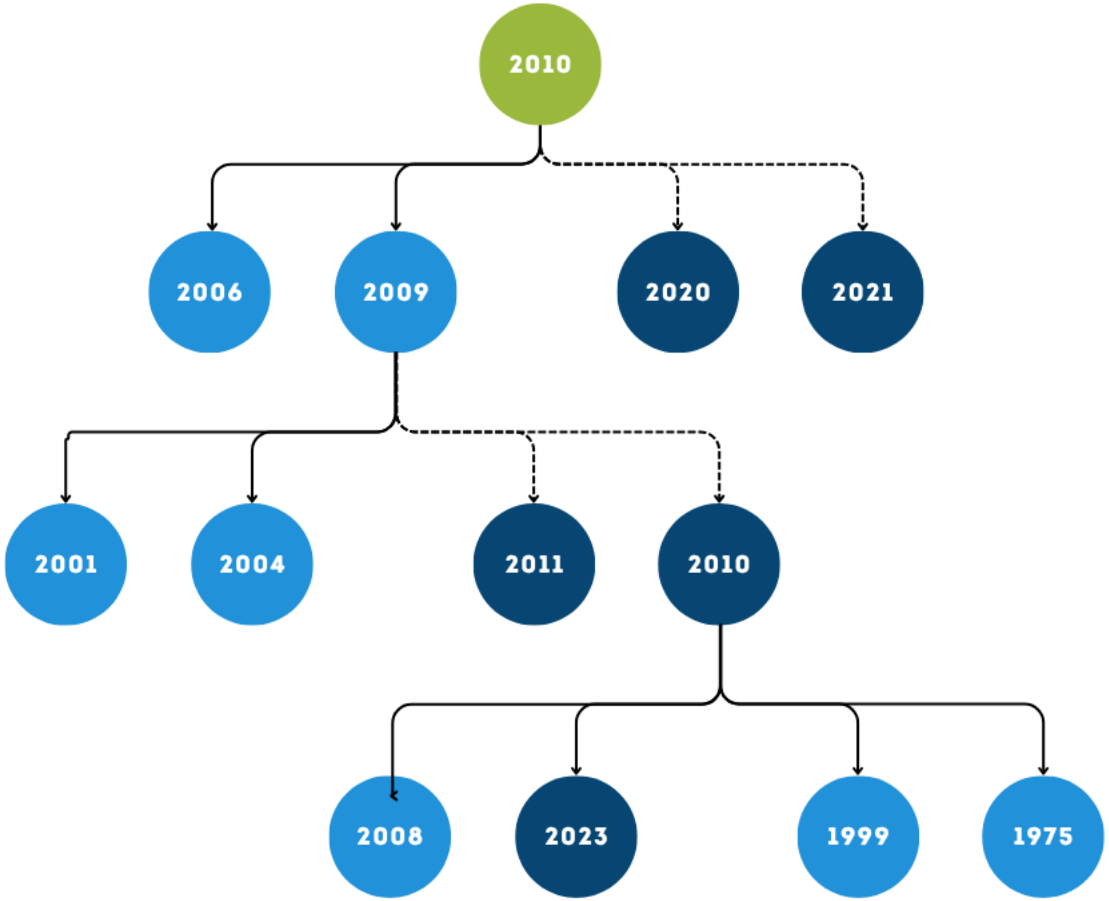


Forma antigua: Reunir artículos porque es difícil encontrar las citas.





Explorando la Red Conectada



PAPERS RELEVANTES

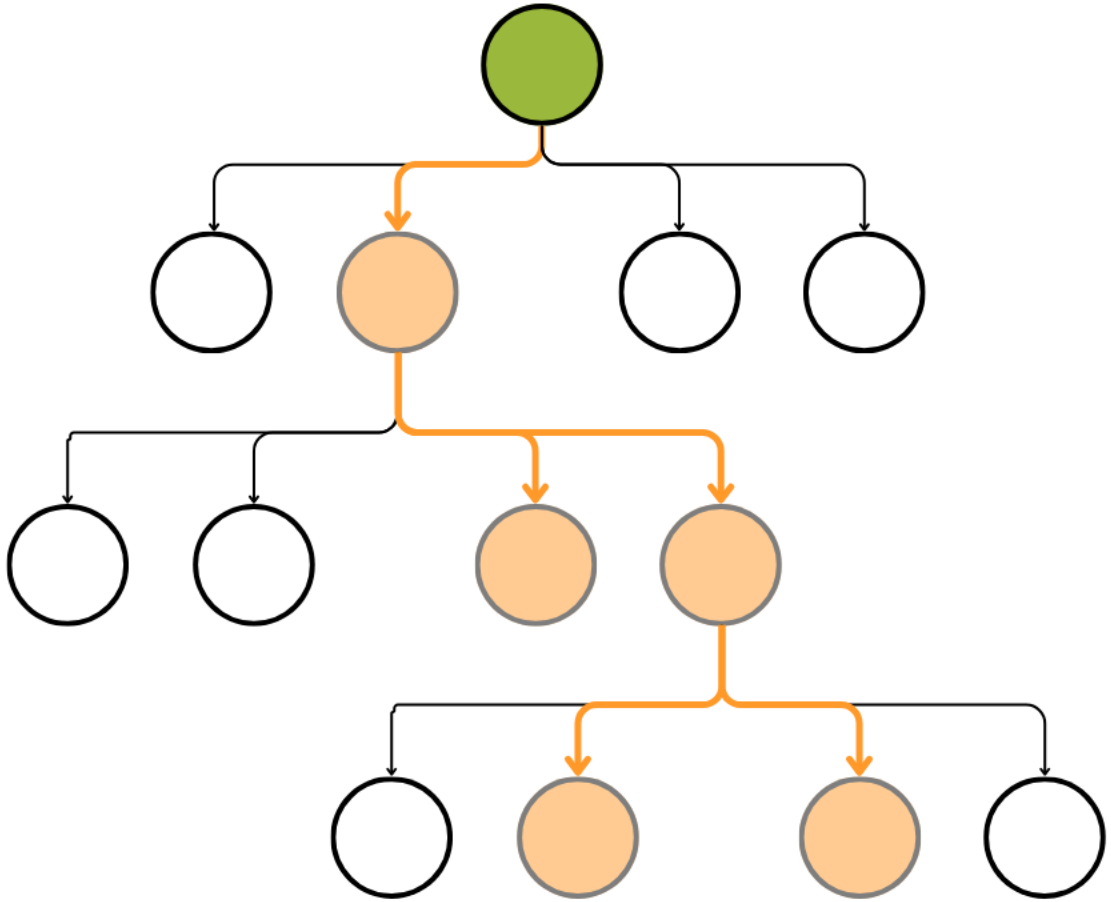
PAPERS ANTIGUOS

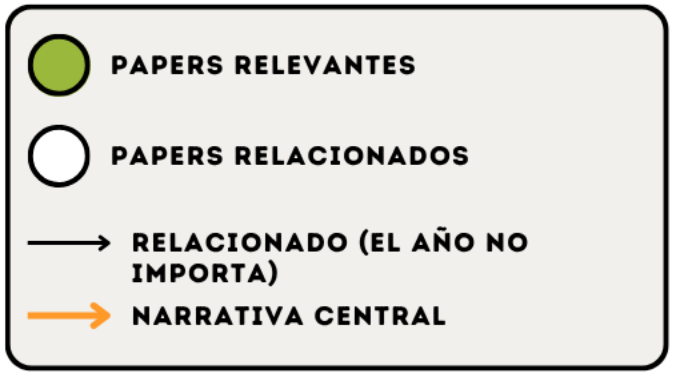
PAPERS NUEVOS

CITACIONES (PAPERS NUEVOS)

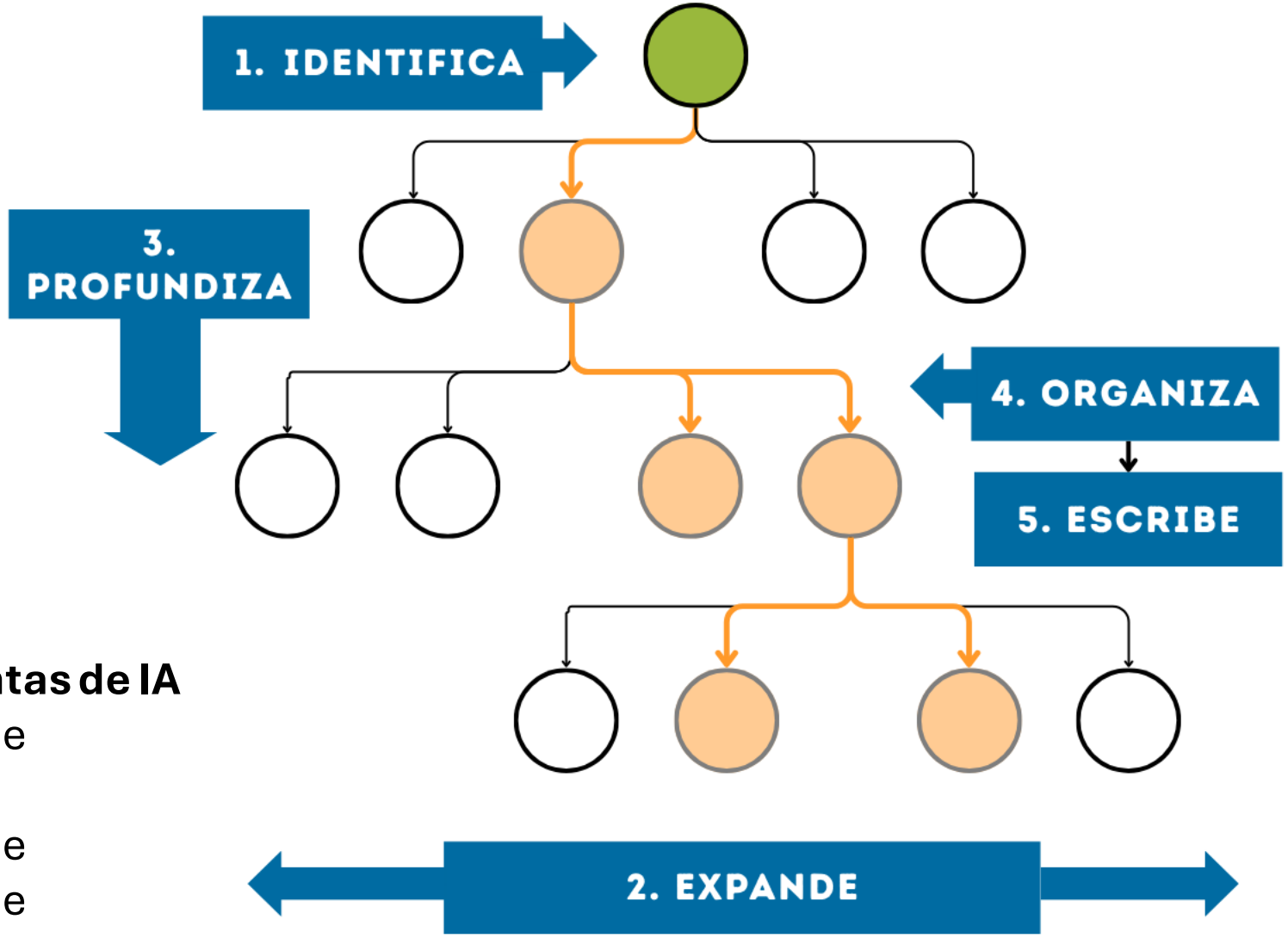
REFERENCIAS (PAPERS ANTIGUOS)

Nueva forma: Seguir una narrativa de artículos relacionados.



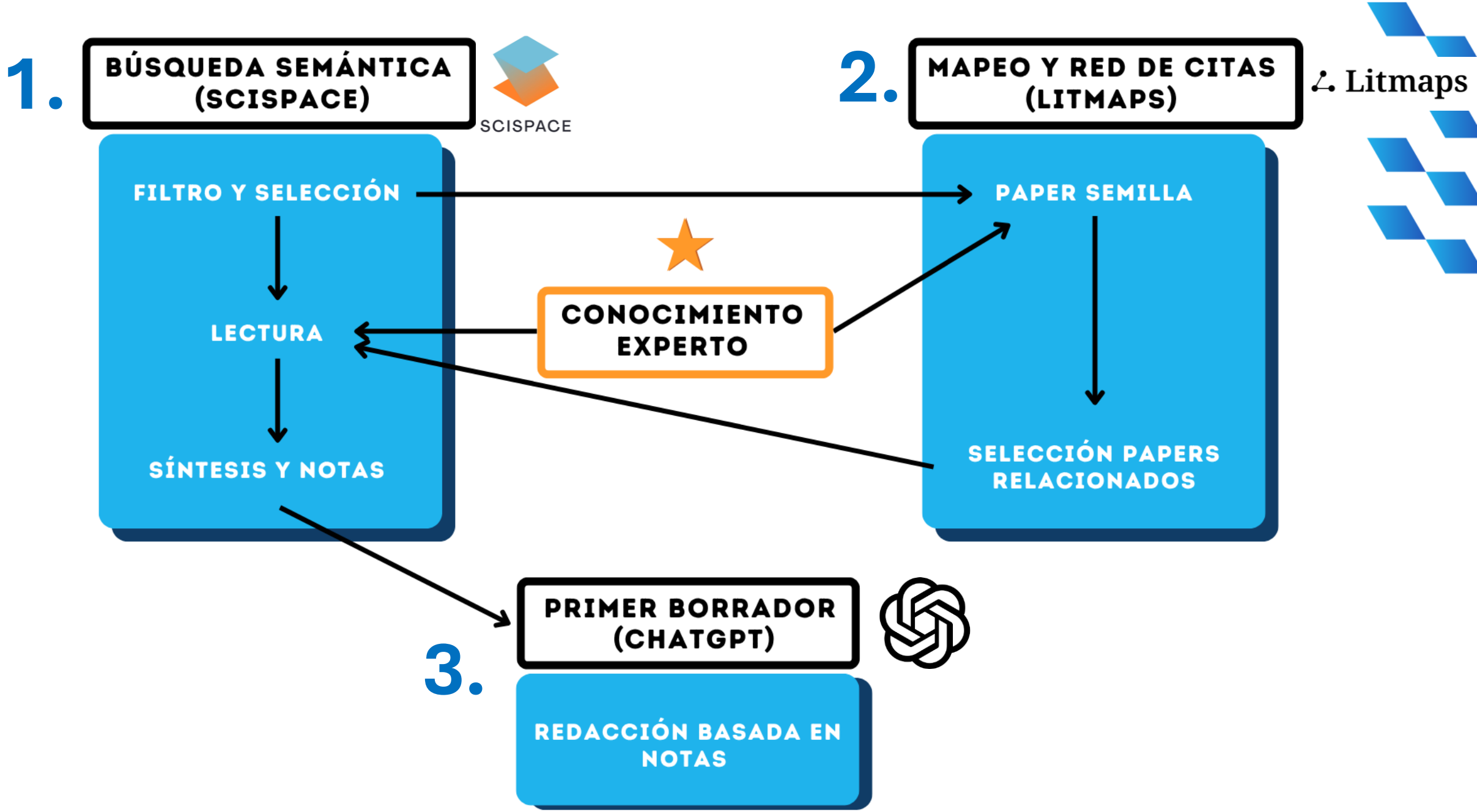


Qué herramientas necesitamos y por qué.



Herramientas de IA

1. SciSpace
2. Litmaps
3. SciSpace
4. SciSpace
5. ChatGPT


1.
BÚSQUEDA SEMÁNTICA (SCISPACE)
SCISPACE
2.
MAPEO Y RED DE CITAS (LITMAPS)
Litmaps
FILTRO Y SELECCIÓN
LECTURA
SÍNTESIS Y NOTAS
CONOCIMIENTO EXPERTO
PAPER SEMILLA
SELECCIÓN PAPERS RELACIONADOS
3.
PRIMER BORRADOR (CHATGPT)
REDACCIÓN BASADA EN NOTAS

Módulo 1: Búsqueda Semántica de literatura

SCISPACE

Pricing | My Library

The Fastest Research Platform Ever

All-in-one AI tools for students and researchers.

Enter your search query

Standard | High Quality | Deep Review

Try searching for: How does climate change impact biodiversity? | Why are aging Covid patients more susceptible to

Introducing Deep-Review - Do systematic literature review in minutes. Know More

Google Scholar

does igf 1 increase muscle growth in fish?

Articles

About 41,200 results (**0.25** sec)

My profi

Any time
Since 2025
Since 2024
Since 2021
Custom range...

Sort by relevance
Sort by date

Any type
Review articles

include patents
include citations

Create alert

Regulation of skeletal **muscle growth** in **fish** by the **growth** hormone–**insulin-like growth factor** system

[PDF] academia.ed

EN Fuentes, JA Valdés, A Molina… - General and Comparative …, 2013 - Elsevier

… **IGF** binding proteins (IGFBPs) and the contribution of **muscle**-derived versus hepatic-produced **IGF1** on **fish muscle growth** is … the GH-**IGF** system regulating **fish** skeletal **muscle growth** is …

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Abundant **insulin-like growth factor-1** (**IGF-1**) receptor binding in **fish** skeletal **muscle**

M Párrizas, EM Plisetskaya, J Planas… - General and comparative …, 1995 - Elsevier

… Studies on the second messengers for insulin and **IGF-1** (IRS-**1**, MAP2K) in this **fish** model … of insulin and **IGF-1** action, In conclusion, we **can** hypothesize that the role of insulin and **IGF**-i …

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Paradigms of **growth** in **fish**

[PDF] researchgate

TP Mommsen - Comparative biochemistry and physiology part B …, 2001 - Elsevier

… **growth** of the **fish** is minute. The consideration of reducing overall **fish growth** to white **muscle growth can** be … **Fish muscle** contains even higher numbers of **IGF**-I receptors than insulin …

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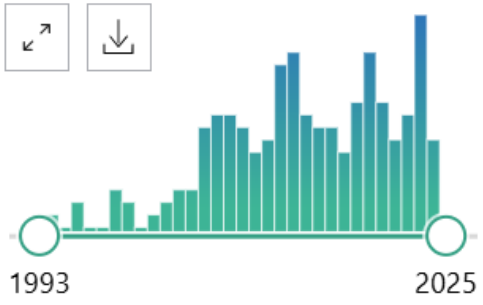
RESULTS BY YEAR



PUBLICATION DATE

- 1 year
- 5 years
- 10 years
- Custom Range

1

Cite

Share

Hyperplasia and cellularity changes in **IGF-1**-overexpressing skeletal **muscle** of crucian carp.

Li D, Lou Q, Zhai G, Peng X, Cheng X, Dai X, Zhuo Z, Shang G, Jin X, Chen X, Han D, He J, Yin Z.

Endocrinology. 2014 Jun;155(6):2199-212. doi: 10.1210/en.2013-1938. Epub 2014 Mar 10.

PMID: 24617525

In stable transgenic germline F1 progenies, a 5-fold **increase** in the level of **IGF-1** in skeletal **muscle** was observed. Evident skeletal **muscle** hyperplasia was observed in the transgenic **fish** through histologic analysis. ...Although the body ...

2

Cite

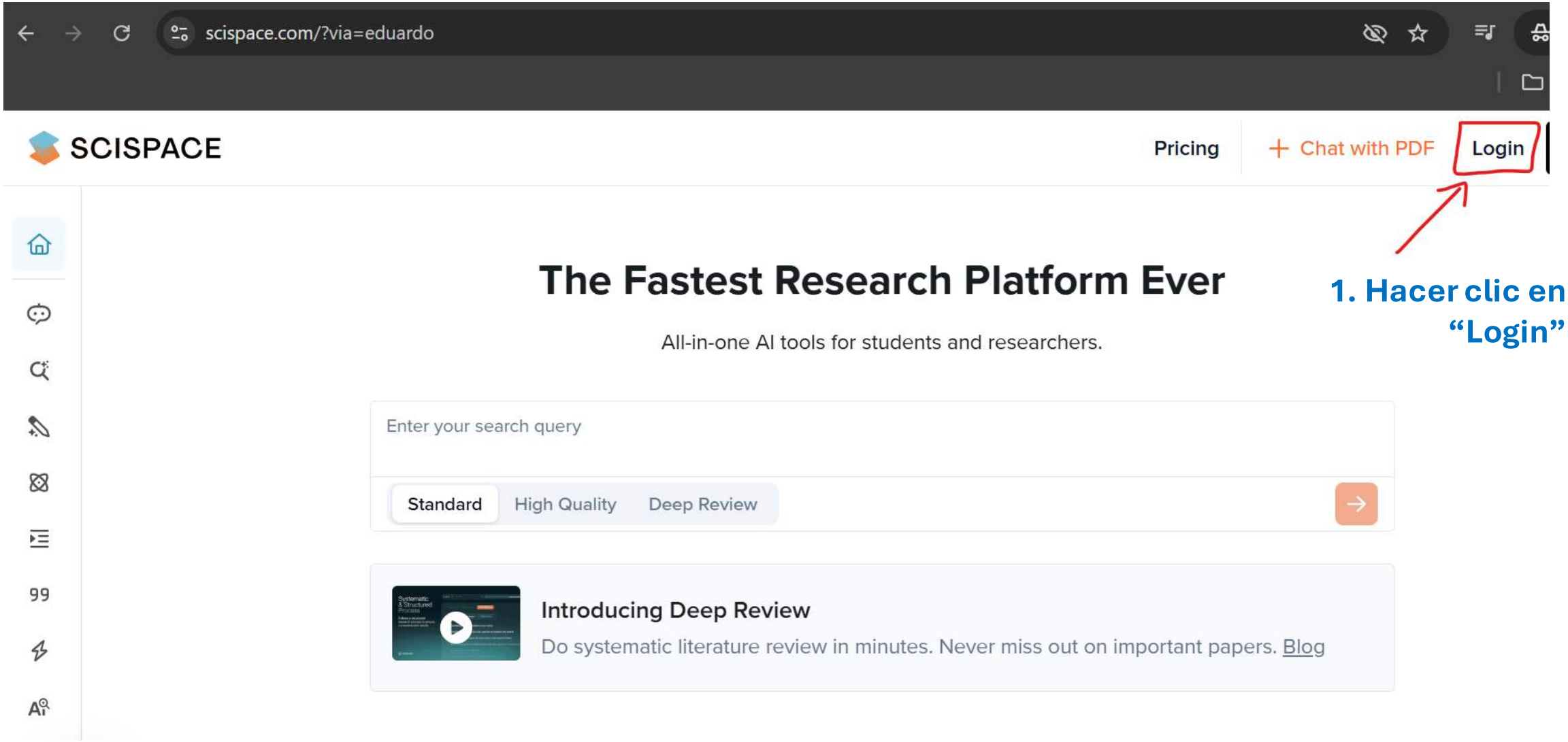
Share

Irisin promotes tilapia **muscle** cell **growth** and amino acid uptake via **IGF-1** signaling.

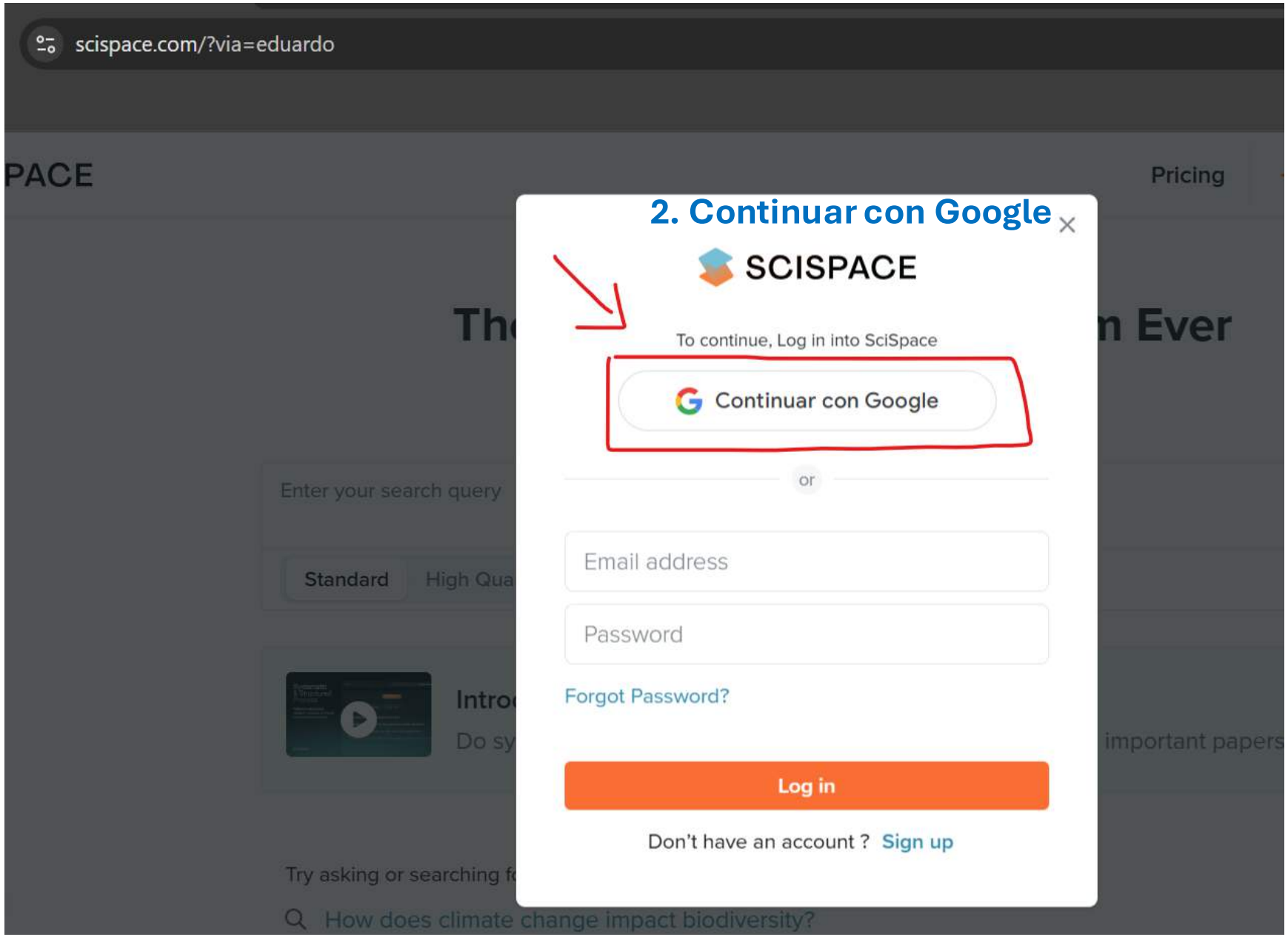
Deng W, Xu M, Dong R, Yan Y, Jiang Q.

J Endocrinol. 2024 Jul 24;262(3):e240122. doi: 10.1530/JOE-24-0122. Print 2024 Sep 1.

PMID: 38954845



https://scispace.com/?via=eduardo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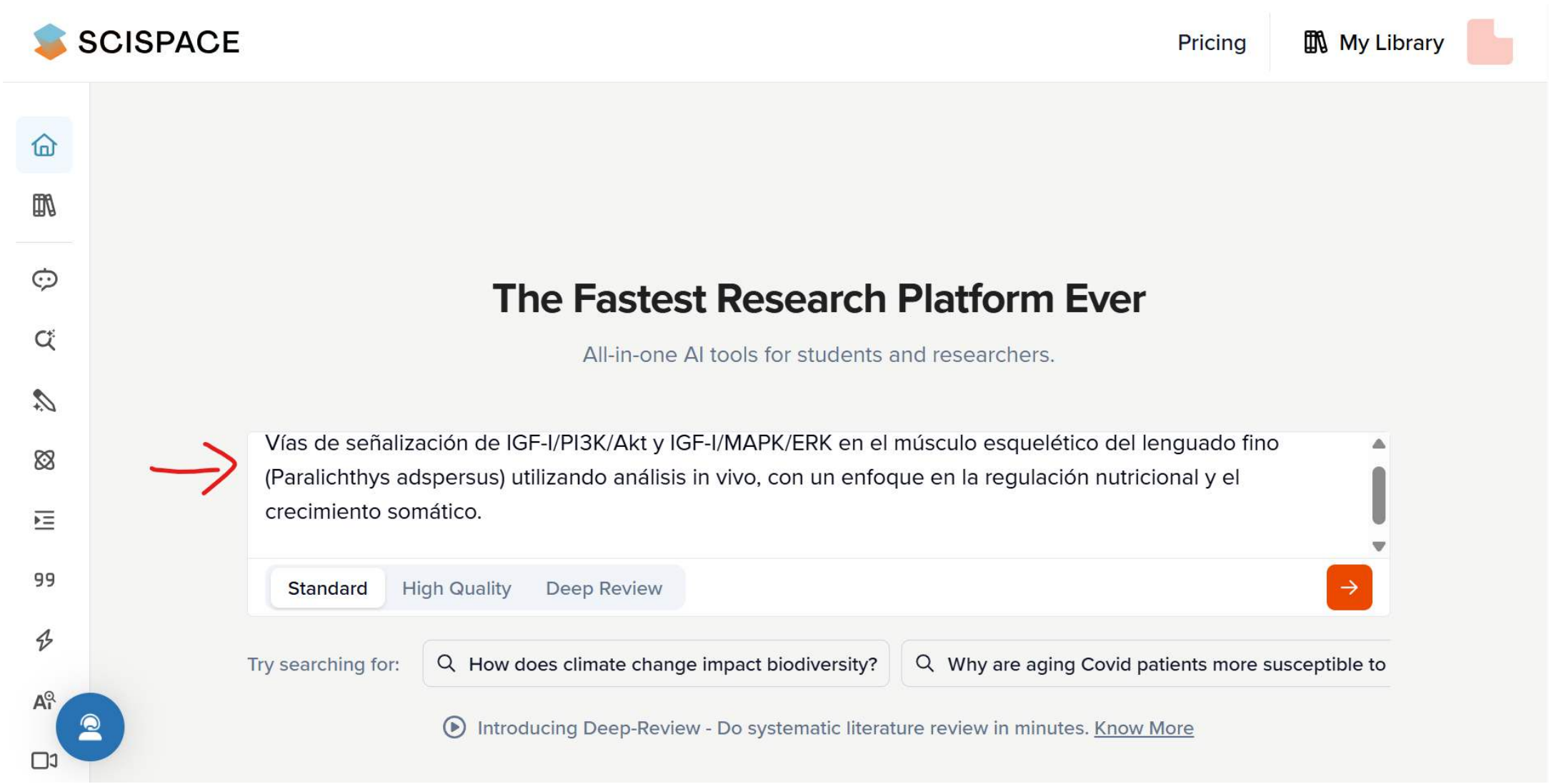
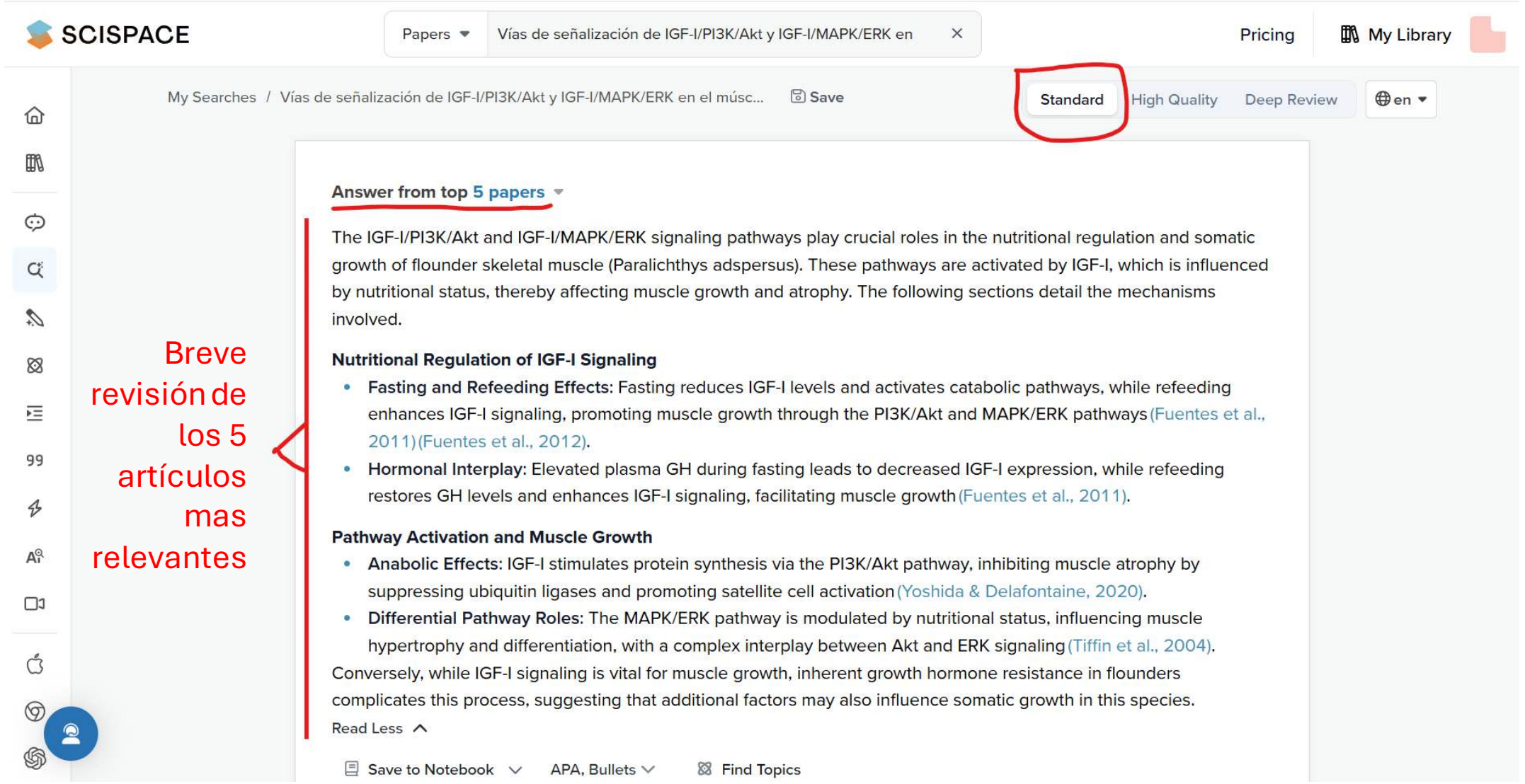
PACE
Pricing
2. Continuar con Google
SCISPACE
To continue, Log in into SciSpace
Continuar con Google
or
Email address
Password
Forgot Password?
Log in
Don't have an account ? Sign up
Enter your search query
Standard
Try asking or searching f
How does climate change impact biodiversity?

Búsqueda de tópicos complejos



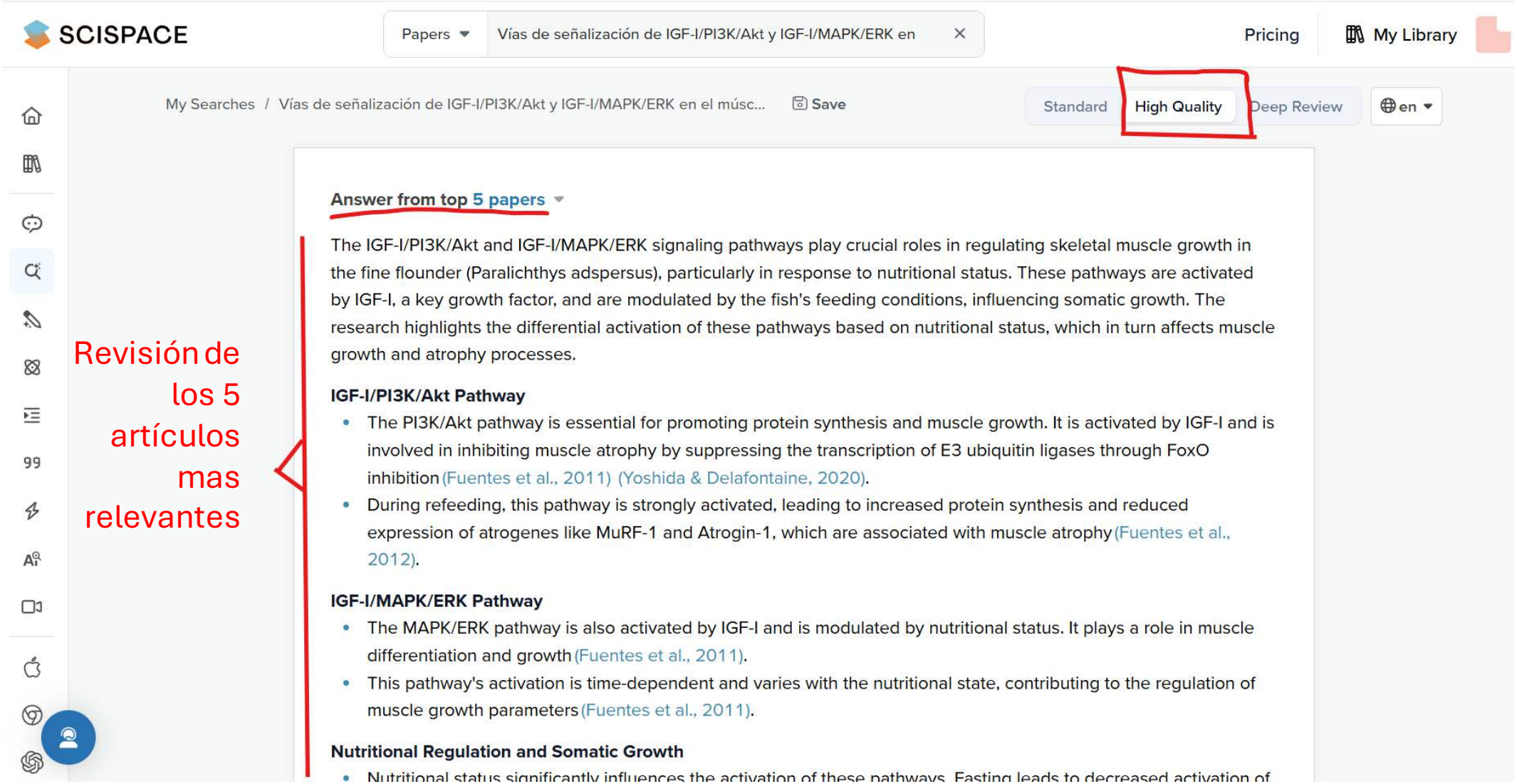
NOTA: Búsqueda en español e ingles funciona igual de bien

3 tipos de búsquedas: búsqueda estándar



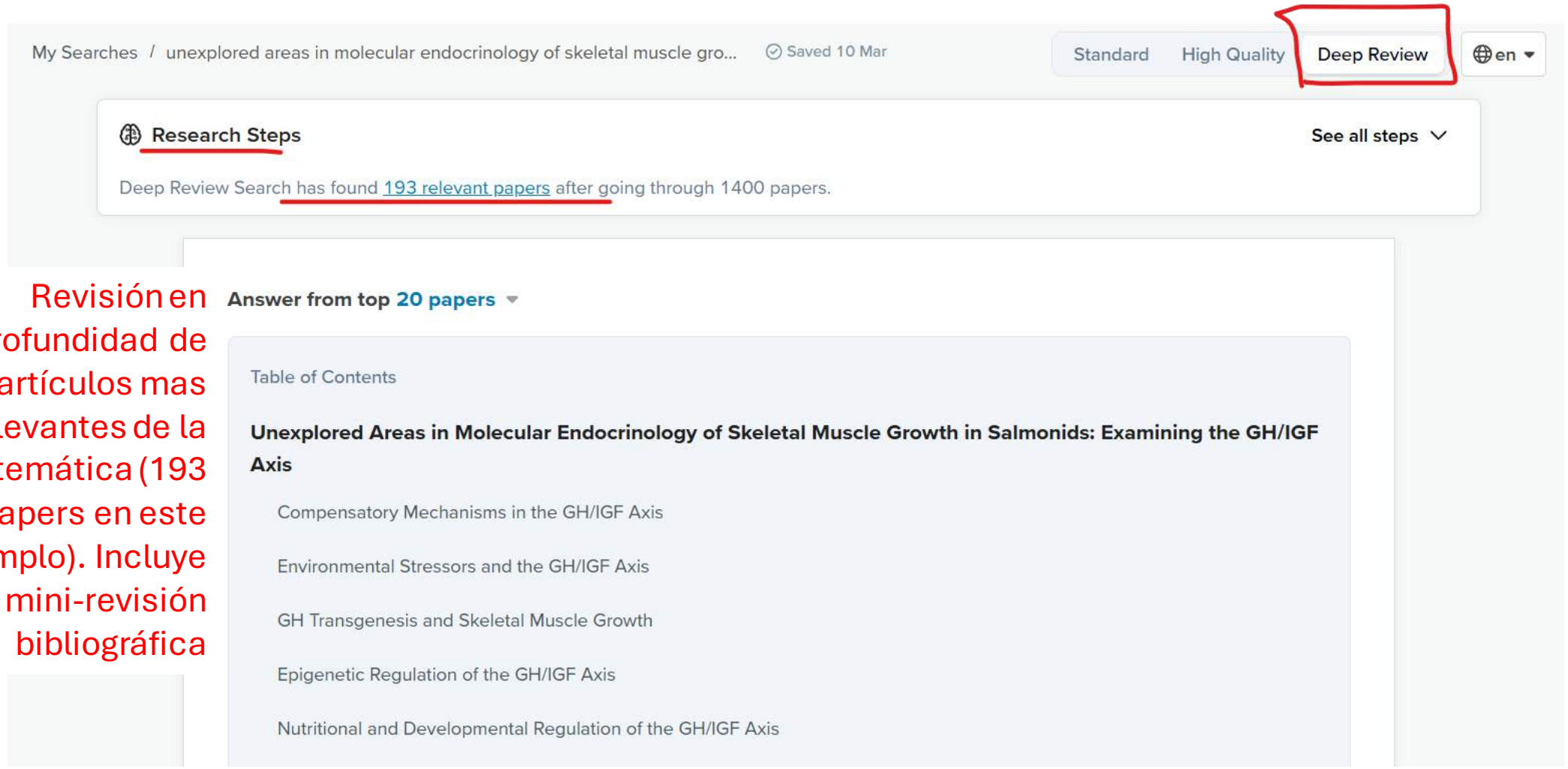
Breve revisión de los 5 artículos mas relevantes

3 tipos de búsquedas: búsqueda de alta calidad



Revisión de los 5 artículos mas relevantes

3 tipos de búsquedas: investigación en profundidad



Revisión en profundidad de los artículos mas relevantes de la temática (193 papers en este ejemplo). Incluye una mini-revisión bibliográfica

3 tipos de búsquedas: investigación en profundidad

Breve revisión bibliografía

Unexplored Areas in Molecular Endocrinology of Skeletal Muscle Growth in Salmonids: Examining the GH/IGF Axis

The growth hormone (GH)/insulin-like growth factor (IGF) axis plays a pivotal role in regulating skeletal muscle growth in salmonids. Despite significant advancements in understanding this system, several areas remain underexplored. This response highlights these gaps, focusing on the molecular endocrinology of skeletal muscle growth, and identifies areas warranting further investigation.

---

1. Compensatory Mechanisms in the GH/IGF Axis

The GH/IGF axis in salmonids exhibits robust compensatory mechanisms to maintain growth under various conditions. For instance, studies have shown that reductions in IGFBP-2b, a key regulator of IGF-I, are offset by increased IGF signaling capacity in muscle, suggesting a complex interplay between circulating and local IGF factors (Cleveland et al., 2020). However, the precise molecular mechanisms underlying these compensatory responses, particularly in skeletal muscle, remain poorly understood.

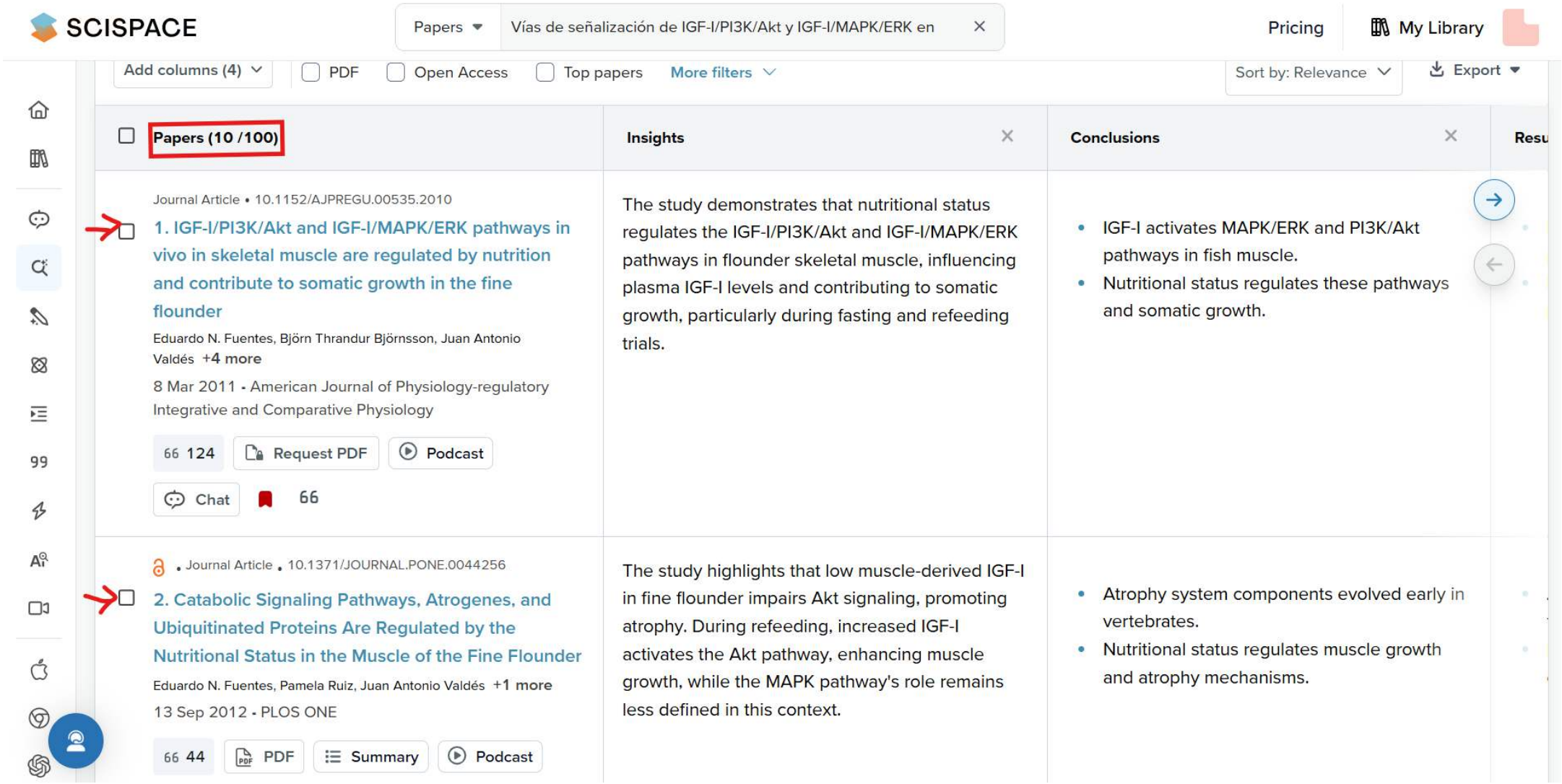
Further research is needed to elucidate how local IGF signaling pathways are modulated in response to systemic changes in IGFBP-2b. Additionally, the role of other IGFBPs, such as IGFBP-1b, in regulating IGF activity under catabolic conditions, such as fasting or environmental stress, warrants further investigation (Izutsu et al., 2023).

---

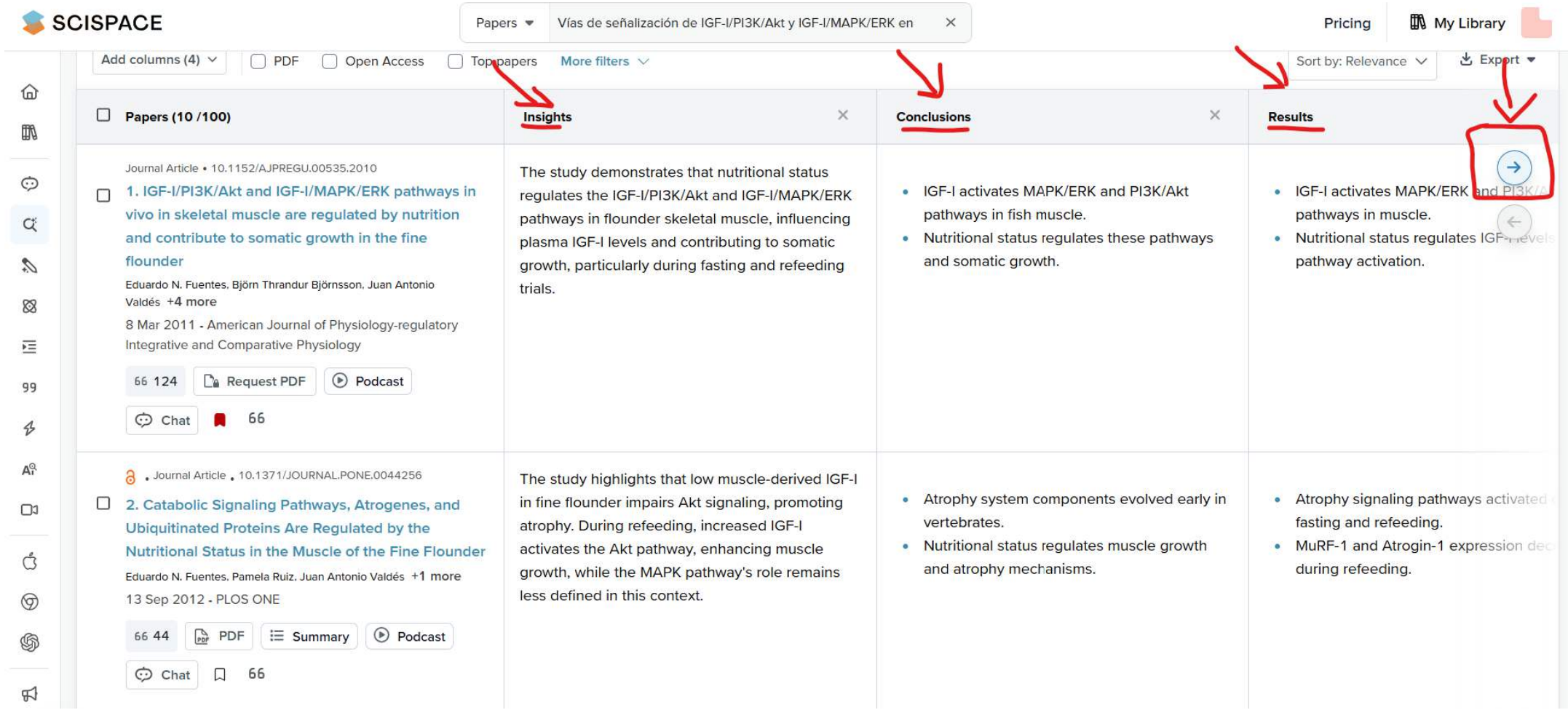
2. Environmental Stressors and the GH/IGF Axis

Environmental stressors, such as temperature and salinity, significantly impact the GH/IGF axis and skeletal muscle growth in salmonids. For example, elevated temperatures reduce muscle growth in Atlantic salmon by downregulating IGF-1 and IGF-2 mRNA levels, while also inducing lipolytic actions of GH (Hevrøy et al., 2013). Similarly, crowding stress and low salinity alter GH/IGF axis gene expression, highlighting the axis's sensitivity to environmental conditions (Zheng et al., 2023).

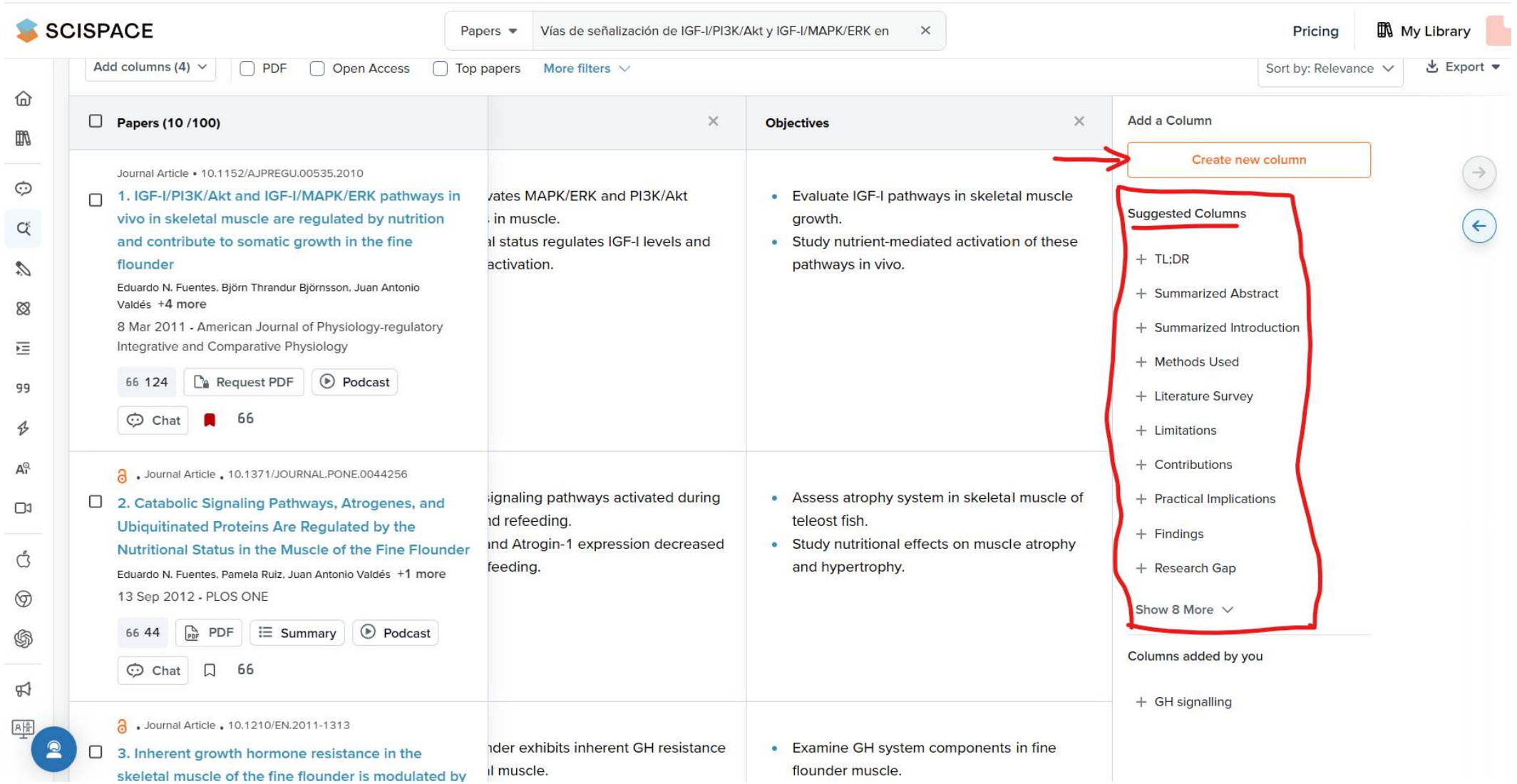
Lista de los 10 papers mas relevantes (de 100)



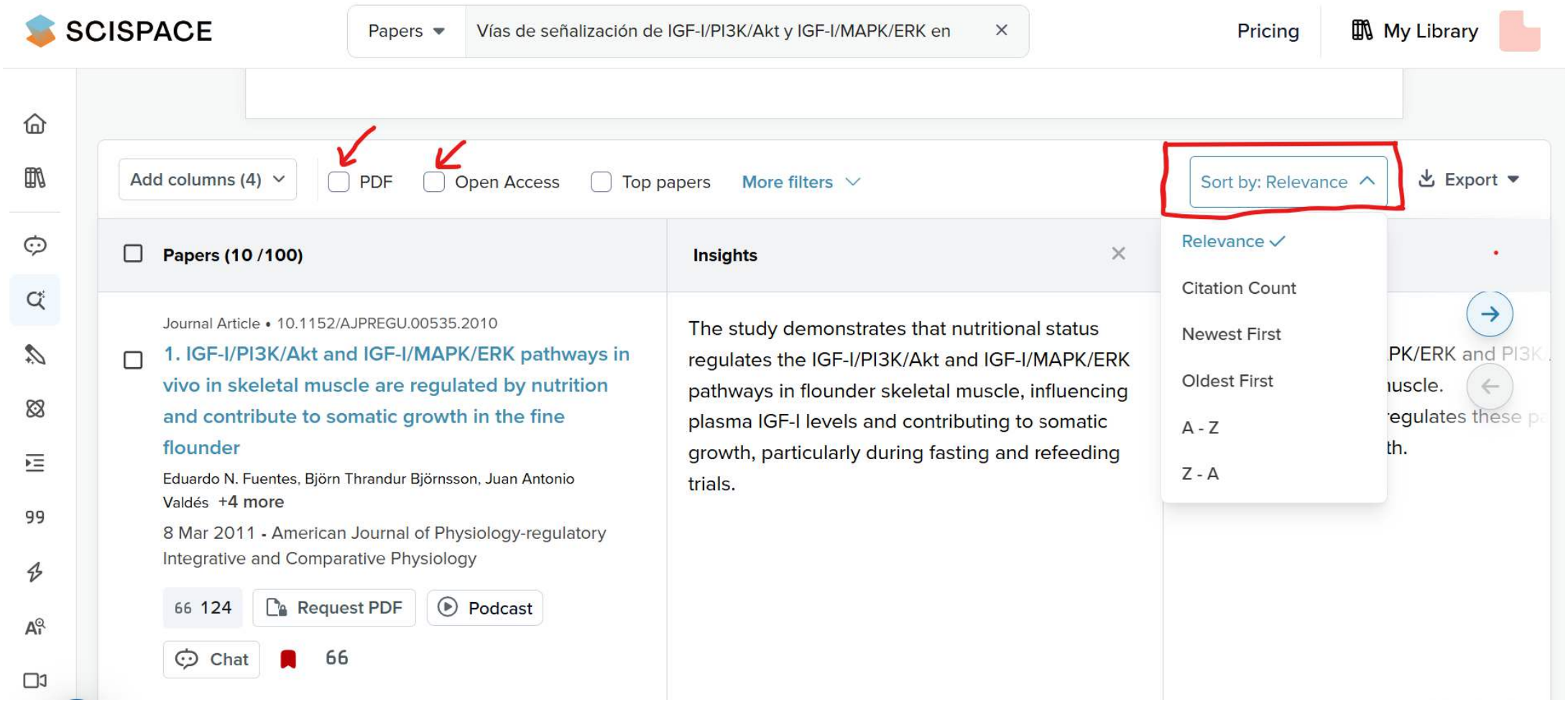
Columnas con información precisa de puntos clave



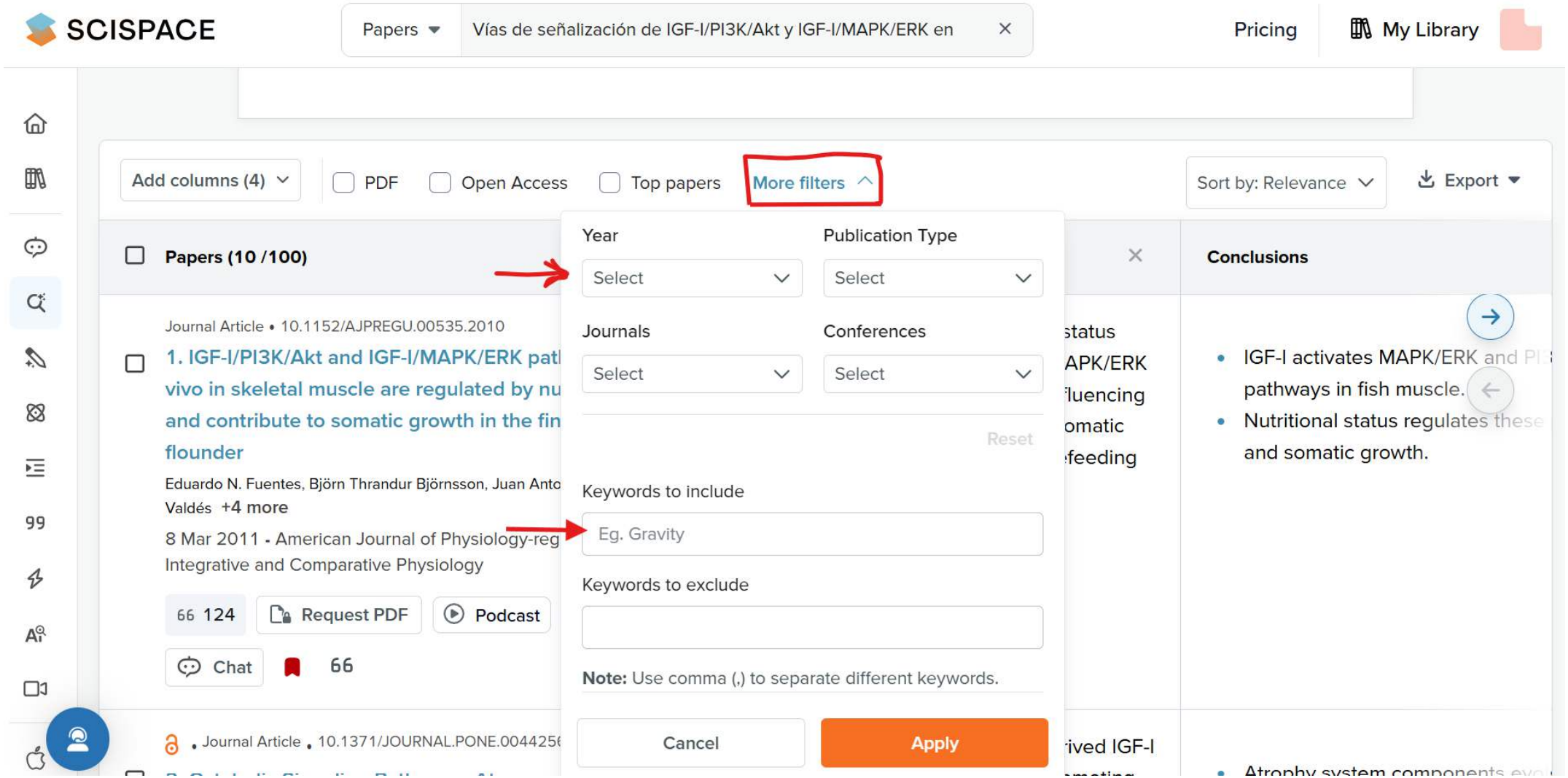
Agrega columnas extra para resumir información



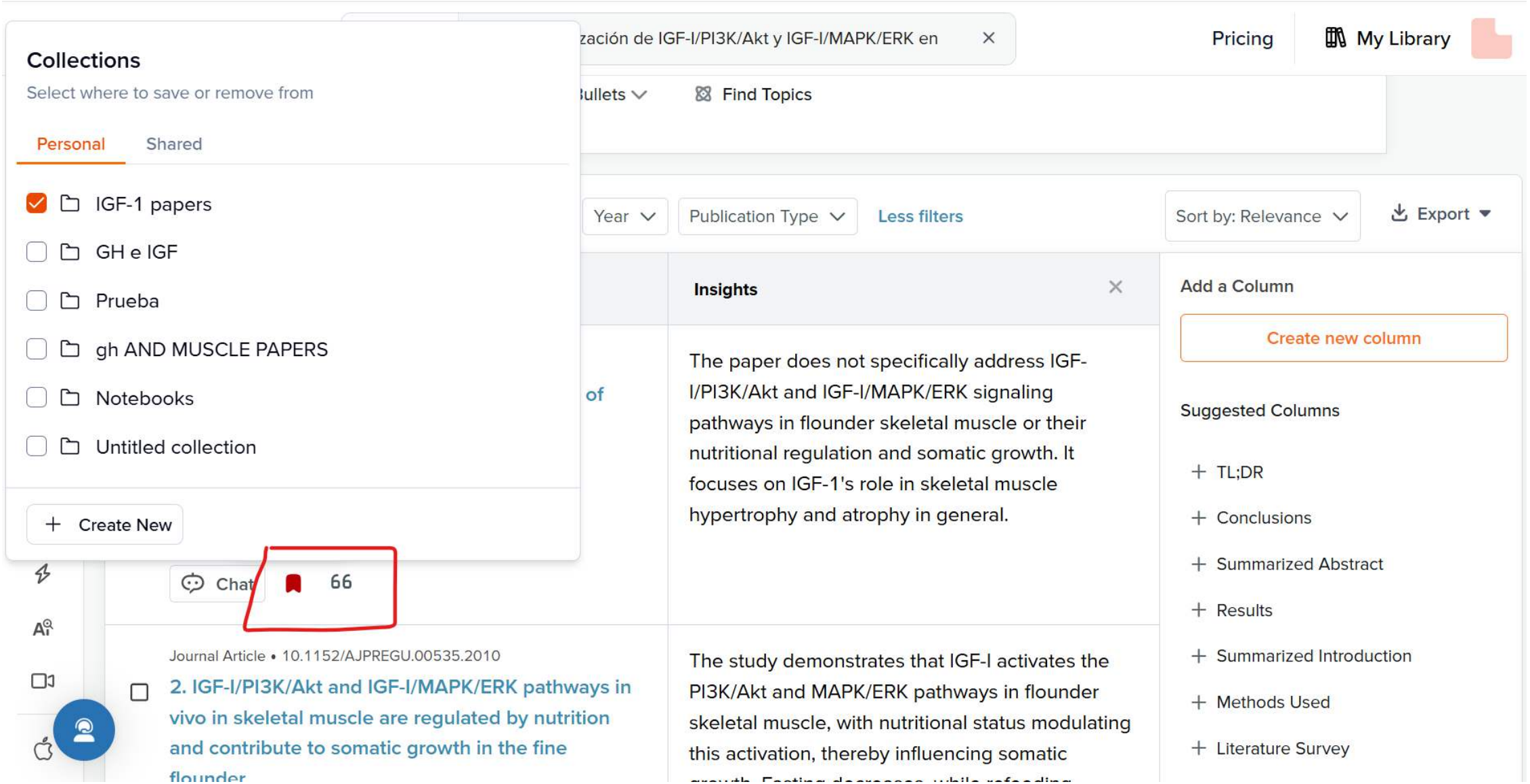
Filtros de la literatura (incluidos artículos gratuitos)



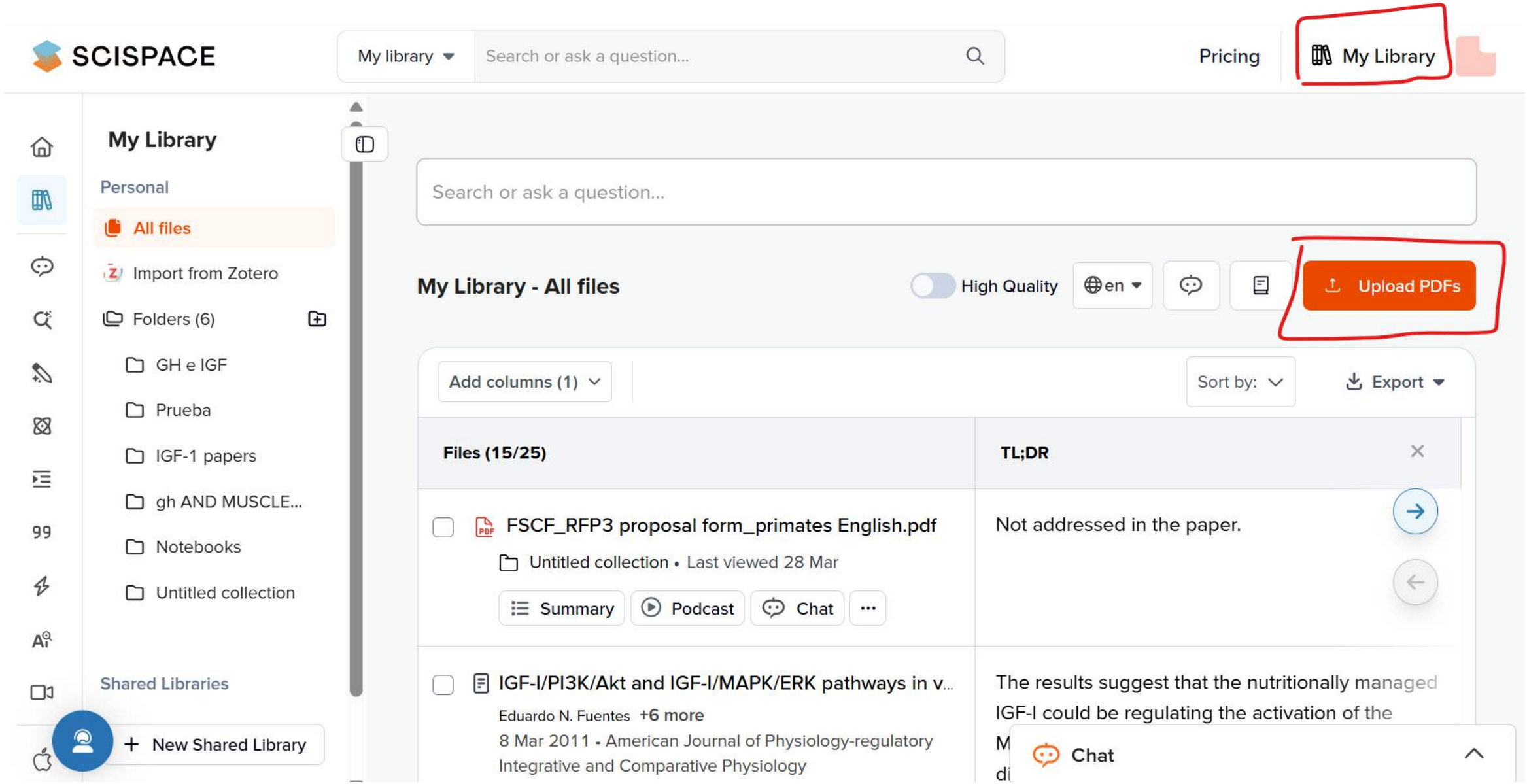
Filtros adicionales (por año, inclusión/exclusión) de keywords



Guarda tus papers en carpetas



Importa tus papers en tu biblioteca para análisis



Ejercicio practico Scispace

Ejercicio Práctico (búsqueda DE LA LITERATURA CON Scispace)

1. Crear cuenta en SciSpace

2. Realizar búsqueda bibliográfica basada en tópicos específicos centrales de su estudio **y/o preguntas de investigación**. Seguir esta formula:

   [Variable Principal] en [Contexto Específico] del [Población], con un enfoque en [Factor/fenómeno/Condicion Analizada].

   Ejemplo: Vías de señalización de IGF-I/PI3K/Akt y IGF-I/MAPK/ERK en el músculo esquelético del lenguado fino (*Paralichthys adspersus*), con un enfoque en la regulación nutricional y el crecimiento somático in vivo.

3. Encontrar papers relevantes, análisis rápido, aplicar filtros, guardar, escoger los papers mas atingentes.

Módulo 2:

Lectura, análisis, síntesis y toma de notas de la literatura

Open Access | Journal Article | 10.1210/EN.2011-1313

Inherent growth hormone resistance in the skeletal muscle of the fine flounder is modulated by nutritional status and is characterized by high contents of truncated GHR, impairment in the JAK2/STAT5 signaling pathway, and low IGF-I expression.

Eduardo N. Fuentes, +5 more - 31 Dec 2011 - Endocrinology - Vol.

Podcast | 66 46 | PDF | Saved | Cite

TL;DR: A unique model of inherent GH resistance in the skeletal muscle of a nonmammalian species is revealed for the first time and novel insights of the e read more

Abstract: A detailed understanding of how the GH and IGF-I regulate muscle growth, especially in early vertebrates, is still lacking. The fine flounder is a flatfish spec read more

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Explain the text

GHR dynamics GHRt contents in muscle are almost 4-fold higher than GHRfl, finding low GHRfl to GHRt ratios (Fig. 4). GHRfl and GHRt muscle content did not change significantly in the CTRL fish during the trial, both in the long-term (Fig. 3, A and E, and Fig. 4C) or the short-term feeding obser- vations (Fig. 3, B ... Read more

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Explain Abstract of this paper, Conclusions +12 more

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especially in early vertebrates, is still lacking. The fine flounder is a flatfish spec read more

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- Explain Abstract of this paper
- Conclusions from the paper
- Results of the paper
- Methods used in this paper
- Summarise introduction of this paper
- What are the contributions of this paper

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Explain math & table | 104% | ⛶ | ⋮

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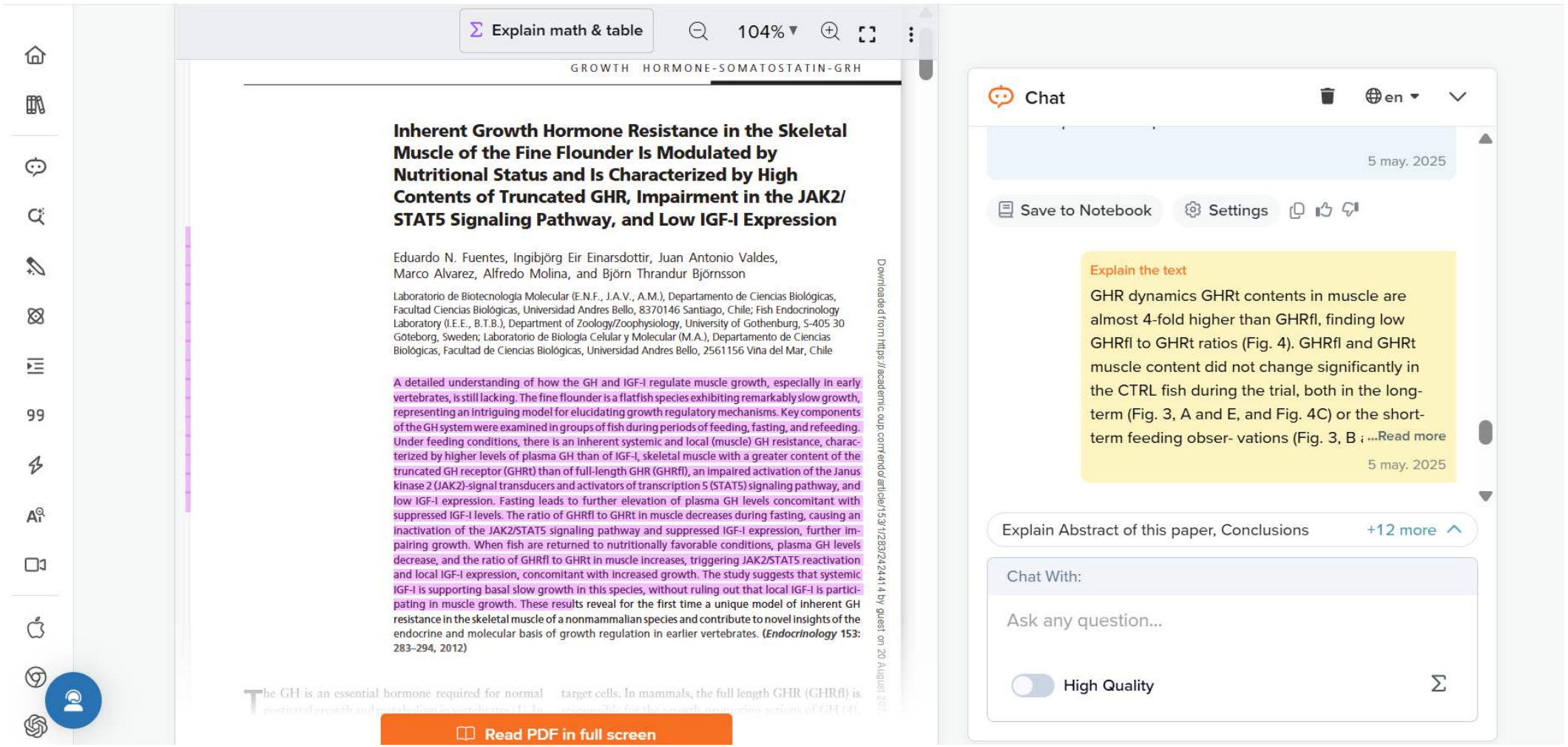
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GROWTH HORMONE-SOMATOSTATIN-GRH
Inherent Growth Hormone Resistance in the Skeletal Muscle of the Fine Flounder Is Modulated by Nutritional Status and Is Characterized by High Contents of Truncated GHR, Impairment in the JAK2/STAT5 Signaling Pathway, and Low IGF-I Expression
Eduardo N. Fuentes, Ingibjörg Eir Einarsdottir, Juan Antonio Valdes, Marco Alvarez, Alfredo Molina, and Björn Thrandur Björnsson
Laboratorio de Biotecnología Molecular (E.N.F., J.A.V., A.M.), Departamento de Ciencias Biológicas, Facultad Ciencias Biológicas, Universidad Andres Bello, 8370146 Santiago, Chile; Fish Endocrinology Laboratory (I.E.E., B.T.B.), Department of Zoology/Zoophysiology, University of Gothenburg, S-405 30 Göteborg, Sweden; Laboratorio de Biología Celular y Molecular (M.A.), Departamento de Ciencias Biológicas, Facultad de Ciencias Biológicas, Universidad Andres Bello, 2561156 Viña del Mar, Chile
A detailed understanding of how the GH and IGF-I regulate muscle growth, especially in early vertebrates, is still lacking. The fine flounder is a flatfish species exhibiting remarkably slow growth, representing an intriguing model for elucidating growth regulatory mechanisms. Key components of the GH system were examined in groups of fish during periods of feeding, fasting, and refeeding. Under feeding conditions, there is an inherent systemic and local (muscle) GH resistance, characterized by higher levels of plasma GH than of IGF-I, skeletal muscle with a greater content of the truncated GH receptor (GHRt) than of full-length GHR (GHRfl), an impaired activation of the Janus kinase 2 (JAK2)-signal transducers and activators of transcription 5 (STAT5) signaling pathway, and low IGF-I expression. Fasting leads to further elevation of plasma GH levels concomitant with suppressed IGF-I levels. The ratio of GHRfl to GHRt in muscle decreases during fasting, causing an inactivation of the JAK2/STAT5 signaling pathway and suppressed IGF-I expression, further impairing growth. When fish are returned to nutritionally favorable conditions, plasma GH levels decrease, and the ratio of GHRfl to GHRt in muscle increases, triggering JAK2/STAT5 reactivation and local IGF-I expression, concomitant with increased growth. The study suggests that systemic IGF-I is supporting basal slow growth in this species, without ruling out that local IGF-I is participating in muscle growth. These results reveal for the first time a unique model of inherent GH resistance in the skeletal muscle of a nonmammalian species and contribute to novel insights of the endocrine and molecular basis of growth regulation in earlier vertebrates. (Endocrinology 153: 283–294, 2012)
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GHR dynamics GHRt contents in muscle are almost 4-fold higher than GHRfl, finding low GHRfl to GHRt ratios (Fig. 4). GHRfl and GHRt muscle content did not change significantly in the CTRL fish during the trial, both in the long-term (Fig. 3, A and E, and Fig. 4C) or the short-term feeding obser- vations (Fig. 3, B ; ...Read more
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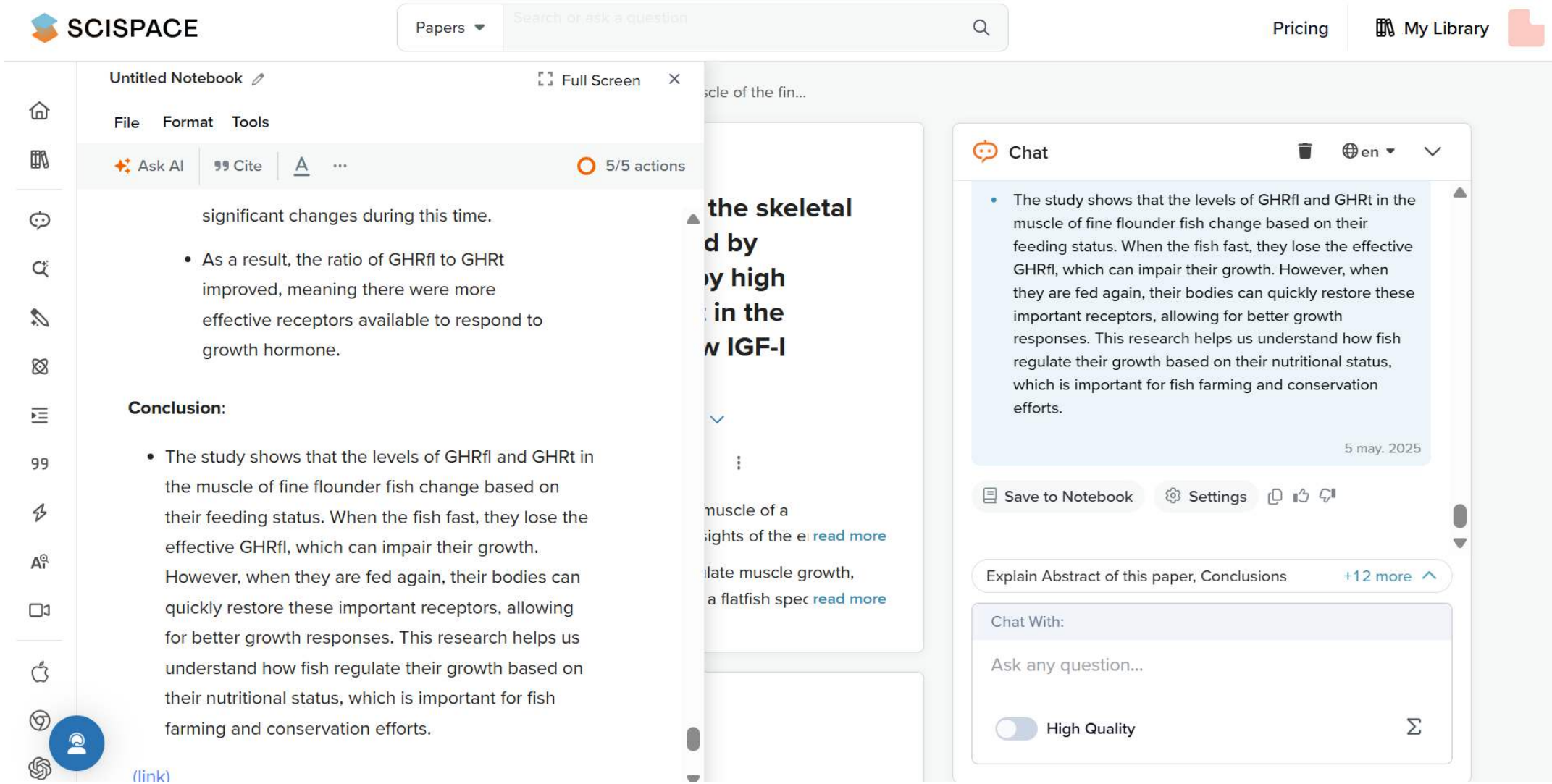
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Papers
Search or ask a question
Pricing
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Untitled Notebook
Full Screen
File
Format
Tools
Ask AI
Cite
5/5 actions
significant changes during this time.
As a result, the ratio of GHRfl to GHRt improved, meaning there were more effective receptors available to respond to growth hormone.
Conclusion:
The study shows that the levels of GHRfl and GHRt in the muscle of fine flounder fish change based on their feeding status. When the fish fast, they lose the effective GHRfl, which can impair their growth. However, when they are fed again, their bodies can quickly restore these important receptors, allowing for better growth responses. This research helps us understand how fish regulate their growth based on their nutritional status, which is important for fish farming and conservation efforts.
(link)
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The study shows that the levels of GHRfl and GHRt in the muscle of fine flounder fish change based on their feeding status. When the fish fast, they lose the effective GHRfl, which can impair their growth. However, when they are fed again, their bodies can quickly restore these important receptors, allowing for better growth responses. This research helps us understand how fish regulate their growth based on their nutritional status, which is important for fish farming and conservation efforts.
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Explain Abstract of this paper, Conclusions
+12 more
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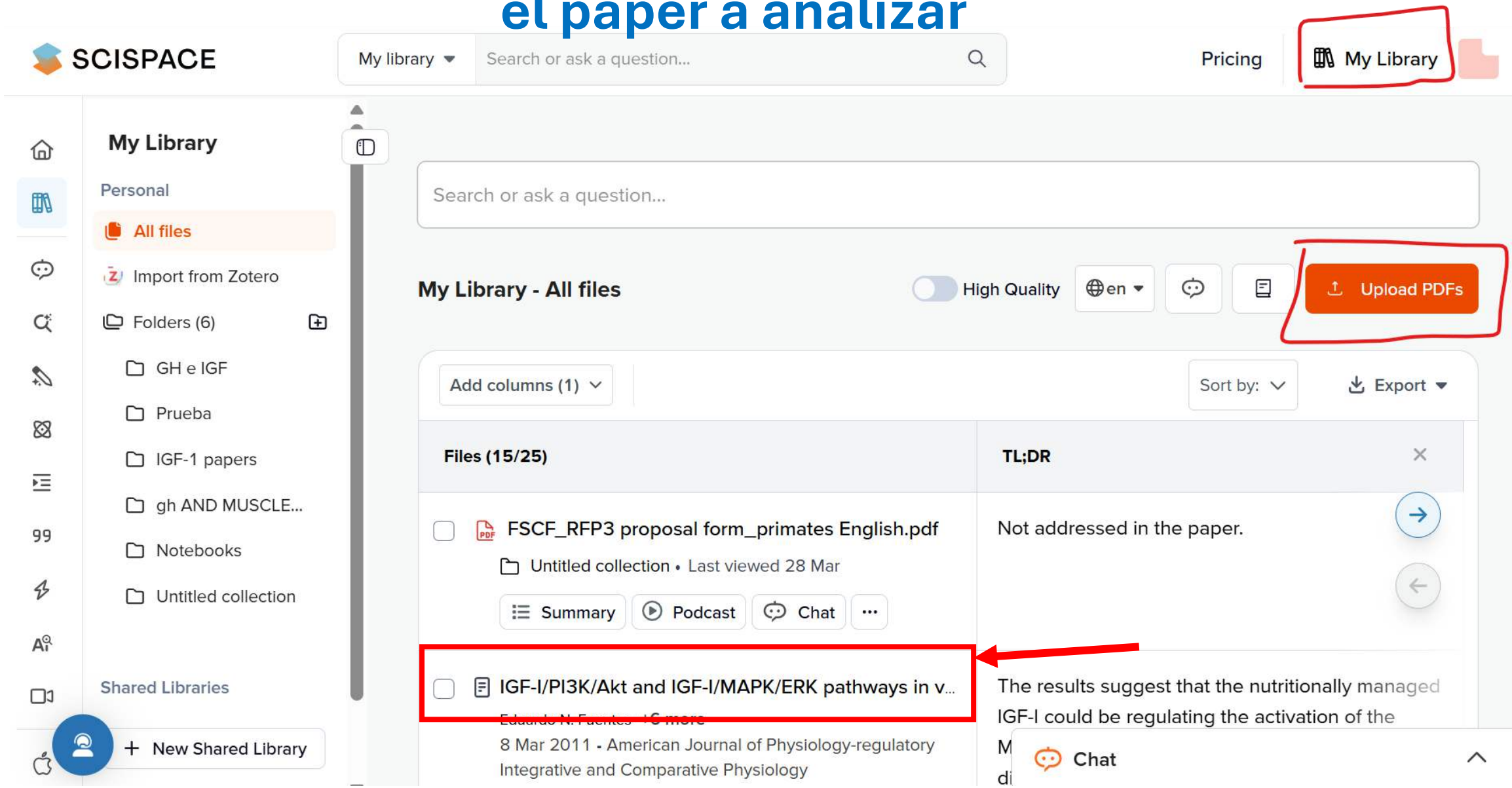

Ejercicio Práctico (LECTURA Y SINTESIS CON Scispace)

1. Aplicar filtro “Show paper PDF” y “Show paper Open Access”
2. Identificar 1 paper de interés luego de haber filtrado y analizado los resultados
3. Análisis en profundidad con chat
4. Toma de notas de información relevante

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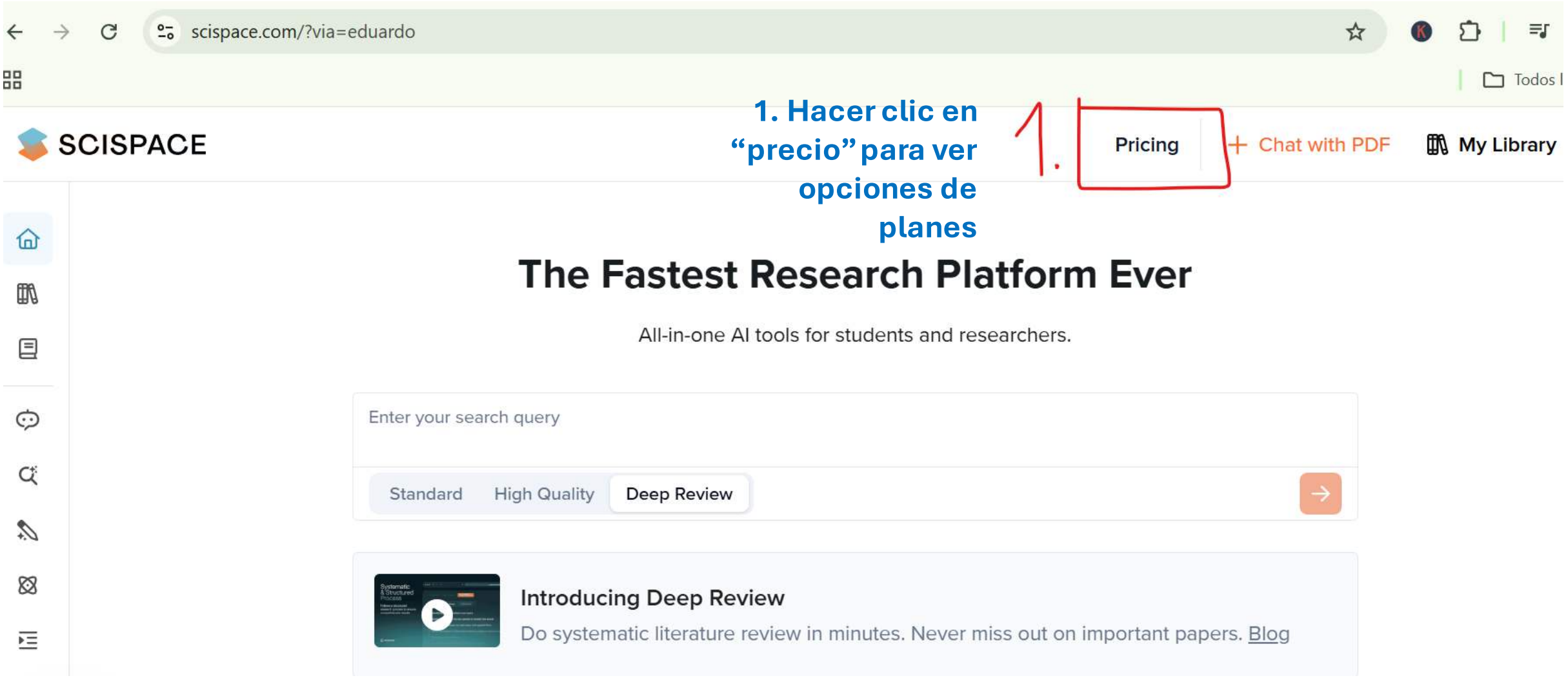

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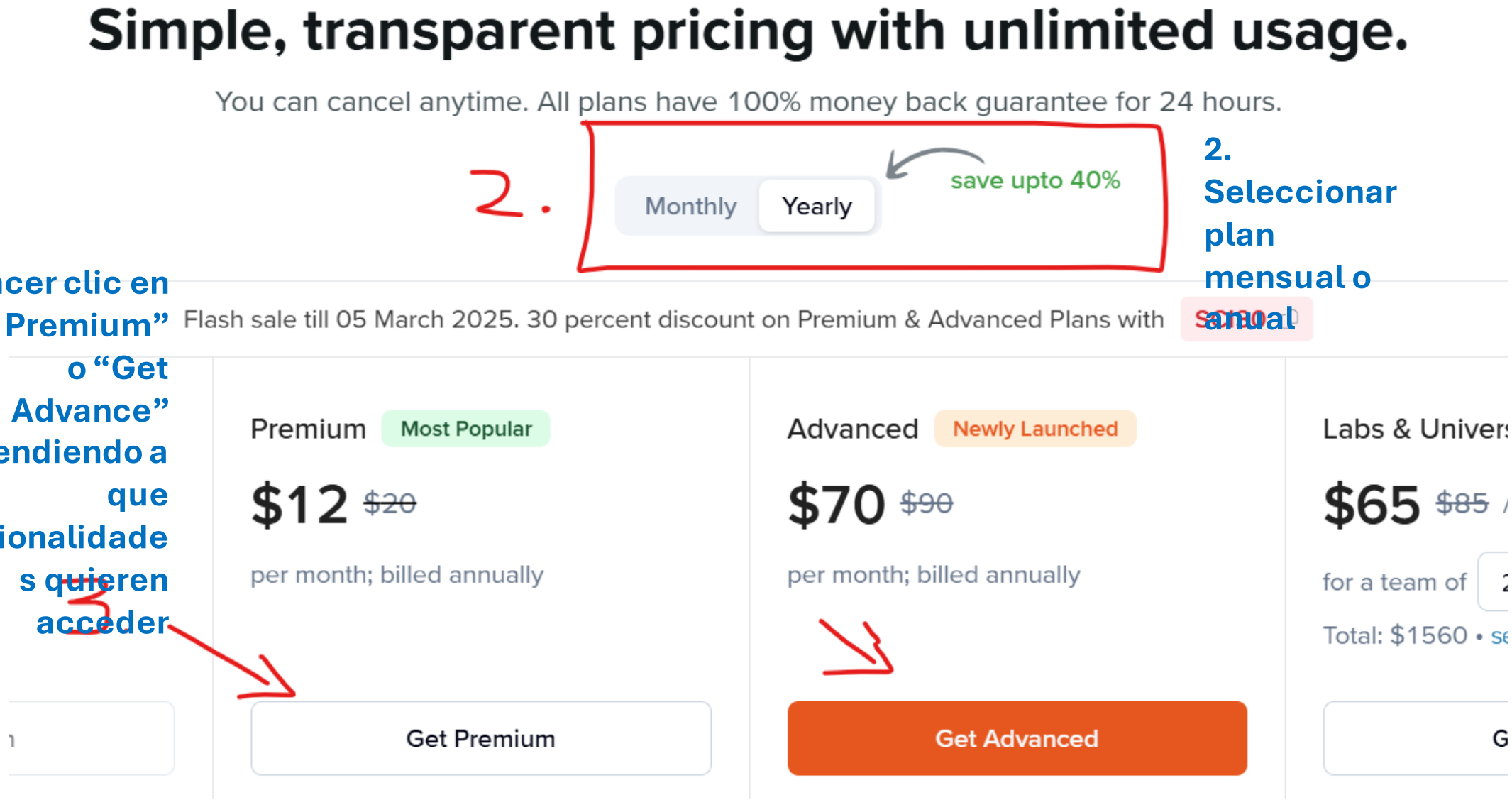

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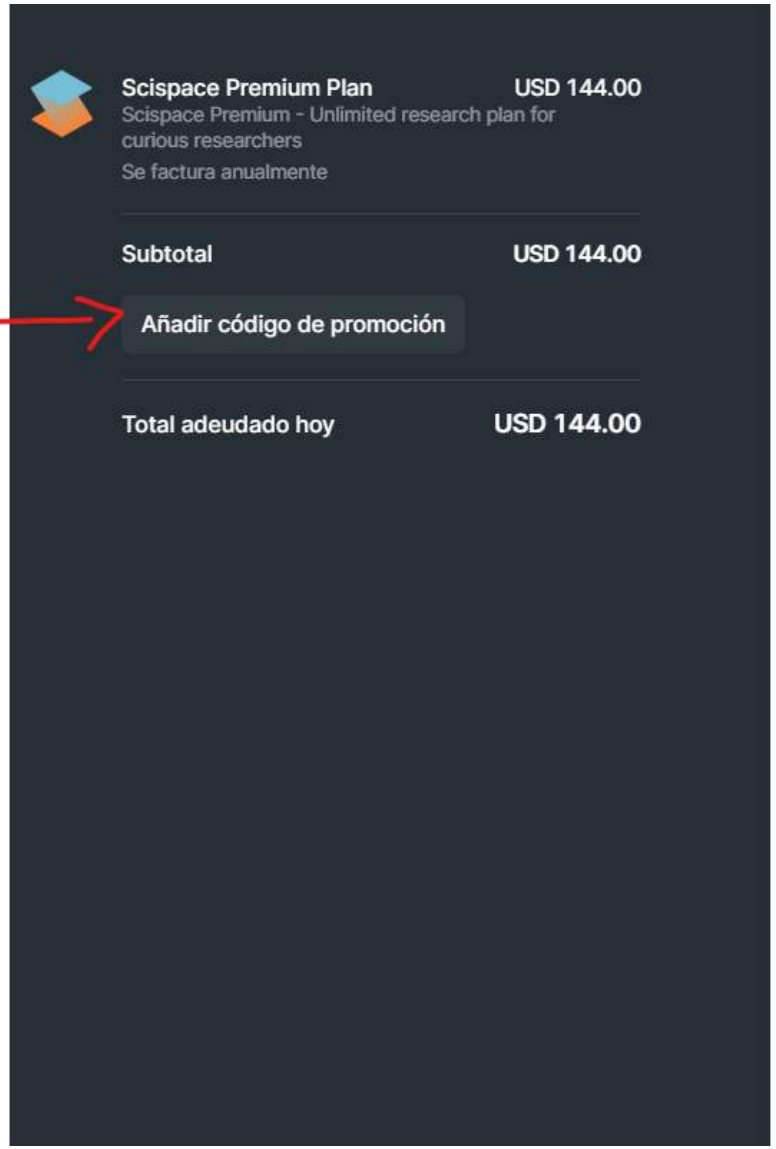

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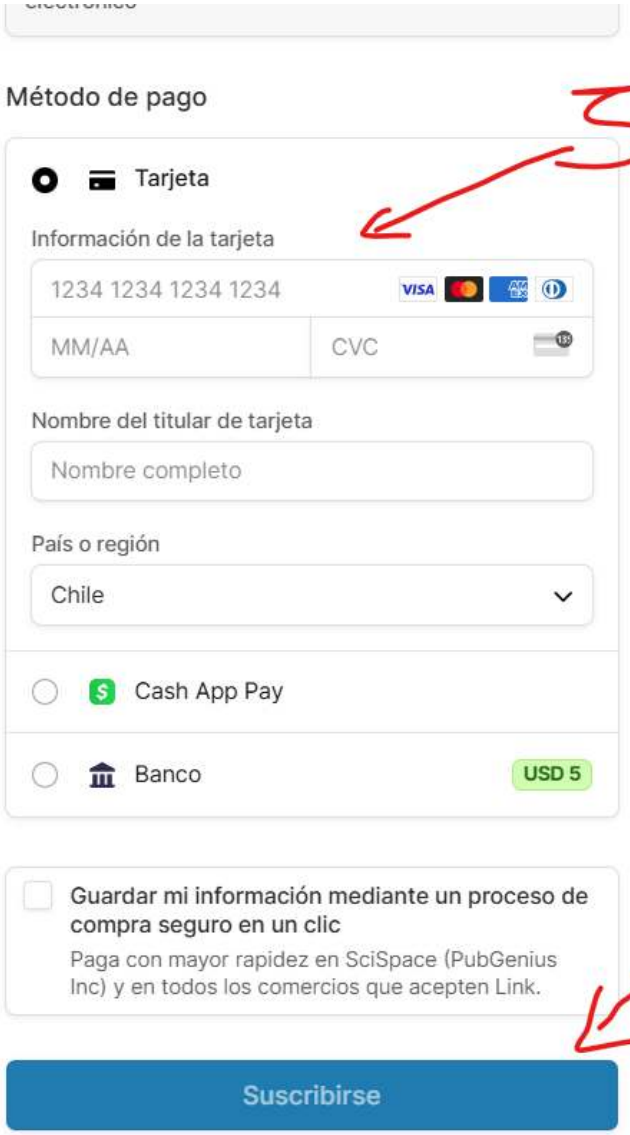

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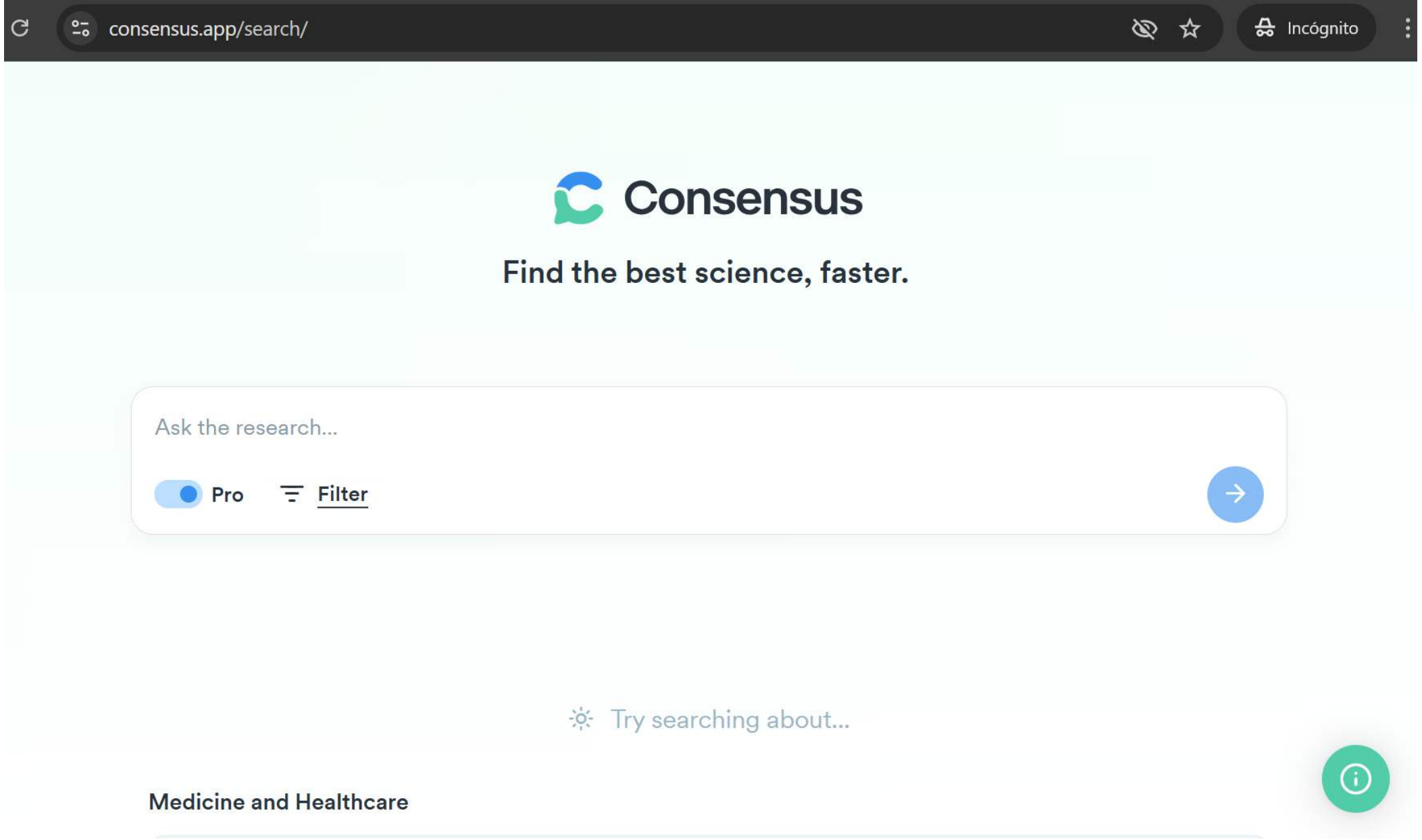

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fish skeletal muscle growth signalling pathways

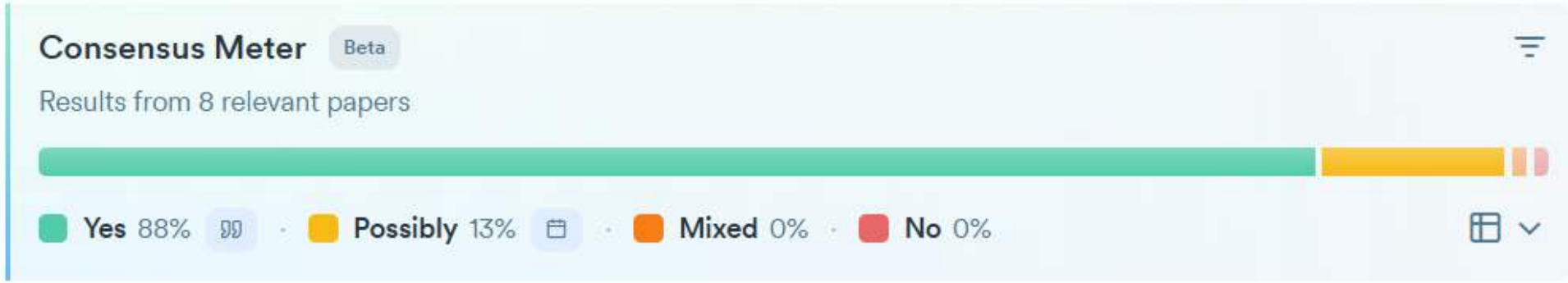
Fish skeletal muscle growth is regulated by complex signaling pathways that control protein synthesis, cell proliferation, and muscle fiber development. These pathways are influenced by hormones, nutrients, stress, and genetic factors, and involve both anabolic (growth-promoting) and catabolic (breakdown-promoting) mechanisms.

Key Signaling Pathways

Growth Hormone–Insulin-like Growth Factor (GH–IGF) System

- The GH–IGF system is central to muscle growth in fish. GH stimulates IGF-I expression via the JAK2/STAT5 pathway, though this effect can be limited by the presence of truncated GH receptors in muscle, leading to GH resistance in some species [2] [9].
- IGFs promote muscle cell proliferation, differentia in synthesis through the MAPK/ERK and PI3K/AKT/TOR pathways, while also inhibiting pr ion via the PI3K/AKT/FOXO pathway [2] [4] [10].
- Nutritional status modulates IGF ses expression of atrophy-related genes, while refeeding restores

does IGF1 increase muscle growth in fish?



Insulin-like growth factor 1 (IGF1) is a key hormone involved in regulating muscle growth in fish. **IGF1 increases muscle growth in fish by promoting protein synthesis, muscle cell proliferation, and hypertrophy, and by reducing muscle atrophy.**

Mechanisms of IGF1 Action

- **Muscle Cell Proliferation and Differentiation:** IGF1 stimulates the proliferation and differentiation of muscle cells (myogenic cells), leading to increased muscle mass. This is mediated through signaling pathways such as MAPK/ERK and PI3K/AKT/TOR, which enhance protein synthesis and muscle growth while inhibiting protein degradation and atrophy [2] [3] [7].
- **Gene Regulation:** IGF1 upregulates genes involved in muscle growth and downregulates genes associated with muscle atrophy (e.g., myostatin, fbxo32, murf1). These effects are observed under both normal and nutrient-restricted conditions, though the magnitude can depend on nutritional status [1] [3] [8] [10].
- **Receptor Abundance:** Fish skeletal muscle has a high abundance of IGF1 receptors, making it highly responsive to IGF1 stimulation compared to insulin [6].

Does IGF signaling primarily regulate fish skeletal muscle growth?

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Requires at least 5 papers that directly answer your question. Try adjusting your query to find more papers.

Does IGF signaling regulate skeletal muscle growth?

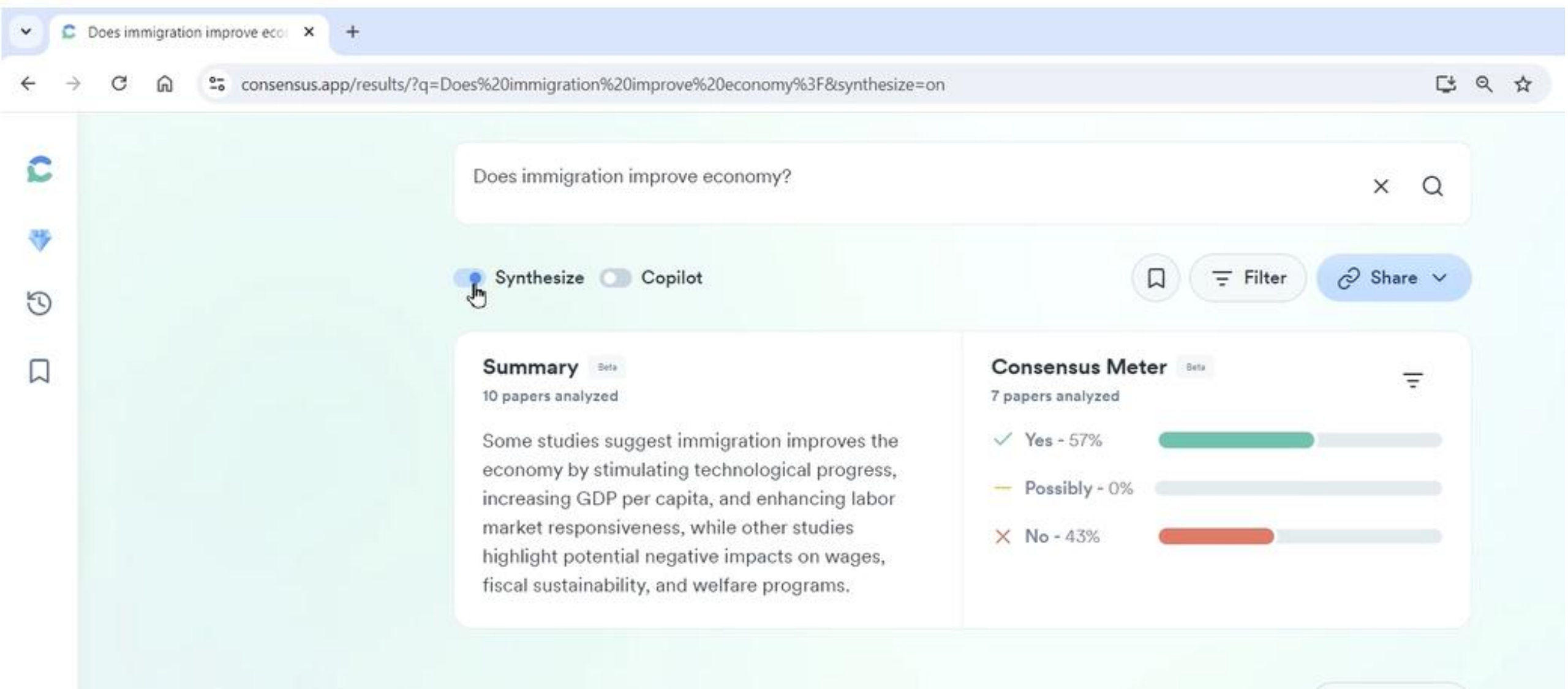
IGF (insulin-like growth factor) signaling is a central regulator of fish skeletal muscle growth, acting through both endocrine and local mechanisms. The available research highlights that **IGF signaling, particularly via IGF-1, plays a primary and essential role in promoting muscle growth, regeneration, and protein synthesis in fish**.

Role of IGF Signaling in Muscle Growth

Results

- **Muscle Regeneration and Growth:** IGF-1 and IGF [illegible] ulated during muscle regeneration, supporting the formation of new muscle fibers a[illegible]es as muscle heals, indicating its importance in muscle repair and

Ask a follow up... /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10 papers analyzed
Some studies suggest immigration improves the economy by stimulating technological progress, increasing GDP per capita, and enhancing labor market responsiveness, while other studies highlight potential negative impacts on wages, fiscal sustainability, and welfare programs.
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Possibly - 0%
No - 43%

1 Muscle regeneration in gilthead sea bream: Implications of endocrine and local regulatory factors and the crosstalk with bone

Fish muscle regeneration involves early upregulation of igf-2 and downregulation of ghr-1 and igf-1, with potential tissue crosstalk during the regenerative process.

Non-RCT | Animal Study | Ask this paper

2023 · 3 citations · Aitor Otero-Tarrazón et al. · *Frontiers in Endocrinology*

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IGF Signaling Fish Muscle Growth
· 2 queries

Conclusion

Fish skeletal muscle growth is orchestrated by a network of signaling pathways, with the
myostatin pathways playing central roles. Nutritional status, stress, and specific nutrients
influence these pathways, affecting the balance between muscle growth and degradatio
mechanisms provides insight into fish growth regulation and potential strategies for aqua

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fish skeletal muscle growth signalling pathways

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TYPE Original Research
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SPECIALTY SECTION
This article was submitted to Experimental Endocrinology, a section of the journal Frontiers in Endocrinology

RECEIVED 17 November 2022

Muscle regeneration in gilthead sea bream: Implications of endocrine and local regulatory factors and the crosstalk with bone

Aitor Otero-Tarrazón†, Miquel Perelló-Amorós†, Violeta Jorge-Pedraza, Fatemeh Moshayedi, Albert Sánchez-Moya, Isabel García-Pérez, Jaume Fernández-Borràs, Daniel García de la serrana, Isabel Navarro, Josefina Blasco, Encarnación Capilla and Joaquin Gutierrez*

Department of Cell Biology, Physiology and Immunology, Faculty of Biology, University of Barcelona, Barcelona, Spain

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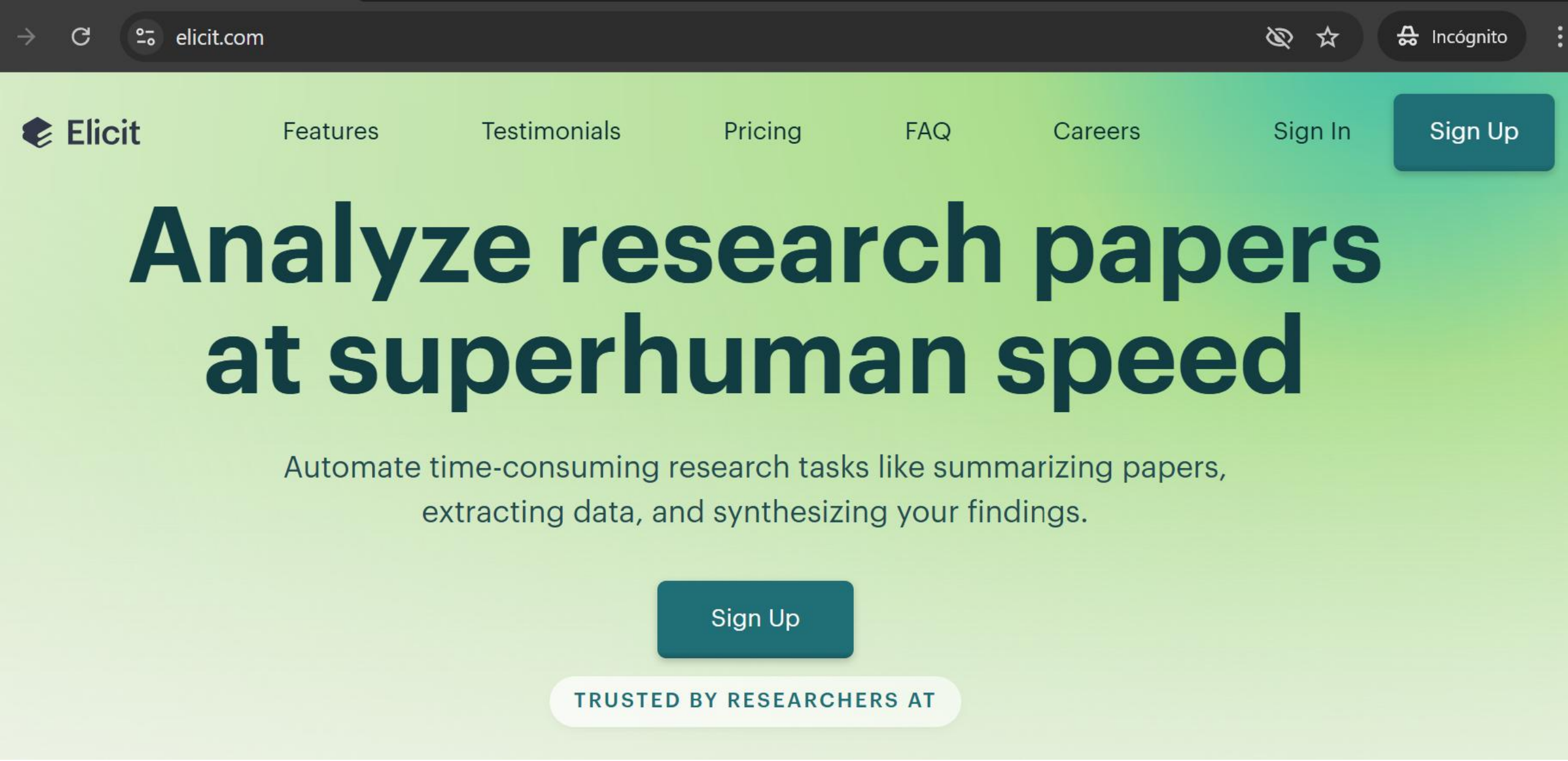

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Regulation of Fish Muscle by GH-IGF Axis

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Does the GH-IGF axis regulate muscle in fish?

Summary of top 4 papers

Copy

The GH-IGF axis plays a crucial role in regulating muscle growth in fish. Fuentes (2013) and Vélez (2016) both highlight the system's influence on muscle mass, with the former emphasizing the role of IGFs in stimulating myogenic cell proliferation and protein synthesis. Vélez (2016) further demonstrates that sustained exercise can enhance the plasma IGF-I/GH ratio and promote muscle growth in gilthead sea bream. However, Hevrøy (2012) suggests that this regulation can be affected by environmental factors, such as temperature, which can lead to a reduction in muscle growth in Atlantic salmon. These findings underscore the complexity of the GH-IGF axis in fish muscle regulation and the need for further research in this area.

Sort: Most relevant | Filters | Export as UPGRADE

Paper	Abstract summary
Regulation of skeletal muscle growth in fish by the growth hormone--insulin-like growth factor system. Eduardo N Fuentes +3 General and comparative endocrinology 2013 · 178 citations DOI	The growth hormone-insulin-like growth factor system is the key promoter of growth in vertebrates.
Effects of sustained exercise on GH-IGFs axis in gilthead sea bream (Sparus aurata). Emilio J. Vélez +10 American Journal of Physiology. Regulatory Integrative and Comparative Physiology 2016 · 30 citations Source DOI	Moderate sustained activity may be used to increase the plasma IGF-I/GH ratio and to potentiate growth in farmed gilthead sea bream.

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+ Methodology
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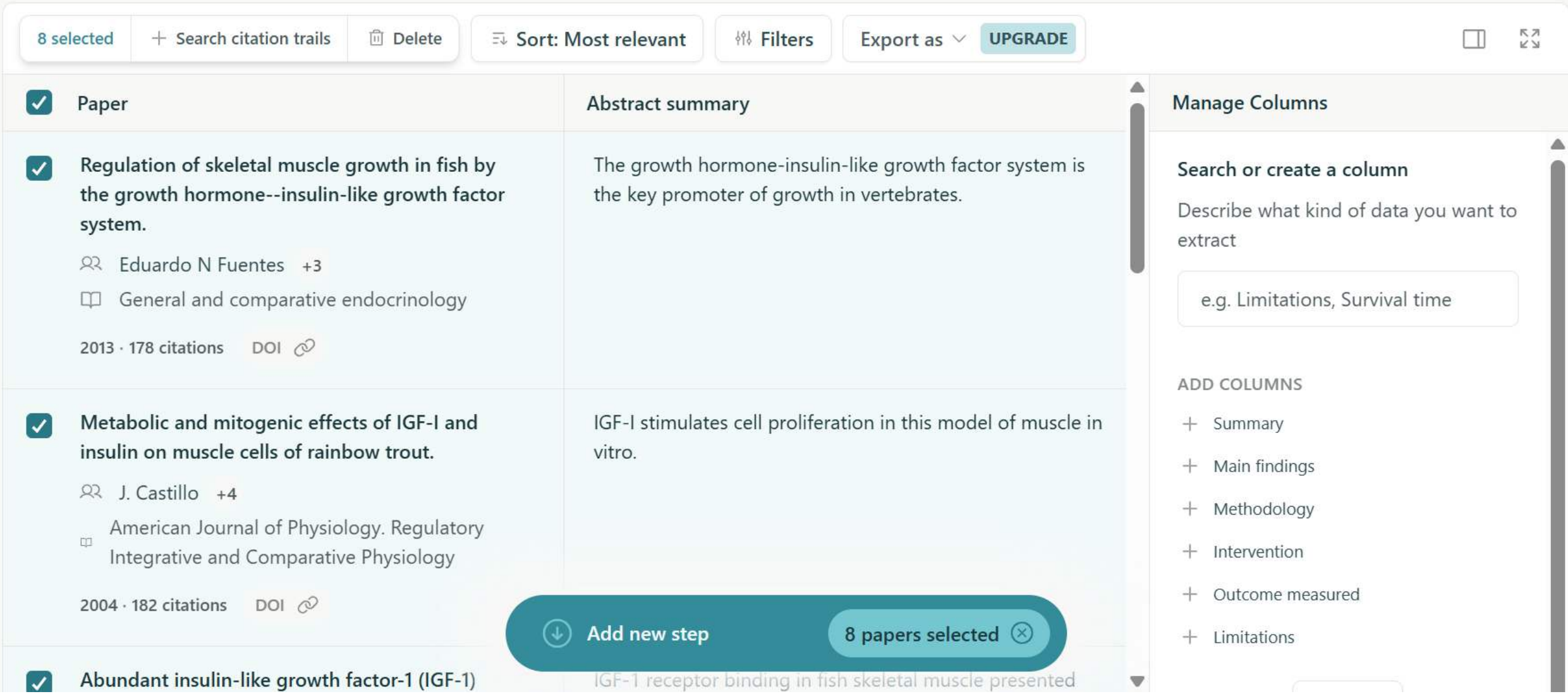
+ Outcome measured
+ Limitations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2013 · 178 citations
DOI
The growth hormone-insulin-like growth factor system is the key promoter of growth in vertebrates.
Metabolic and mitogenic effects of IGF-I and insulin on muscle cells of rainbow trout.
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American Journal of Physiology. Regulatory Integrative and Comparative Physiology
2004 · 182 citations
DOI
IGF-I stimulates cell proliferation in this model of muscle in vitro.
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Abundant insulin-like growth factor-1 (IGF-1)
IGF-1 receptor binding in fish skeletal muscle presented
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Limitations

Mediation of IGF-1-induced skeletal myotube hypertrophy by PI(3)K/Akt/mTOR and PI(3)K/Akt/GSK3 pathways

Christian Rommel +7

Nature Cell Biology

2001 · 1.426 citations DOI

IGF-1 promotes hypertrophy by activating downstream signaling pathways previously implicated in activating protein synthesis.

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- Intervention
- Outcome measured
- Limitations

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Effects of sustained exercise on GH-IGFs axis in gilthead sea bream (Sparus aurata). Emilio J. Vélez +10 American Journal of Physiology. Regulatory Integrative and Comparative Physiology 2016 · 30 citations Source DOI	Moderate sustained activity may be used to increase the plasma IGF-I/GH ratio and to potentiate growth in farmed gilthead sea bream.
Understanding fish muscle growth regulation to	The ef cultured myocytes

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Research Reports	✓	✓	✓	✓
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Módulo 3:

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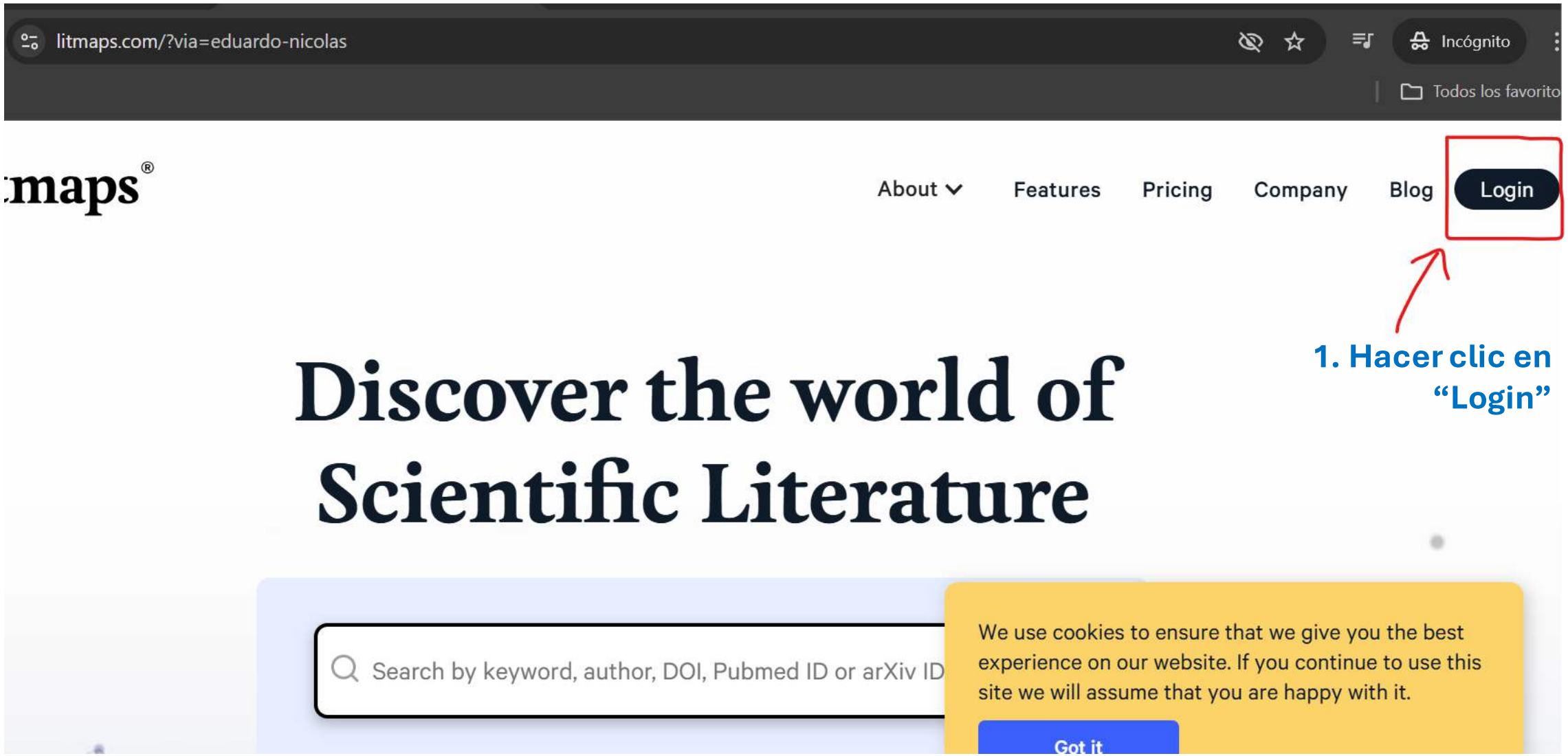
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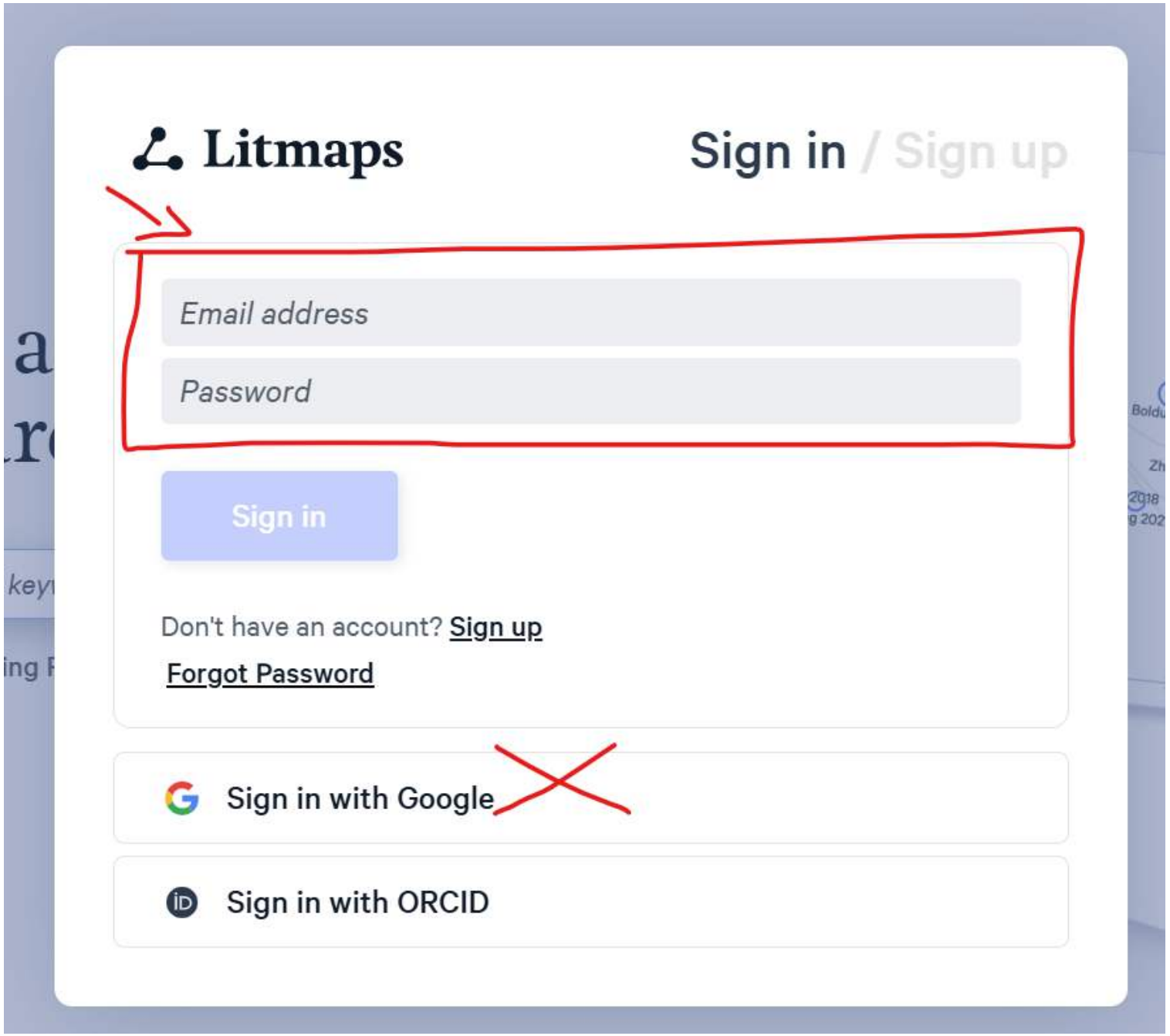

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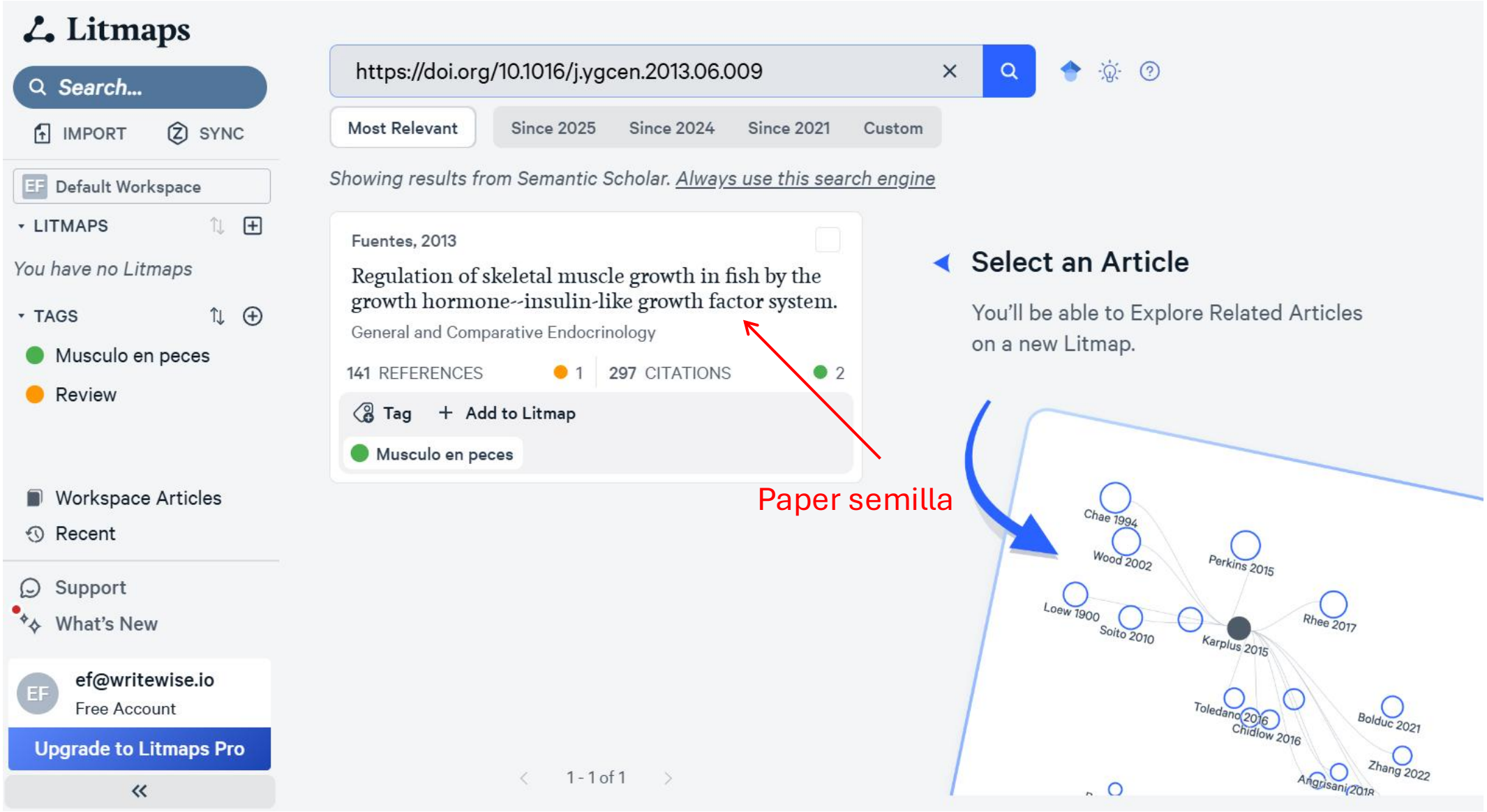

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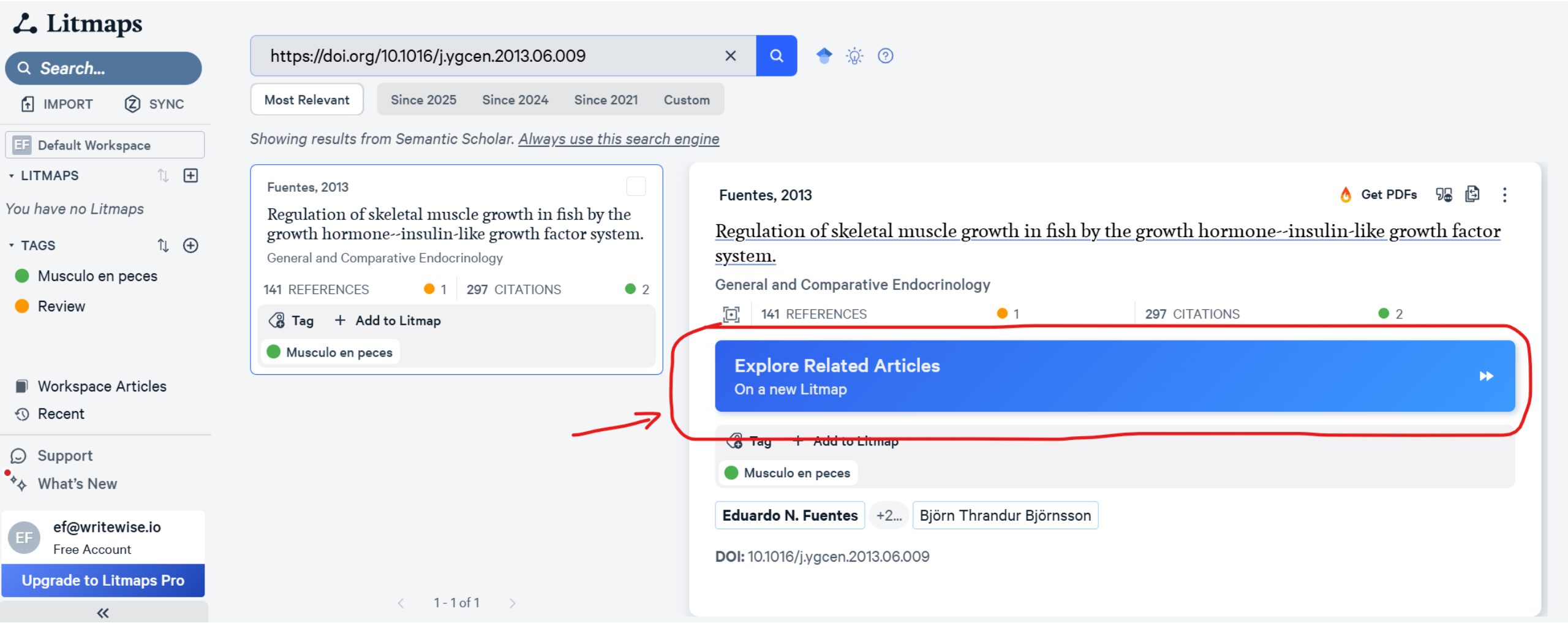

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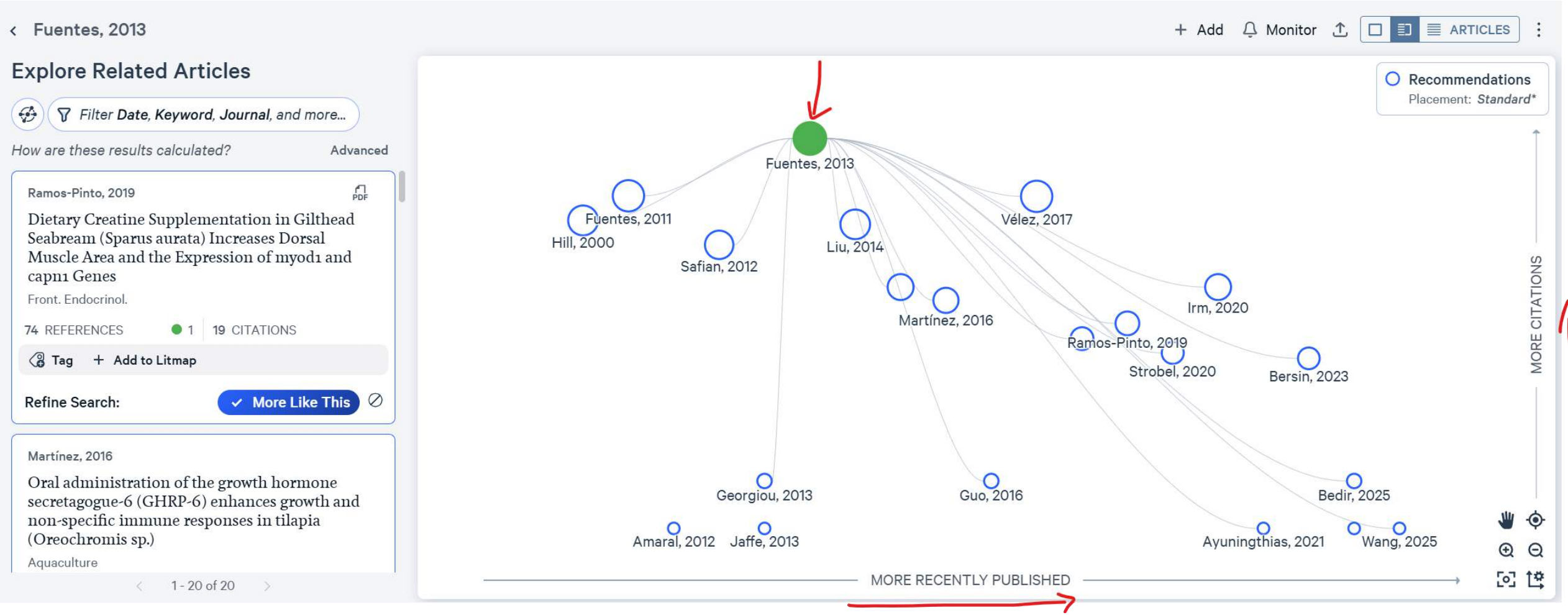

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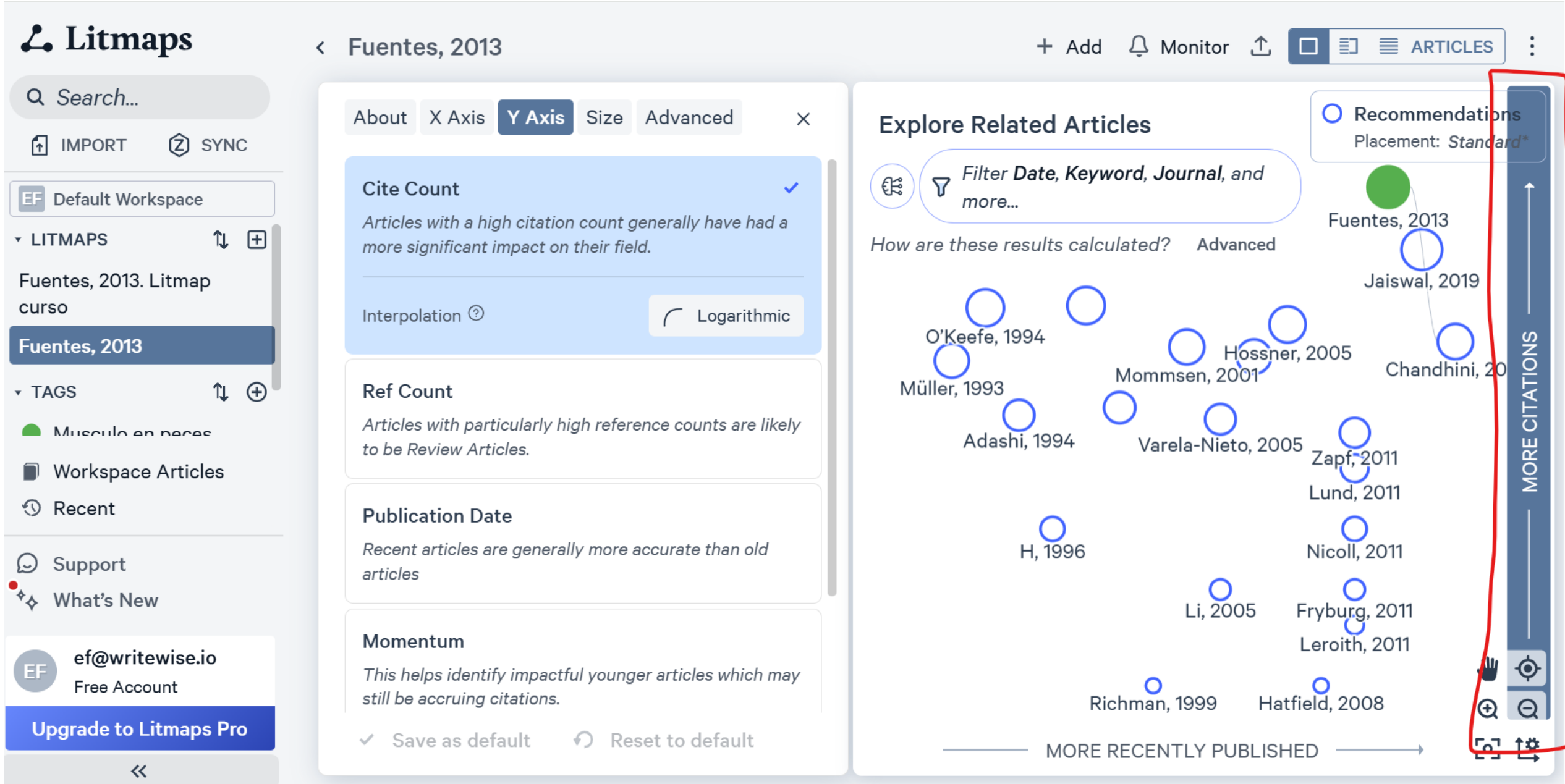

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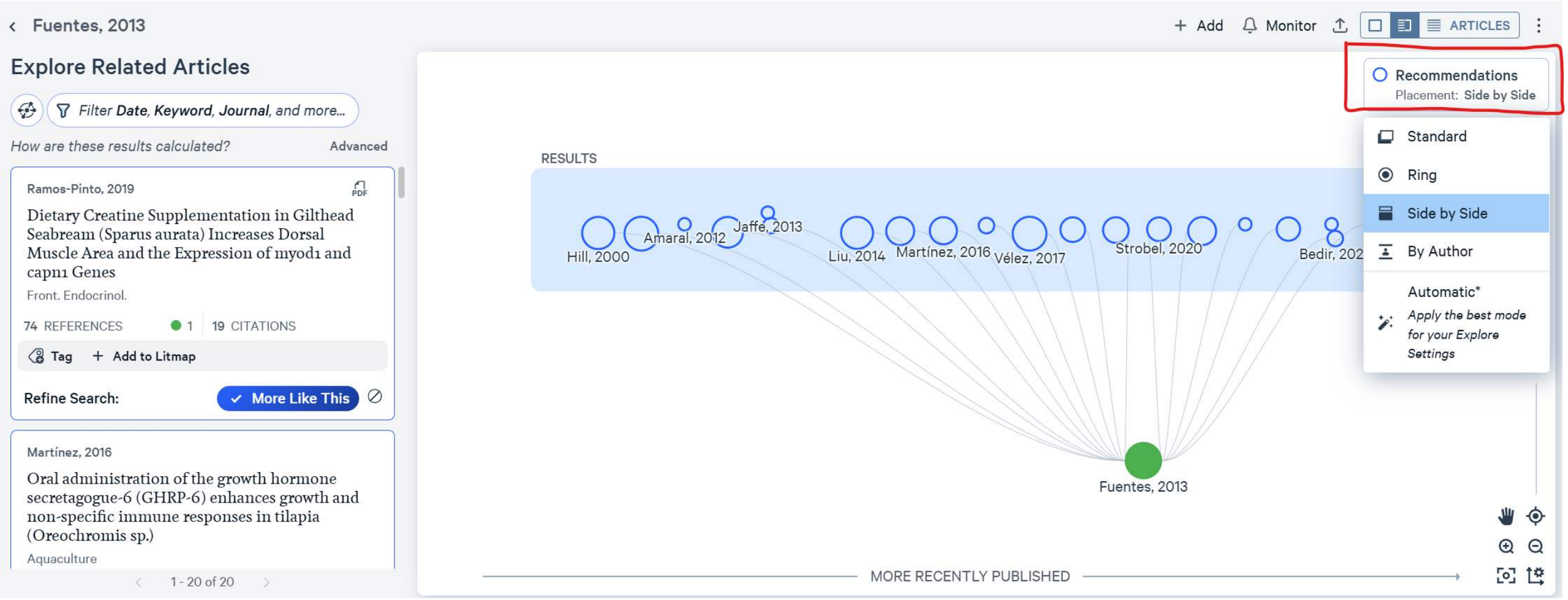

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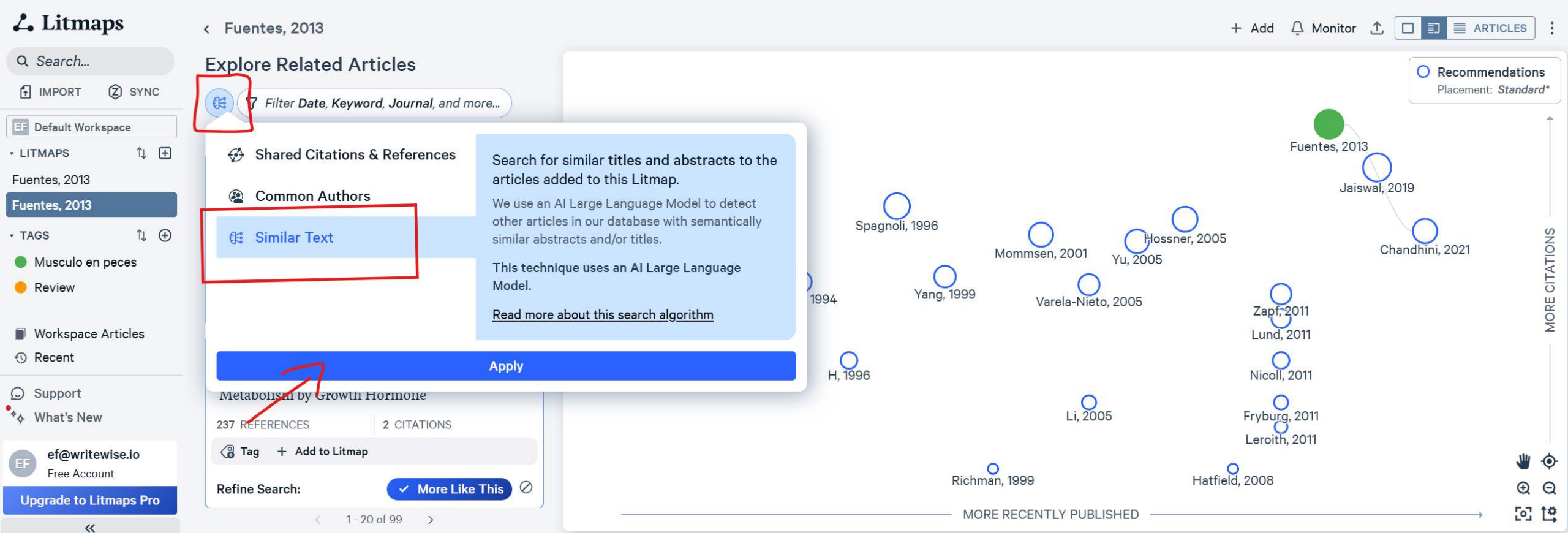

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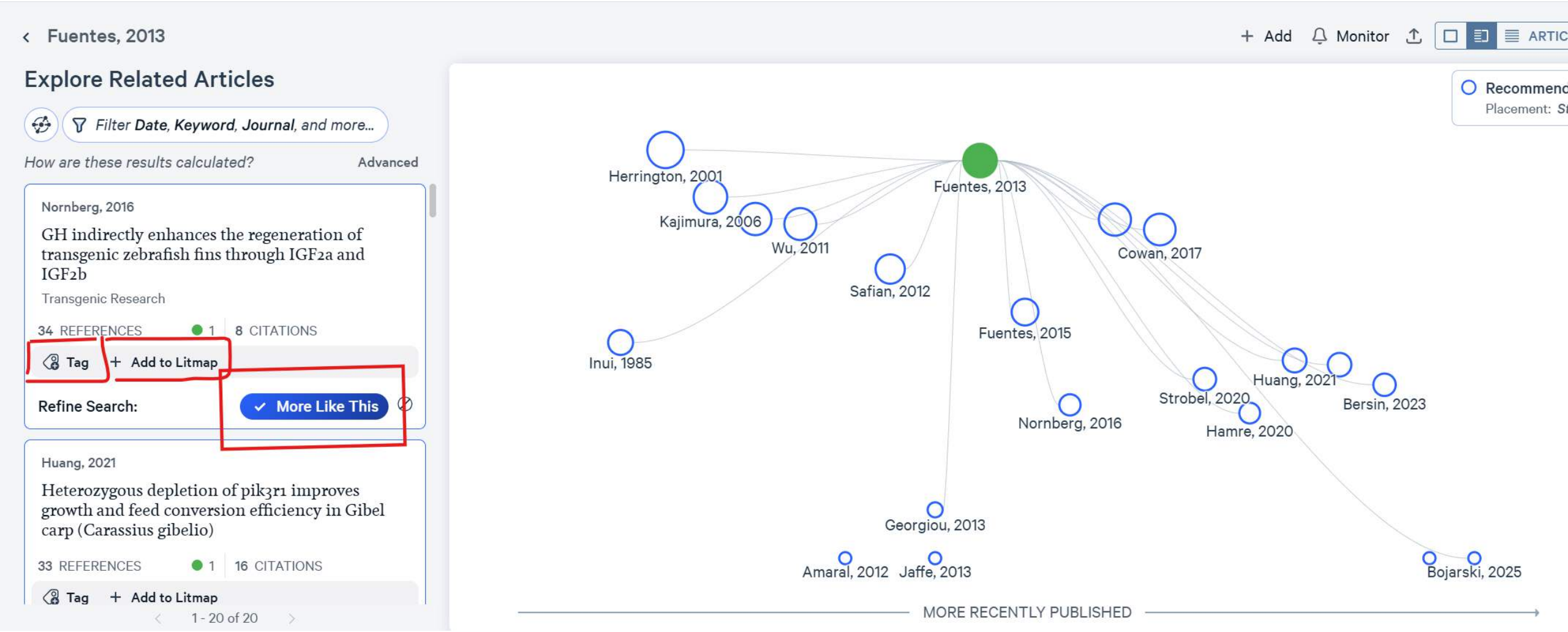

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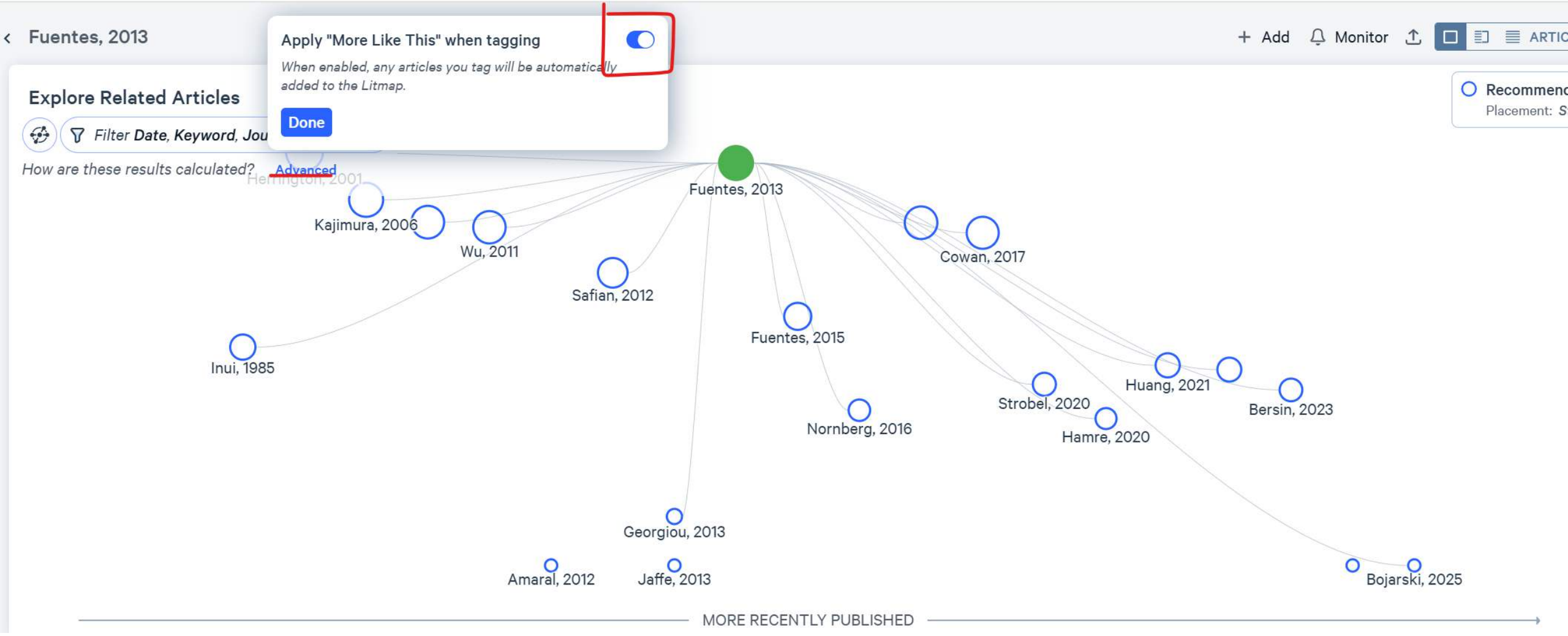

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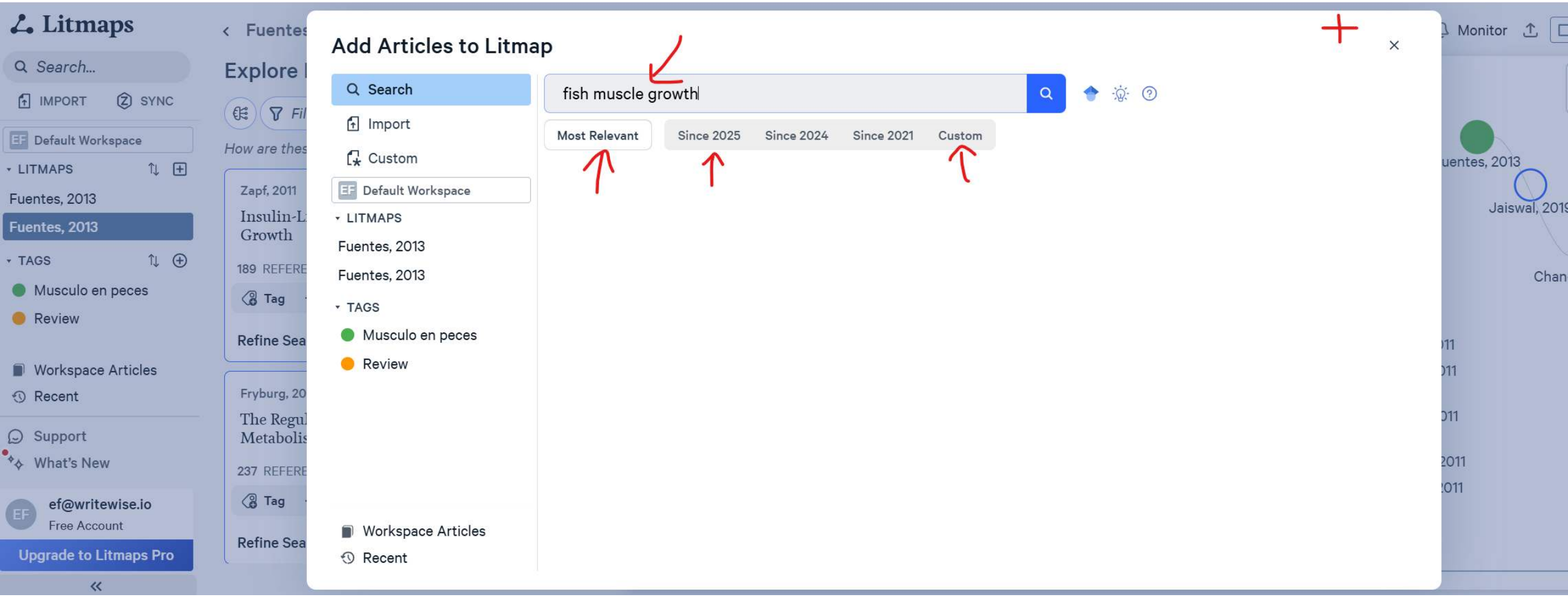

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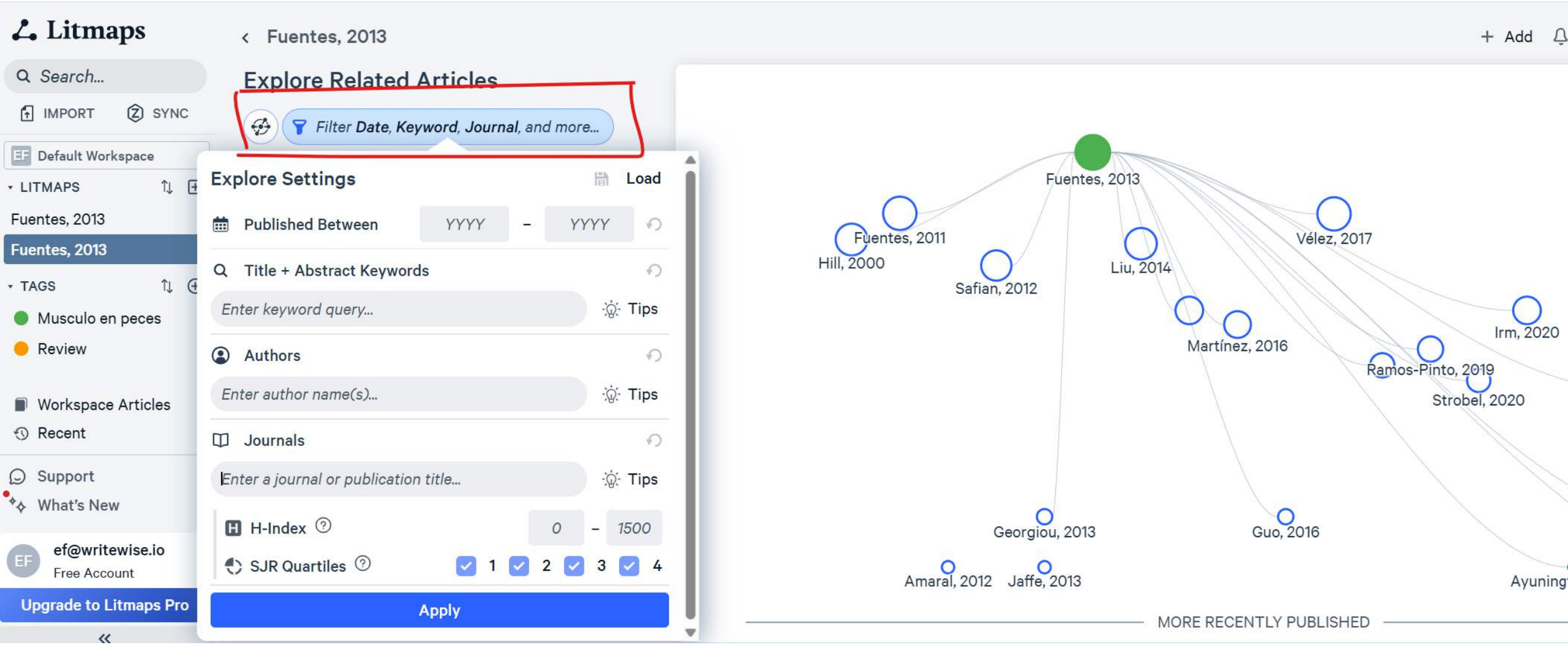

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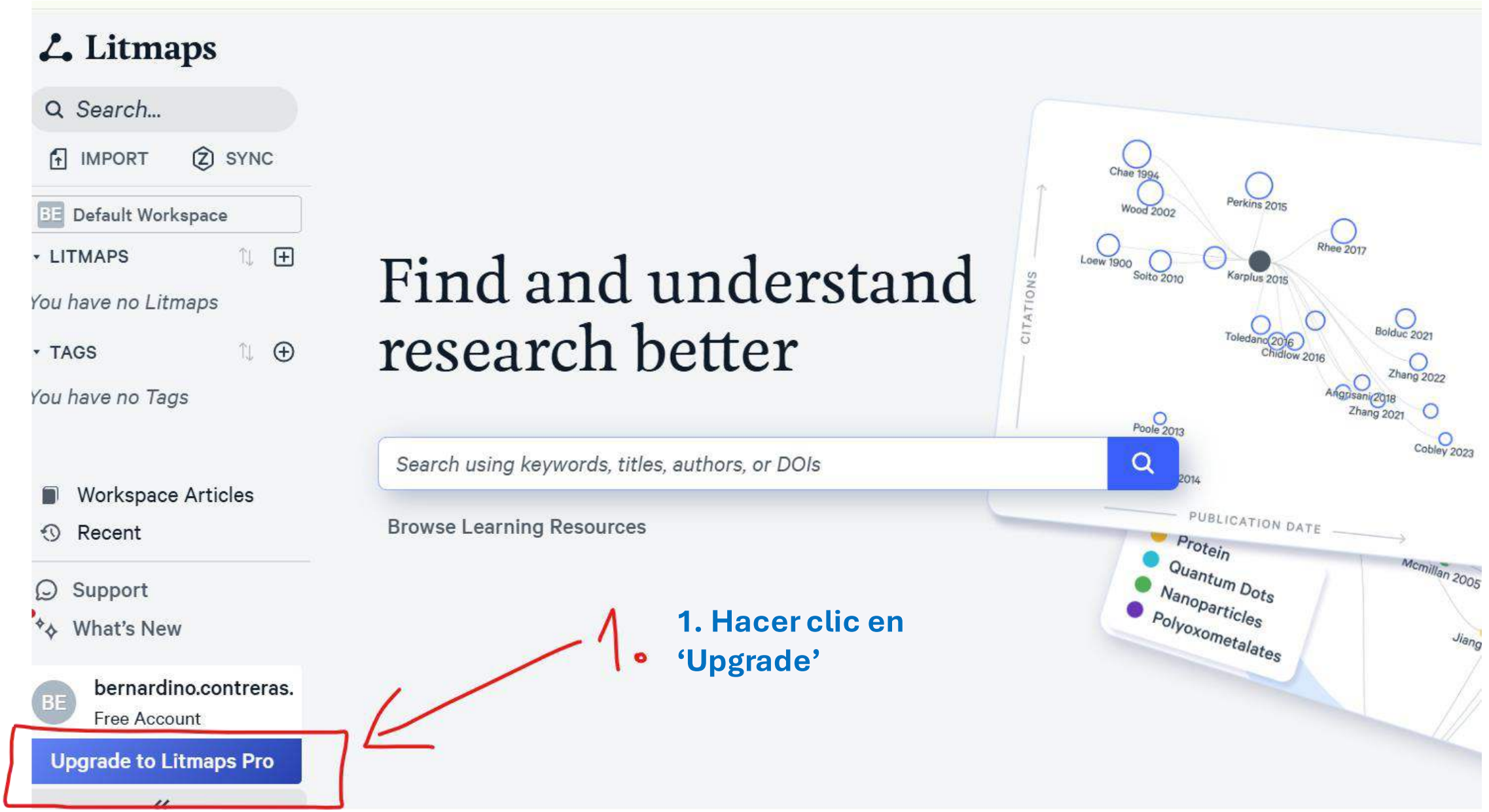

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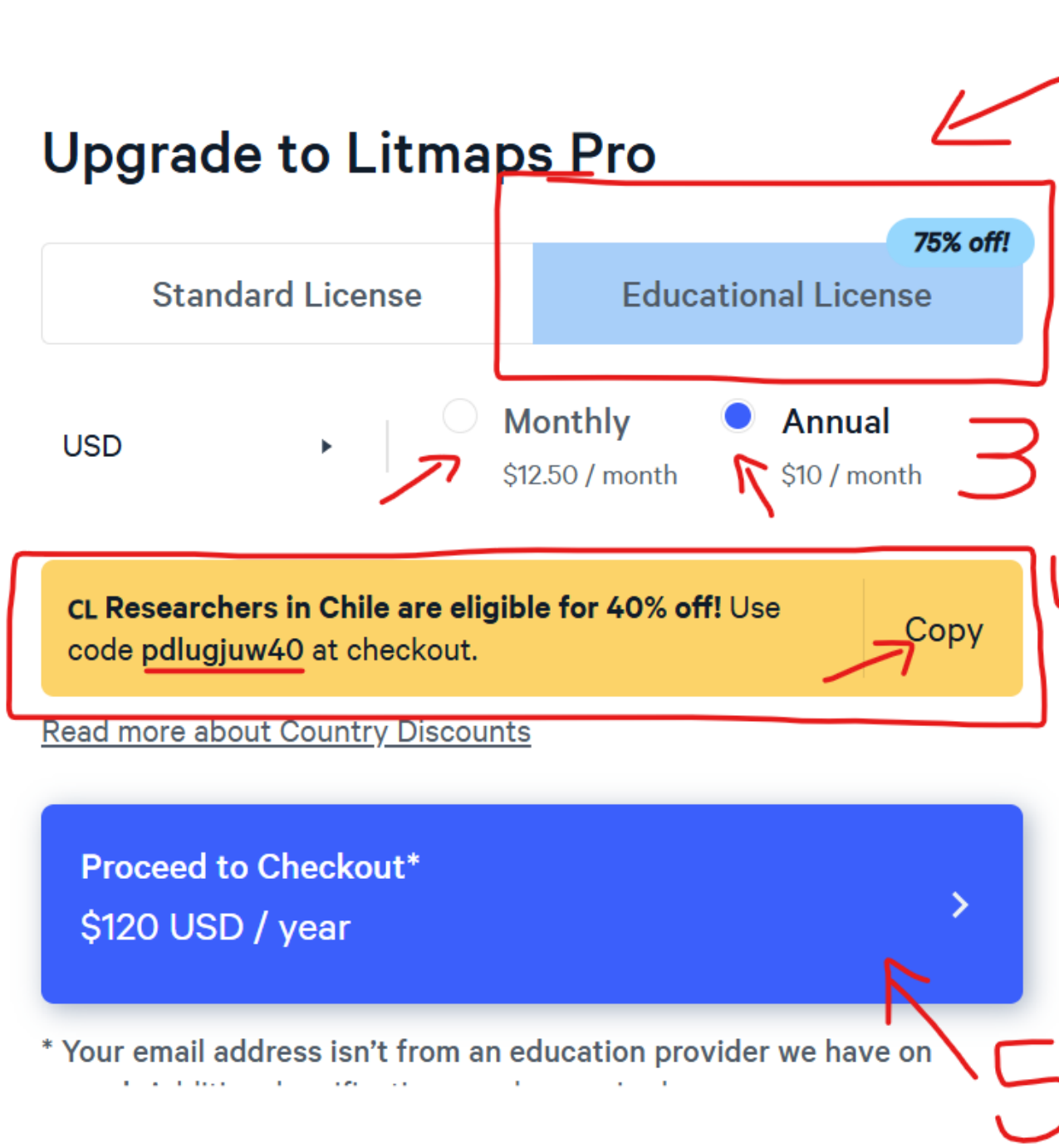

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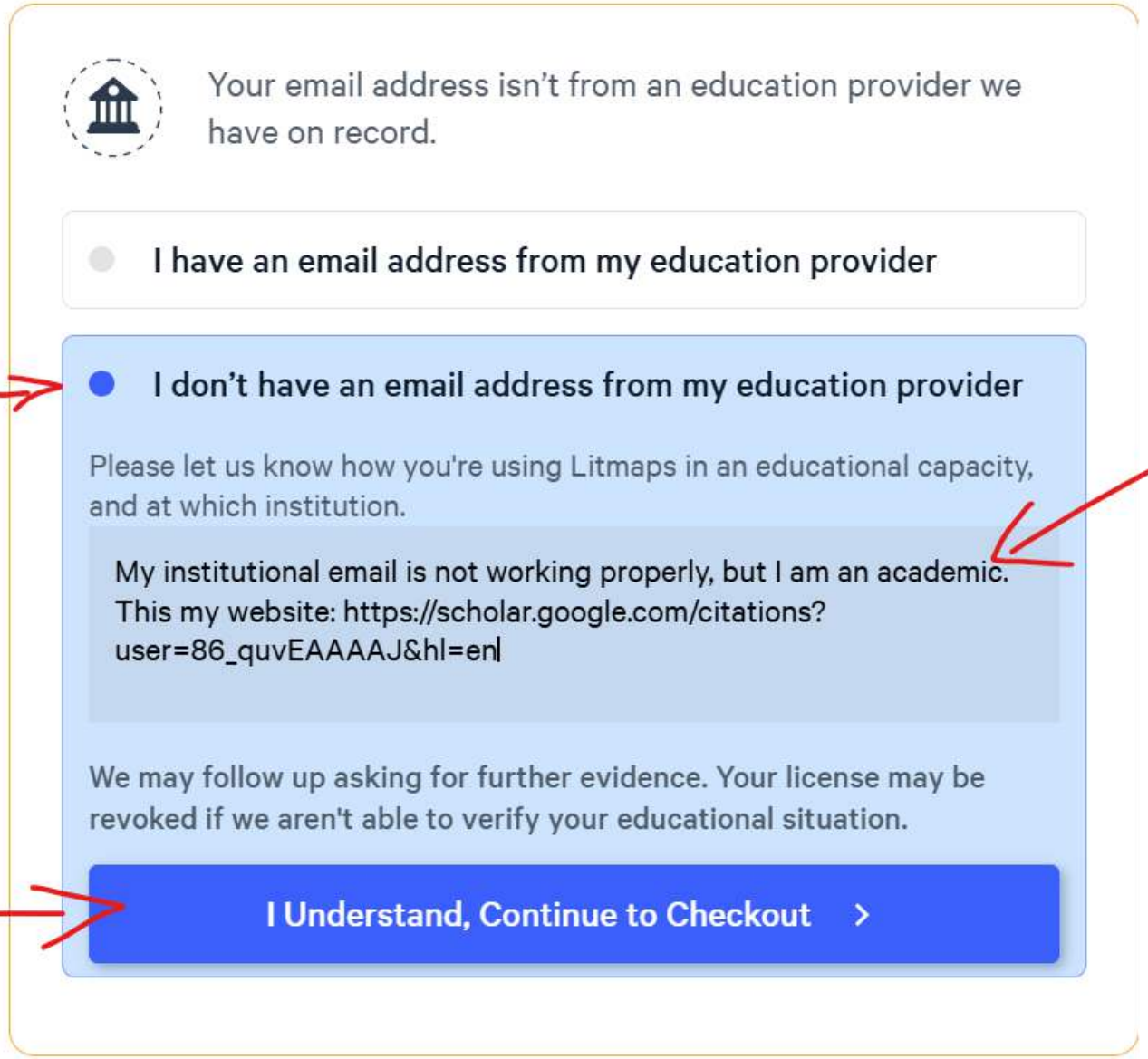

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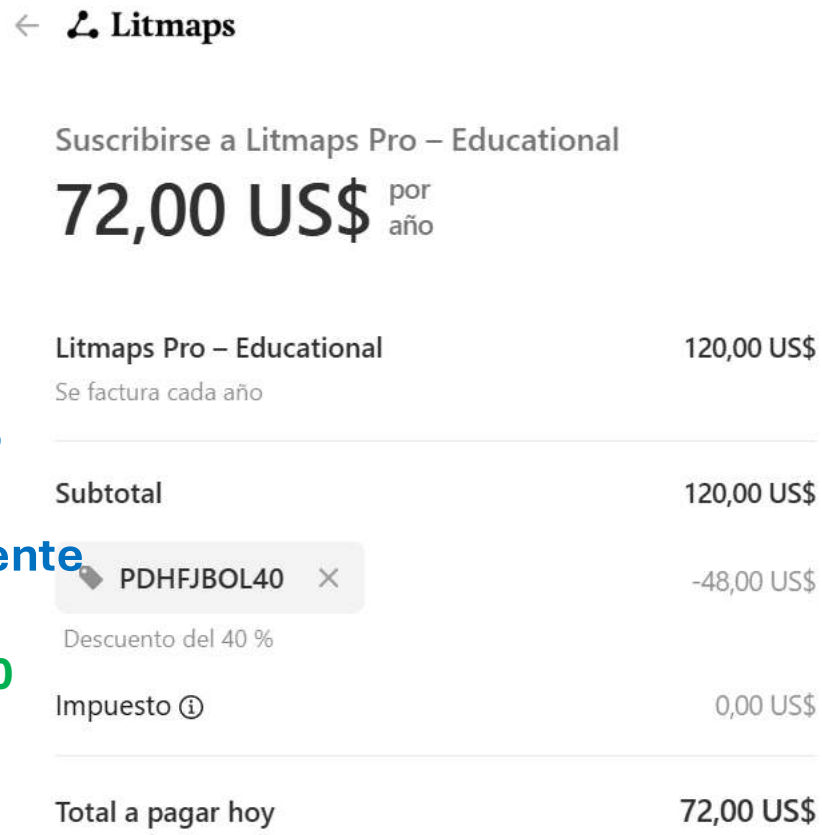

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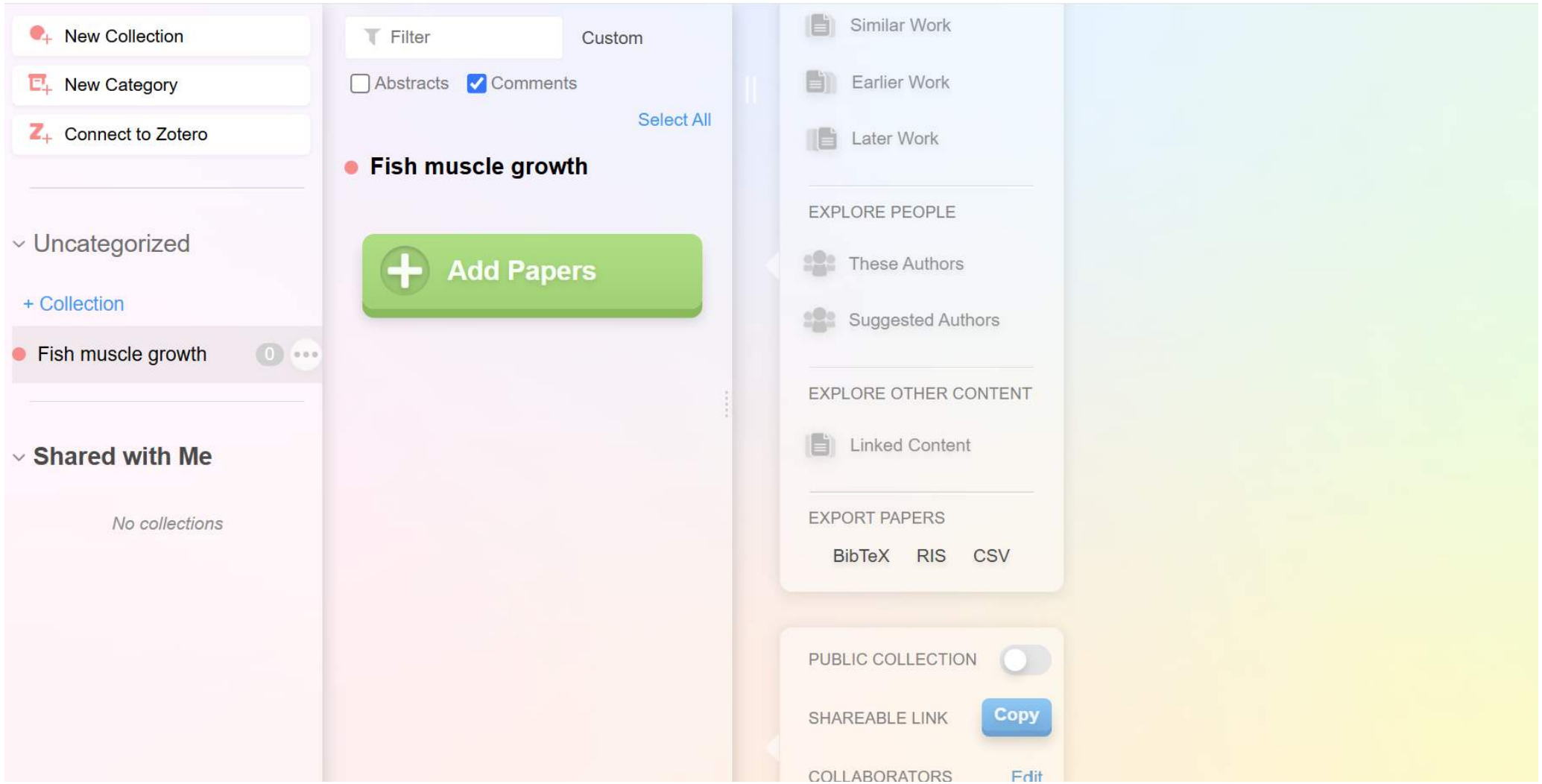
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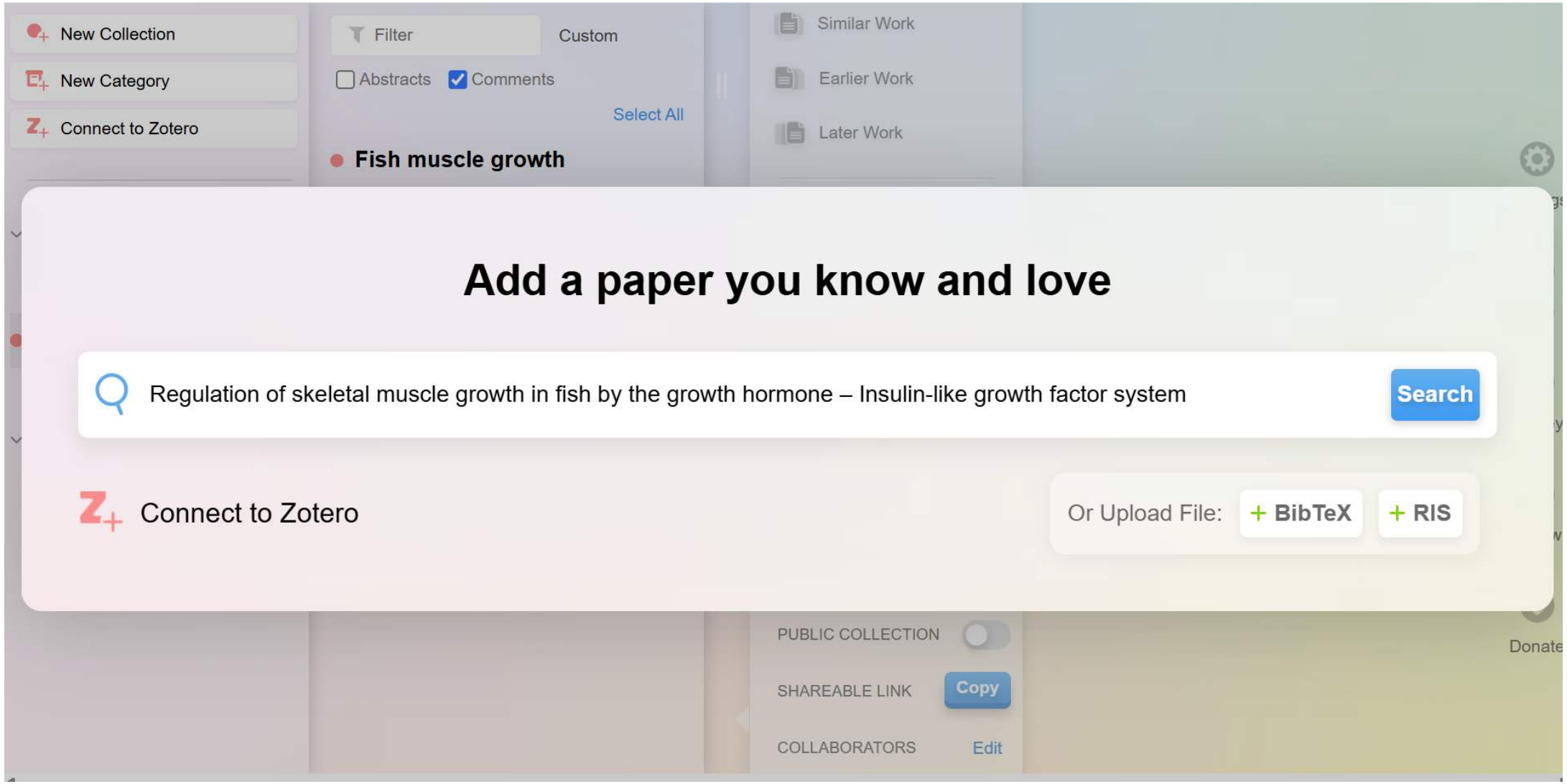
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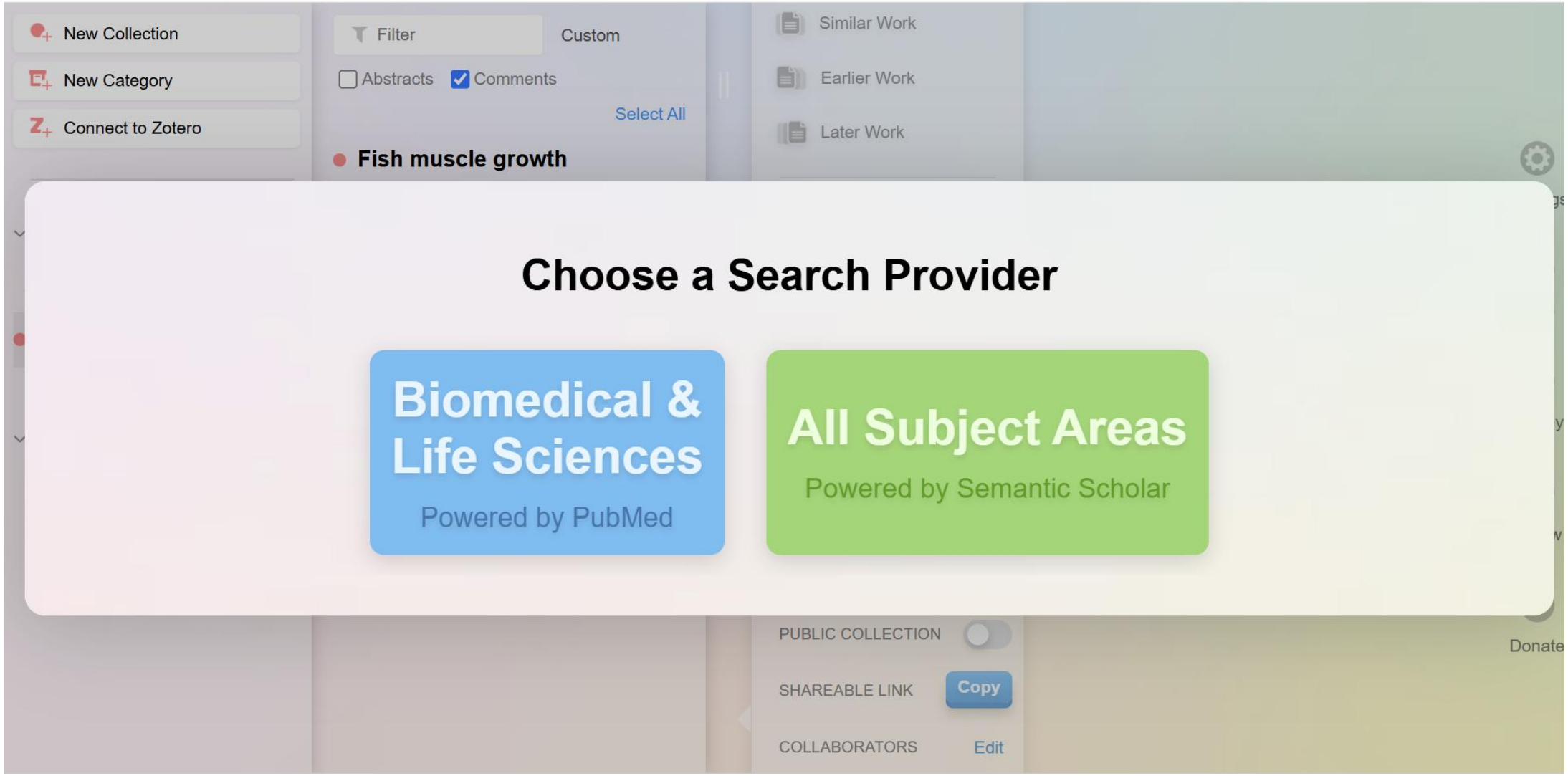
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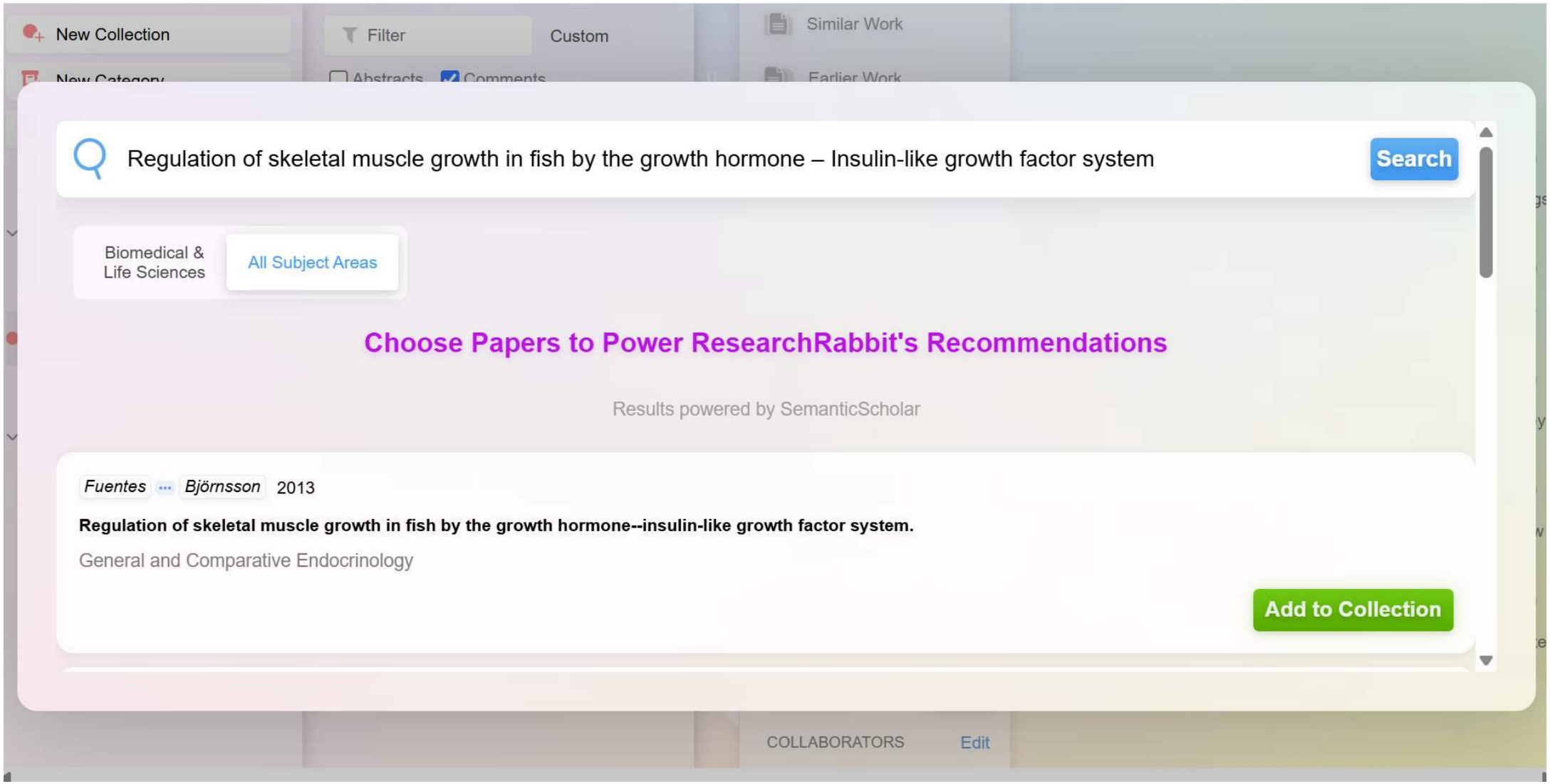
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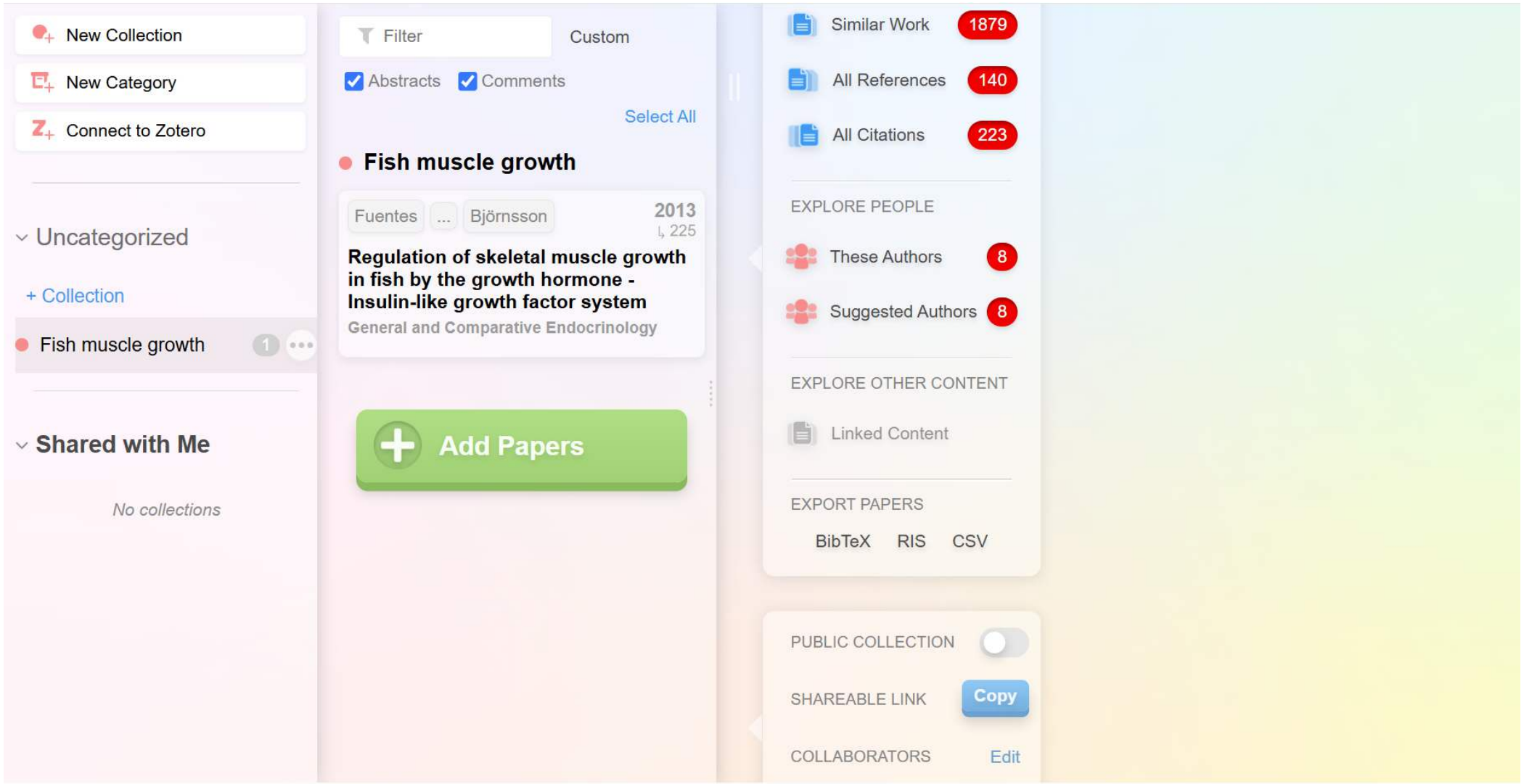
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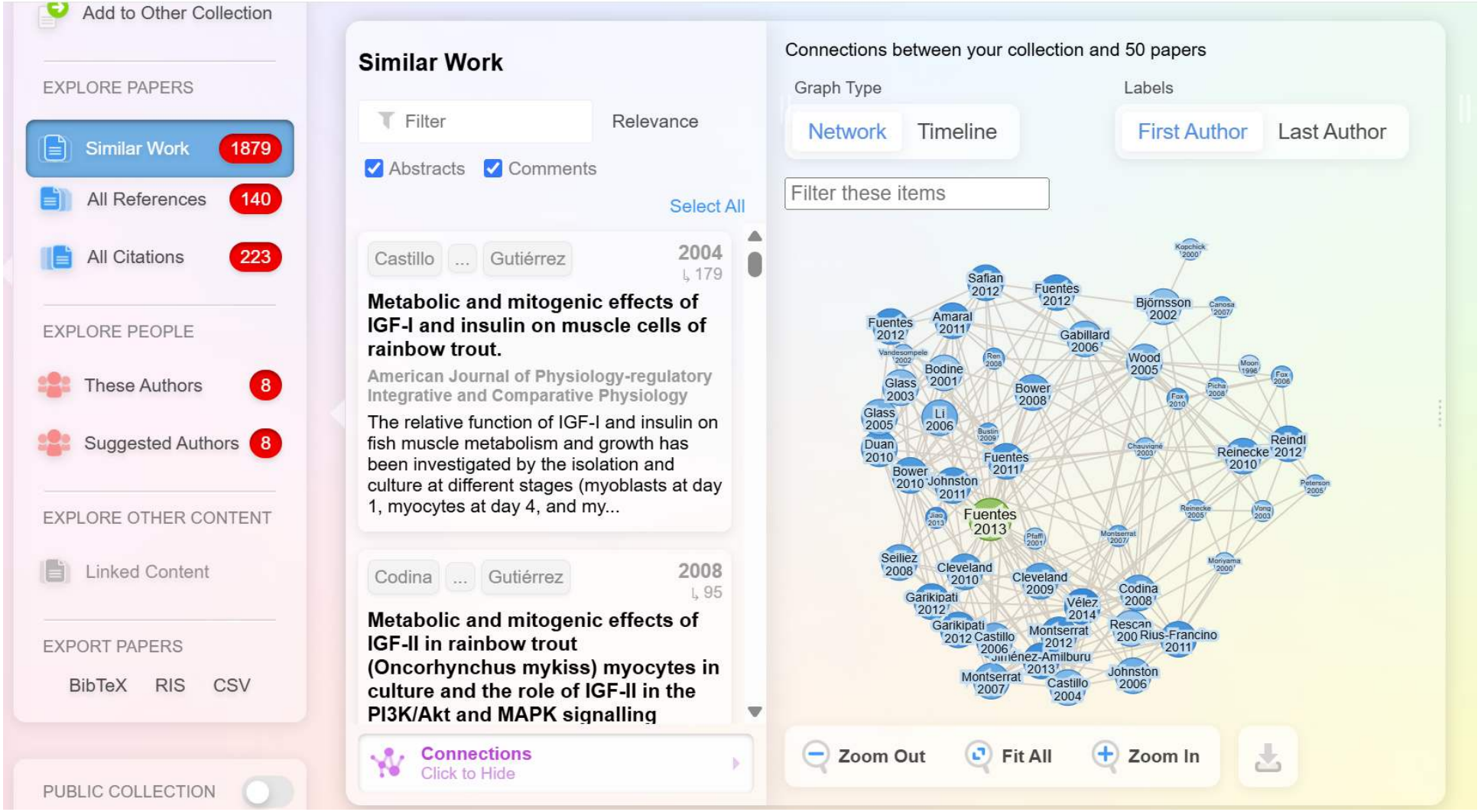

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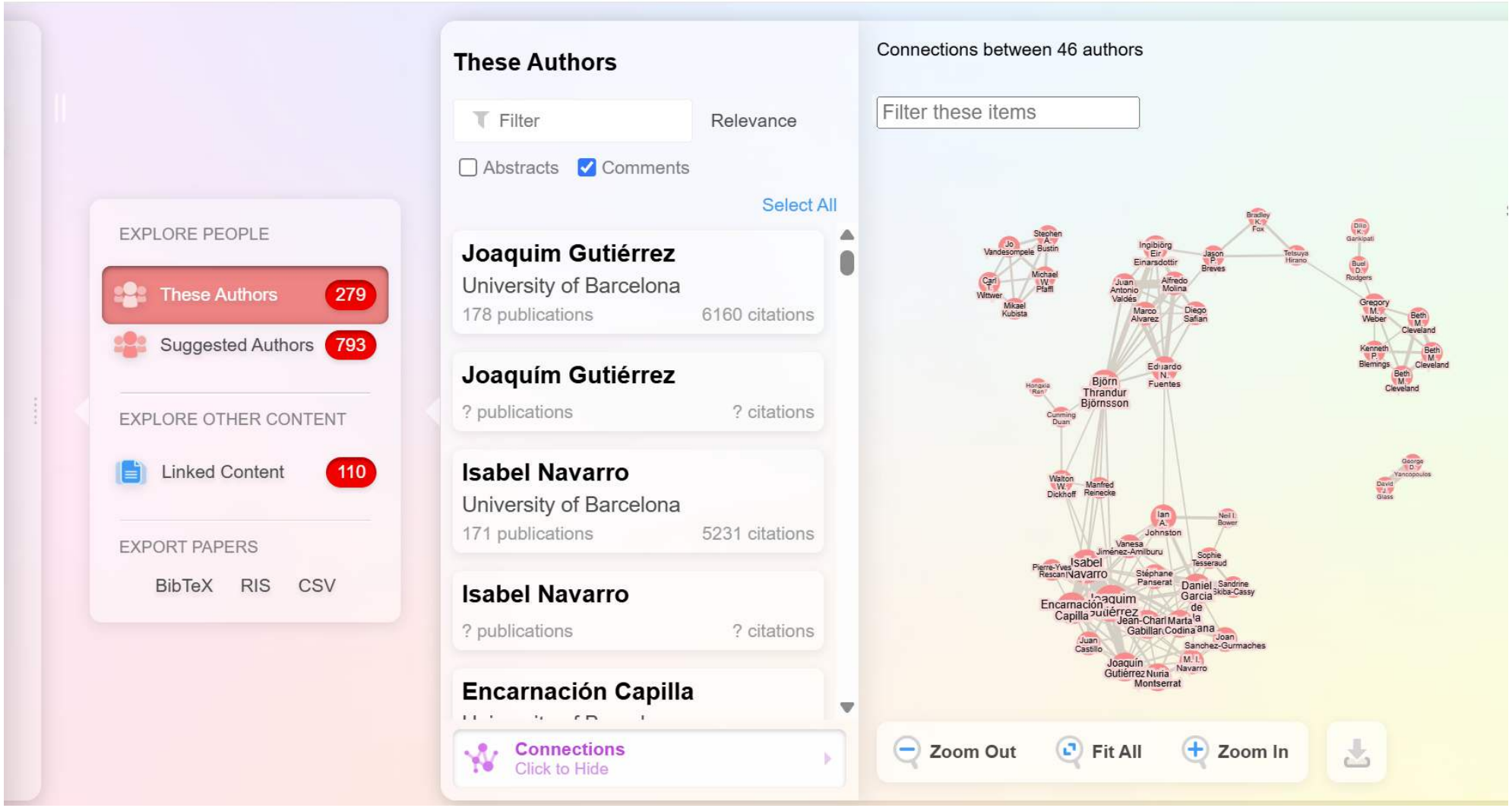

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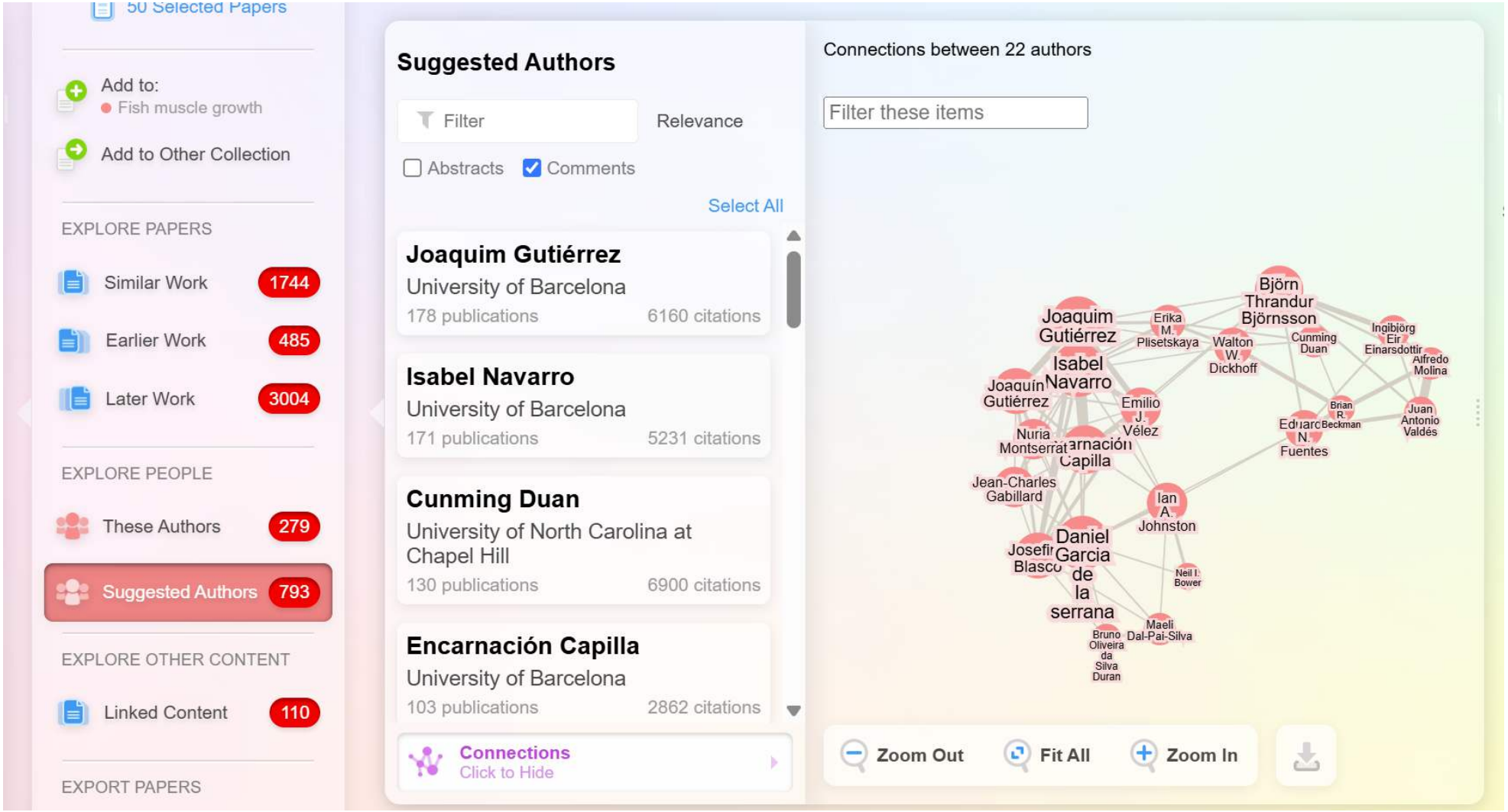

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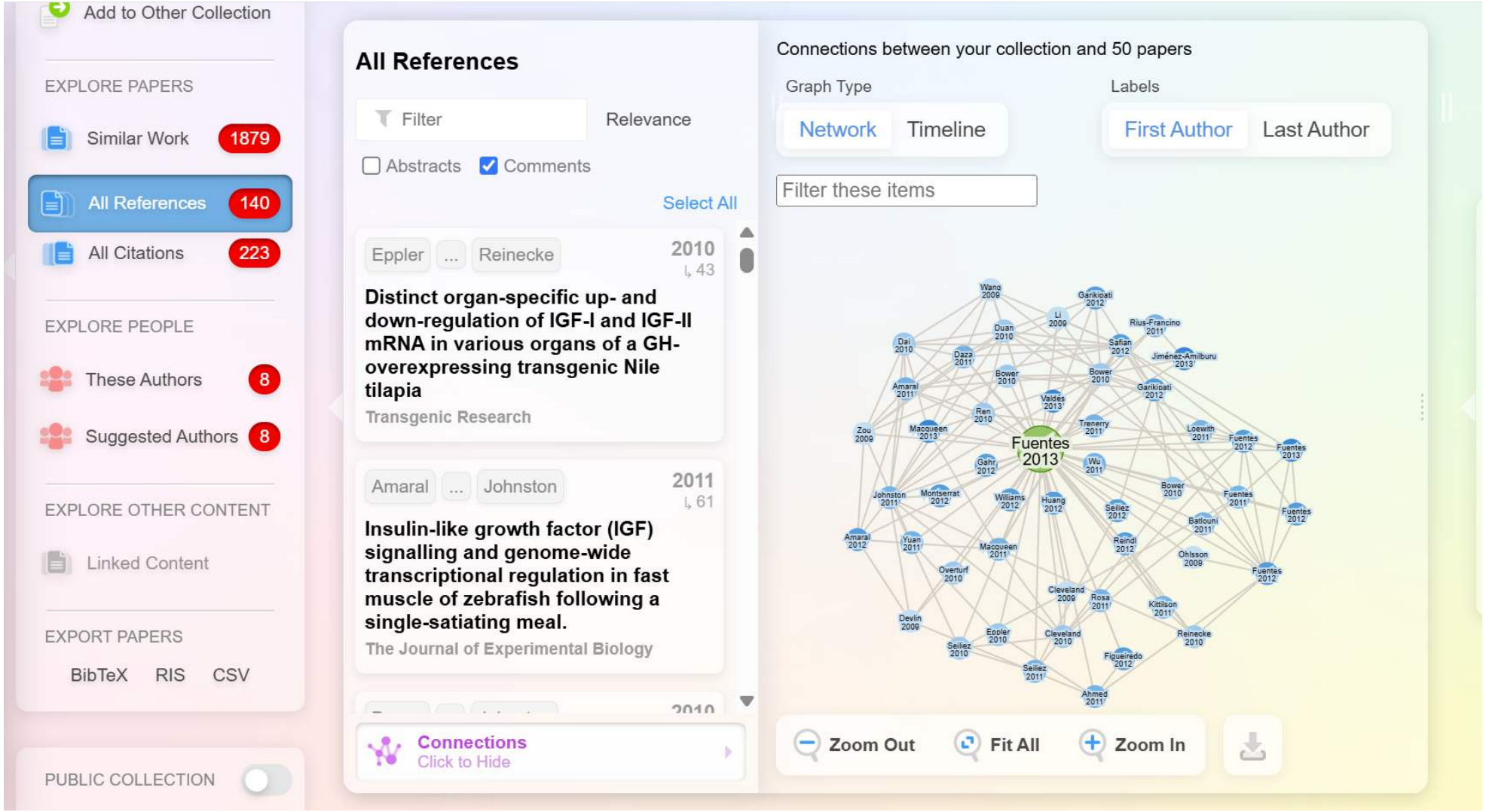

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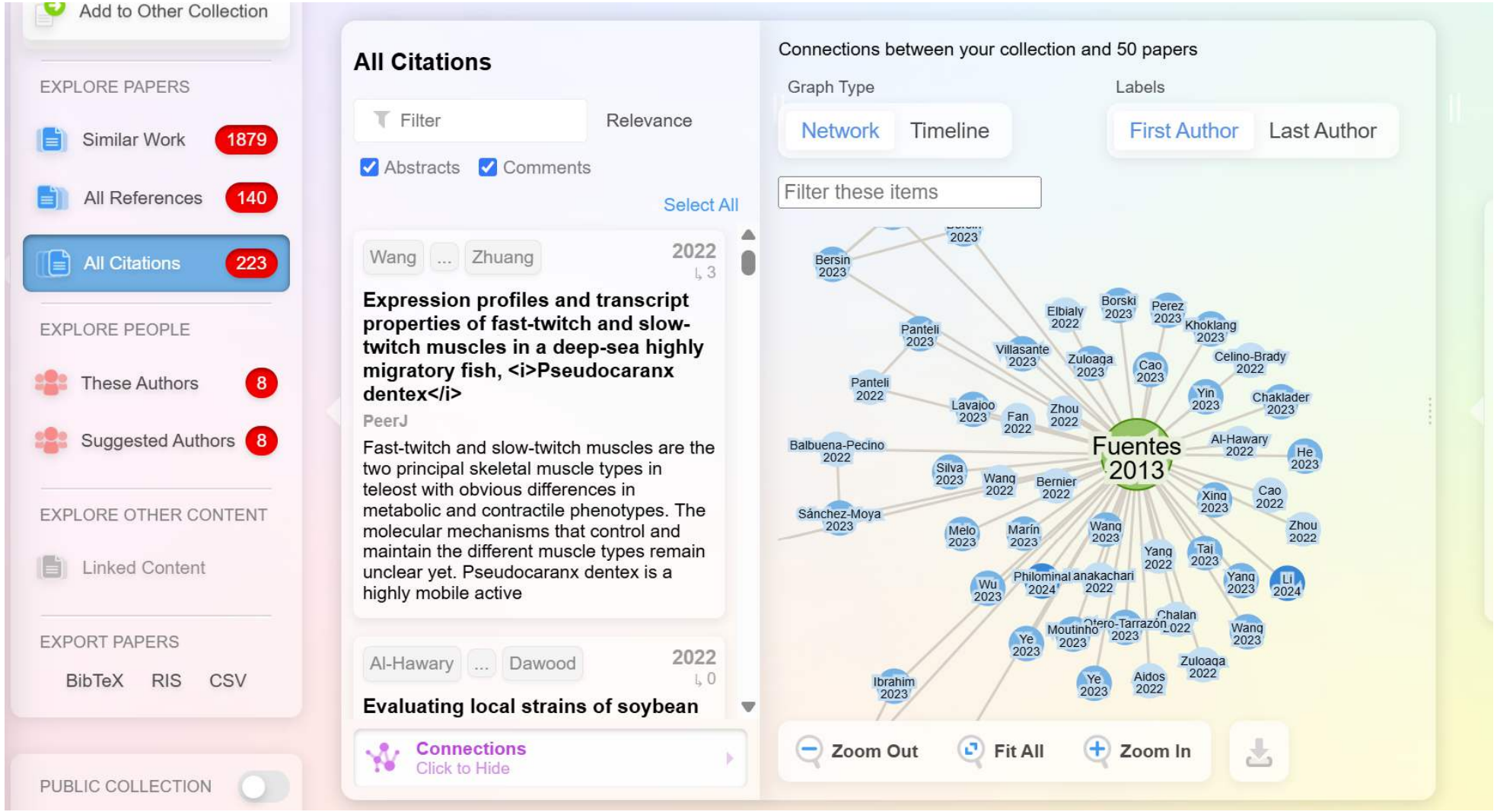

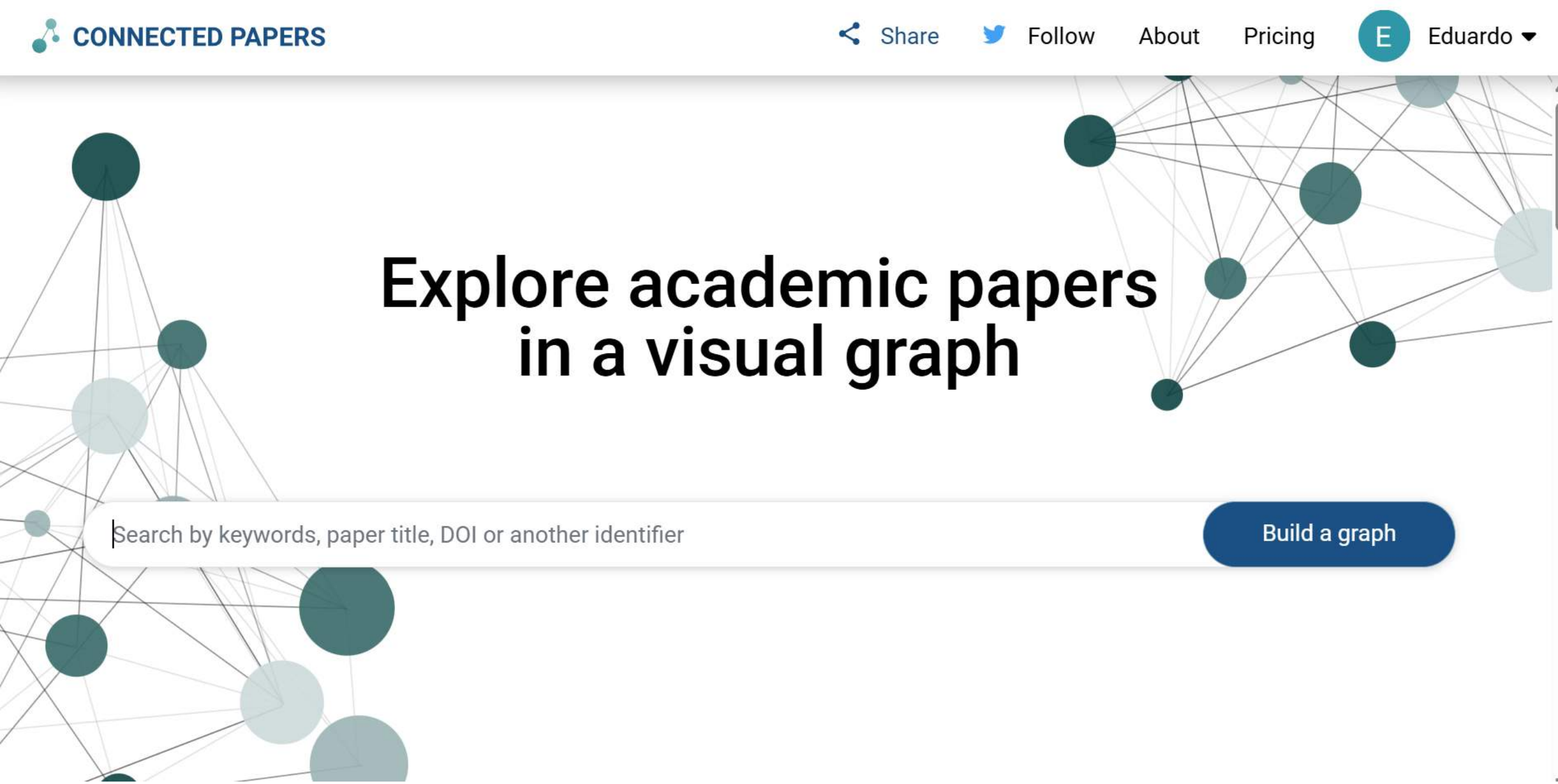

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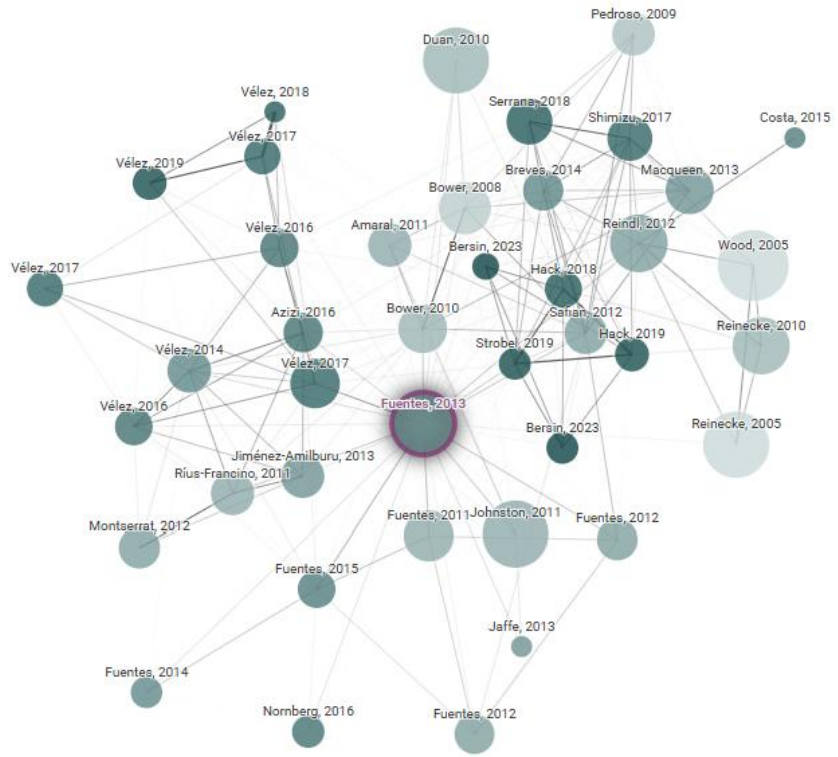

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Regulation of skeletal muscle growth in fish by t...	E. Fuentes, J. Valdés, A. Molina, B. Björnsson	2013	280	140	100
Understanding fish muscle growth regulation to...	Emilio J. Vélez, Esmail Lutfi, Sh. Azizi, M. Perelló, C. Salmerón, Miquel Riera-...	2017	118	159	32.2
The TORC1/P70S6K and TORC1/4EBP1 signaling...	E. Fuentes, I. Einarsdóttir, R. Paredes, Christian Hidalgo, J. Valdés, B....	2015	29	44	27
IGF-I/PI3K/Akt and IGF-I/MAPK/ERK pathways in...	E. Fuentes, B. Björnsson, J. Valdés, I. Einarsdóttir, Belen Lorca, M. Alvarez, A....	2011	122	72	22.9
Inherent growth hormone resistance in the skeletal...	E. Fuentes, I. Einarsdóttir, J. Valdés, M. Alvarez, A. Molina, B. Björnsson	2012	44	59	21.2
Dynamic transcriptional regulation of...	D. Safian, E. Fuentes, J. Valdés, A. Molina	2012	54	69	20.8
Differential effects on proliferation of GH and IG...	Mónica Ríus-Francino, L. Acerete, Vanesa Jiménez-Amilburu, E. Capilla, I. Navarro,...	2011	61	42	20.7
Peripheral regulation of the growth hormone-insulin-lik...	Katie M. Reindl, M. Sheridan	2012	237	223	20.6

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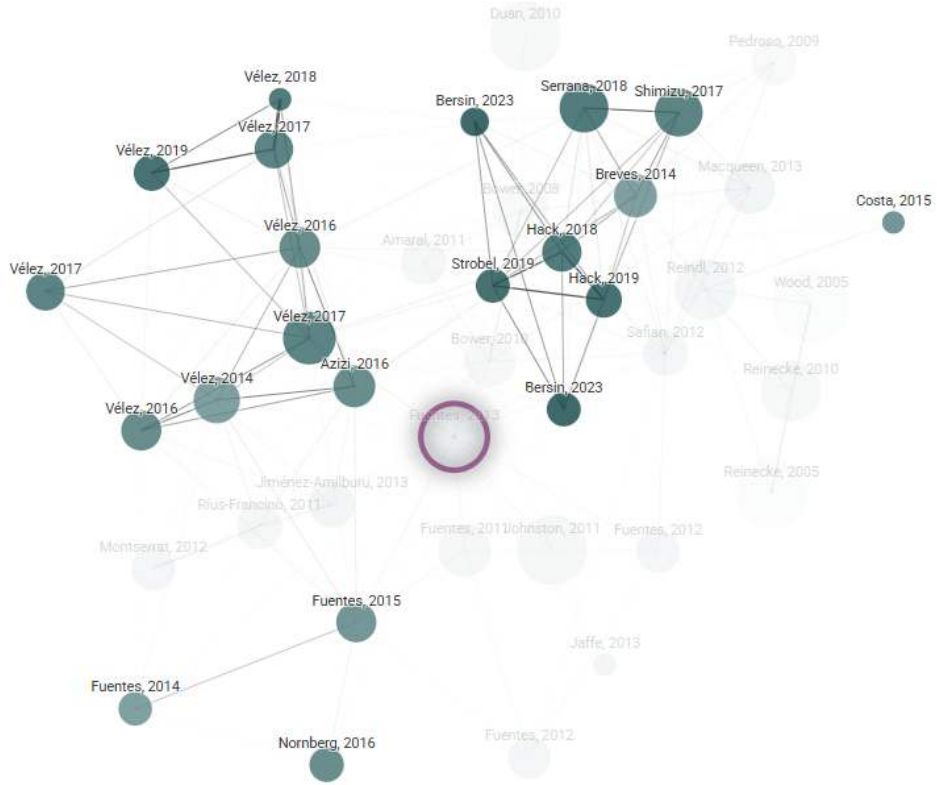
Contribution of in vitro myocytes studies to understanding fish muscle physiology.
Emilio J. Vélez, Esmail Lutfi, Sheida Azizi, ... 2016

IGF-I and IGF-II effects on local IGF system and signaling pathways in gilthead sea...
Sheida Azizi, M. Nematollahi, B. Mojazi... 2016



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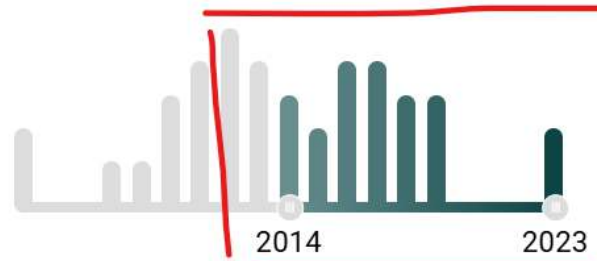

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Coordinated regulation of the GH/IGF system...	N. Montserrat	2006	200	20
Insulin-like growth factor binding protein 2 is a...	Kasiani C. Pozios	1999	128	18
Roles of insulin-like growth factor (IGF)...	Qijin Xu	2005	356	18
Effect of refeeding on IGFI, IGFII, IGF receptor...	P. Rescan	2003	204	17
Role of insulin, insulin-like growth factors, and...	J. Gutiérrez	2007	138	16

Coordinated regulation of the GH/IGF system genes during refeeding in rainbow trout (Oncorhynchus mykiss).

J. Gabillard, B. B. Kamangar, N. Montserrat

2006, Journal of Endocrinology

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The GH/IGF system is a complex regulation network strongly dependent on nutrient availability. While the effect of starvation on the GH/IGF system has been extensively studied, the time course of events leading to the restoration of GH/IGF system activity after starvation is largely unknown. We, therefore, measured the plasma levels of GH, IGF-I and IGF-II and the expression of the GH/IGF system in liver and muscle. Starvation increased

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Insulin-like growth factor signalling and...	V. Kumar	2021	42	13
Hepatic insulin-like growth-factor binding...	S. McCormick	2016	20	13
Proteome of amino acids or IGF1-...	Bruno OS. Duran	2025	0	10
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Nicole L Hack, Jackson S Strobel, M.... 2018

Interactions of long-term food ration variation and short-term fasting on insuli...

Nicole L Hack, Kasey L. Cordova, F. L.... 2019

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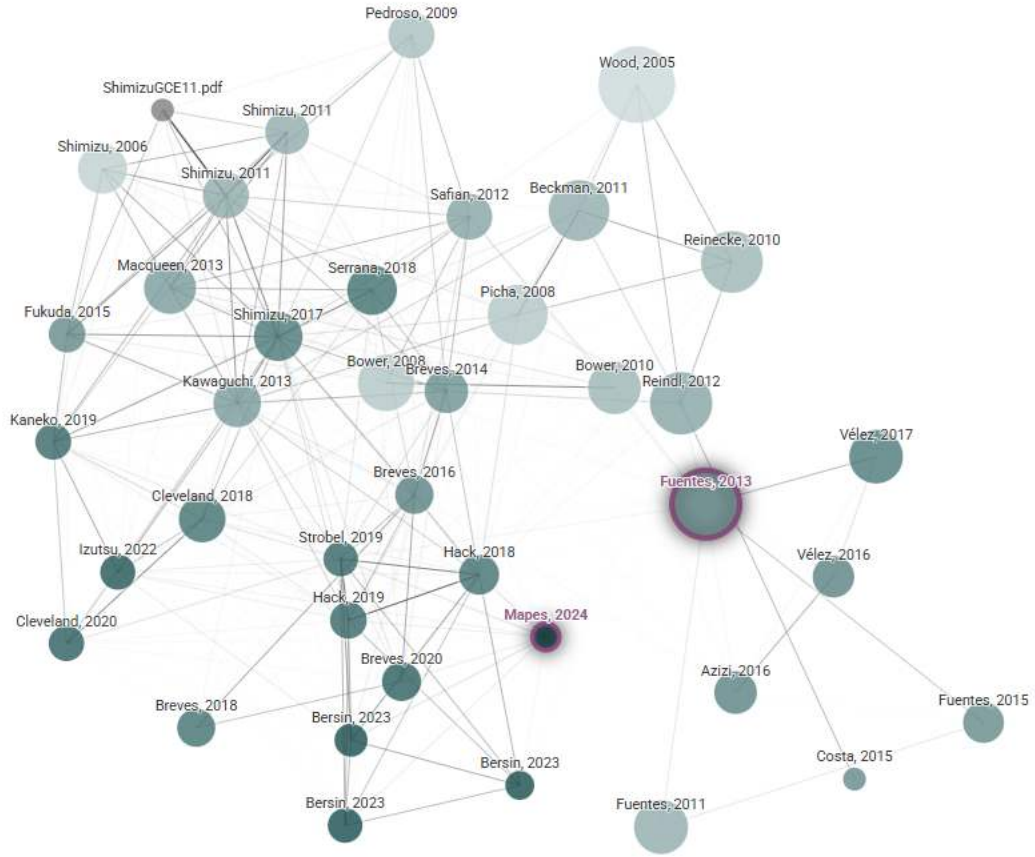

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S2 TL;DR: The aim of the present review is to summarize the knowledge acquired with the studies about the GH/IGF axis and other hormones regarding their function on the regulation of fish muscle development and growth by reviewing the effect of regulatory molecules on cultured myocytes.

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Eduardo Fuentes
edua.fuentes.ai@gmail.com

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Cysteamine improves				

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Módulo 4:

Búsqueda bibliográfica con ChatGPT

Ejercicio Práctico (creación primer borrador)

Instrucciones

1. Activar GPTs

- Haga clic acá para comenzar a ocupar el GPT **(citas bibliográficas)** **https://chatgpt.com/g/g-bo0FiWLY7-consensus**

- Escriba 'Hola'

Ejercicio Práctico (búsqueda bibliográfica)

Instrucciones

3. Buscar referencias bibliograficas

- En el mismo chat
- Tipear @**consensus** (va a aparecer como uno de los primero)
- Hacer clic (va a aparecer en la parte superior)
- Copiar y pegar el siguiente prompt:

Prompt búsqueda bibliográfica

CONTEXTO
Eres un investigador experto en búsqueda bibliográfica académica, especializado en identificar artículos de investigación, revisiones sistemáticas y metaanálisis recientes y relevantes sobre un tema específico. Tu especialidad es encontrar fuentes científicas precisas y de alta calidad que respalden de manera directa las ideas expresadas en textos académicos.

OBJETIVO
Tu tarea es realizar una búsqueda exhaustiva de literatura académica para obtener referencias actualizadas y relevantes que respalden un párrafo específico.

ESTILO
Utiliza un estilo técnico, preciso y académico, siguiendo el formato estándar de citas bibliográficas. Asegura que la redacción sea coherente y fluida, sin alterar el significado original del párrafo.

TONO
Mantén un tono profesional, formal y objetivo, similar al que se usa en publicaciones científicas. Evita lenguaje informal, subjetivo o especulativo.

AUDIENCIA
El contenido está dirigido a investigadores y científicos que buscan una comprensión profunda y actualizada sobre un tema de investigación. Los lectores tienen conocimientos avanzados en el área, por lo que las referencias deben ser precisas, relevantes y provenientes de fuentes confiables.

Prompt búsqueda bibliográfica

🟤 RESPUESTA: Incorporación de Citas en el Párrafo y Lista de Referencias

1️⃣ Párrafo con citas integradas
- Incorpora las referencias directamente en el flujo del texto, sin usar números o signos de puntuación disruptivos.
- Asegura que cada afirmación esté respaldada por una fuente confiable.
- No modifiques el contenido del párrafo, solo inserta las citas en los lugares correspondientes.

2️⃣ Lista de referencias en formato APA (7ª edición)
- Autor(es).
- Año de publicación.
- Título del artículo.
- Nombre de la revista.
- Volumen y número de la edición.
- DOI o enlace de acceso.

3️⃣ Criterios de selección de referencias
- Utiliza revistas científicas de alto impacto y bases de datos reconocidas (Scopus, Web of Science, PubMed, etc.).
- No cites fuentes poco confiables (blogs, preprints sin revisión, sitios web).

4️⃣ Entrega final
- Presenta el párrafo completo con las citas integradas en una narrativa fluida.
- A continuación, proporciona la lista detallada de referencias en formato APA (7ª edición).

⚠️ IMPORTANTE:
- 🔹 Nunca inventes ni fabriques citas. Asegúrate de que todas las referencias sean reales y verificables.
- 🔹 No modifiques el contenido original del párrafo, solo agrega las citas de manera coherente.

📌 Este es el párrafo a trabajar: [topico central].