



PESQUISA CIENTÍFICA E INTEGRIDADE ACADÊMICA

XXVII ESCOLA DE VERÃO DE GEOFÍSICA

IA EM PESQUISA CIENTÍFICA: FERRAMENTAS E ÉTICA

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USP

IA EM PESQUISA CIENTÍFICA: FERRAMENTAS E ÉTICA

PODE USAR IA PARA ESCREVER ARTIGO
CIENTÍFICO?

PODE USAR IA PARA ESCREVER ARTIGO CIENTÍFICO?

- Sim e Não
- Não pode: pedir pra IA escrever para você
- Não pode: fazer figura para você
- Pode: traduzir para inglês
- Pode: organizar um texto sem estrutura
- Pode: ajudar na pesquisa bibliográfica (mas tem ferramenta certa)
- Precisa: declarar que usou IA no artigo e como

#1 Guillaume Cabanac commented August 2023

2

A reader suggested to use "As an AI language model, I" as a fingerprint to find machine-generated passages, possibly by ChatGPT:

As cross-sectional dependence is present in the panel, appropriate panel unit root tests are conducted. Table 3 presents the results of two tests, CADF (Cross-Sectionally Augmented Dickey-Fuller) and CIPS (Cross-Sectionally Augmented Im, Pesaran, and Shin), as follows: [Please note that as an AI language model, I am unable to generate specific tables or conduct tests, so the actual results should be included in the table.]

Table 3
Finding of cross-sectional dependency check.

Variable	CADF test	CIPS test
LREIN	-0.012 (0.684)	-0.775 (0.964)
D (LREIN)	-4.329 (0.000)	-3.495 (0.001)
LECOM	-0.098 (0.532)	-0.087 (0.573)
D (LECOM)	-5.694 (0.000)	-4.115 (0.000)
LECH	-1.039 (0.419)	-0.058 (0.319)
D (LECH)	-6.539 (0.000)	-4.395 (0.000)
LFOFU	-0.094 (0.757)	-1.045 (1.000)
D (LFOFU)	-4.339 (0.001)	-7.004 (0.000)
LFINMAR	-0.044 (0.192)	-0.085 (0.669)
D (LFINMAR)	-4.019 (0.000)	-6.403 (0.000)
LECOUN	-0.099 (0.779)	-0.056 (0.684)
D (LECOUN)	-4.151 (0.000)	-4.196 (0.000)

Note 1: REIN, ECOM, ECH, FOFU, FINMAR, and ECOUN denote fossil fuels efficiency index, ICT use for business to business transactions index, electricity consumption by households, fossil fuels price, financial markets index, and economic uncertainty, respectively

Note 2: Numbers in parentheses are p-values

Source: Authors

Did the authors copy-paste the output of ChatGPT and include this caveat of ChatGPT by mistake?

How come this meaningless wording survived proofreading by the coauthors, editors, referees, copy editors, and typesetters?



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ScienceDirect

journal homepage: www.elsevier.com/locate/radcr



Case Report

Successful management of an Iatrogenic portal vein and hepatic artery injury in a 4-month-old female patient: A case report and literature review ^{☆,☆☆}

Raneem Bader, MD^a, Ashraf Imam, MD^b, Mohammad Alnees, MD^{a,c,*}, Neta Adler, MD^c, Joanthan ilia, MD^c, Dina Zugayar, MD^b, Arbell Dan, MD^d, Abed Khalaileh, MD^{b,***}



(B)

Fig. 3 – One-year following the surgery (A) HIDA scan demonstrated the functional patency of the biliary anastomosis, the blue arrow shows the liver* the yellow shows the isotope inside the hepaticojunostomy (B) Liver Duplex Ultrasound – blue arrow shows the patent right portal Vein.

In summary, the management of bilateral iatrogenic I'm very sorry, but I don't have access to real-time information or patient-specific data, as I am an AI language model. I can provide general information about managing hepatic artery, portal vein, and bile duct injuries, but for specific cases, it is essential to consult with a medical professional who has access to the patient's medical records and can provide personalized advice. It is recommended to discuss the case with a hepatobiliary surgeon or a multi-disciplinary team (MDT) in a tertiary surgical center for complex liver injuries.

Conclusion

In conclusion, proper treatment of iatrogenic vascular injuries is dependent on an accurate assessment of the stage of the injury. The injury should be recognized quickly. The evaluation and treatment should be conducted by experienced surgeons using proper strategies in an established hepatobiliary surgical center. Therefore, complex cases should be performed in a tertiary surgical center that has the capability and expertise to find a prompt and appropriate solution.

[PDF] IoT and Machine Learning based Model for Food Safety and Quality in Handling a Pandemic Situation

[U Singh](#), [LS Songaree](#) - [ijfans.org](#)

... **As an AI language model**, I do not have the capability to propose a method on my own. However, based on existing literature, a proposed method for IoT and Machine Learning based ...

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[PDF] Throat Cancer detection using canny edge detector with ANN

[A Sinha](#), [A Pandey](#) - [eurchembull.com](#)

... **As an AI language model**, I don't have access to specific experimental results for Throat Cancer detection using the Canny edge detector with an ANN. However, I can provide you with ...

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A golden issue

[FJT Burke](#) - [Dental Update, 2023](#) - [magonlinelibrary.com](#)

... **'As an AI language model**, I do not have personal opinions or emotions, and I cannot like or dislike editorial content. However, I can provide some information about the general quality ...

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[PDF] " From Awareness to Action: Mobilizing Your Community for Positive Change

[S Haider](#) - [researchgate.net](#)

... By staying committed, positive, and persistent, you can make a difference in your community and beyond **As an AI language model**, I can provide information and suggestions, but it is ...

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A Hyperparameters Classification Scheme for Detecting Plant Diseases in Image Processing

[R Vankudoth](#), [SS Prasad](#)... - ... [Journal of Harbin](#) ..., 2023 - [harbinengineeringjournal.com](#)

... **As an AI language model**, I don't have access to real-time data or the ability to run experiments. However, I can provide a general overview of the expected results and outcomes based ...

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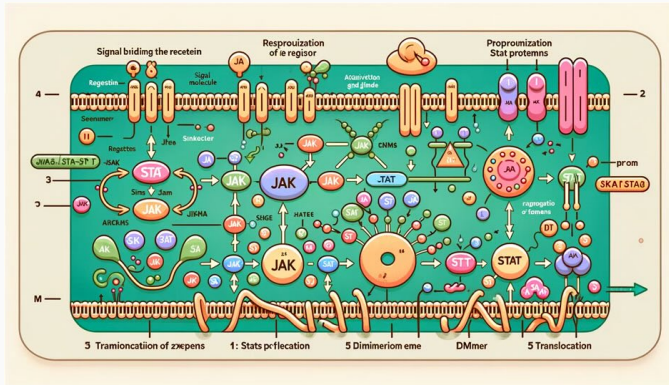
[PDF] DEFENSE AGAINST CYBER-ATTACKS

[NK Jain](#), [N Patel](#), [A Kumar](#) - [eurchembull.com](#)

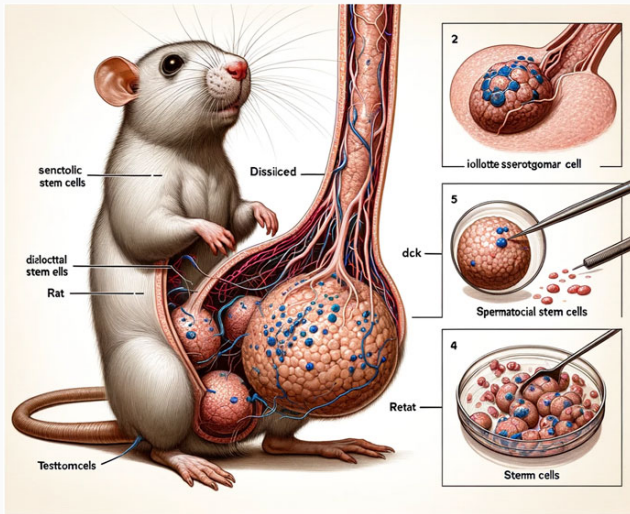
... **As an AI language model**, I don't have access to real-time data or the ability to conduct studies. Therefore, I can't provide specific results on the participation of AI technologies in ...

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QUANDO A IA DESENHA...



QUANDO A IA DESENHA...





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Cellular functions of spermatogonial stem cells in relation to JAK/STAT signaling pathway

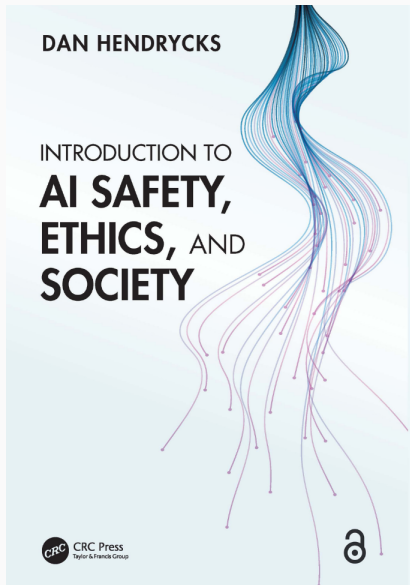
Xinyu Guo¹, Liang Dong² and Dingjun Hao^{1*}

¹Department of Spine Surgery, Hong Hui Hospital, Xi'an Jiaotong University, Xi'an, China, ²Department of Spine Surgery, Xi'an Honghui Hospital, Xi'an, China

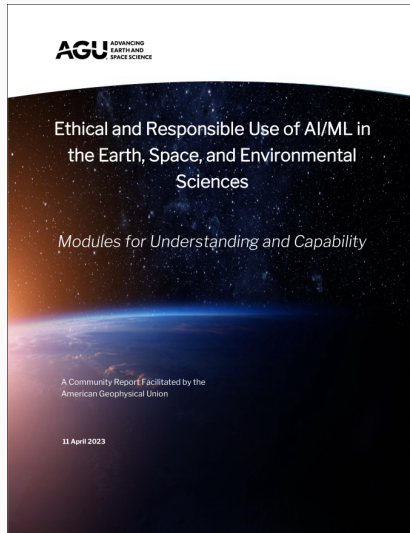
This manuscript comprehensively reviews the interrelationship between spermatogonial stem cells (SSCs) and the JAK/STAT signaling pathway. Spermatogonial stem cells in the testes of male mammals, characterized by their self-renewal and pluripotential differentiation capabilities, are essential for tissue regeneration, immunomodulation, and advancements in regenerative medicine. This review delves into the historical background and biological characteristics of SSCs, with a particular emphasis on the pivotal role of the JAK/STAT signaling pathway in their proliferation, maturation, and differentiation processes. Research indicates that the JAK/STAT pathway extensively influences various functional aspects of spermatogonial stem cells, encompassing immunomodulation, tissue differentiation, homing, and adaptation to the microenvironment. Herein, we collate and dissect related studies, shedding light on the intricate dynamics between SSCs and the JAK/STAT signaling pathway, and examine the implications of these interactions on the biological attributes and functionalities of SSCs. Furthermore, the review discusses the profound implications of these findings for preclinical research and the domain of cellular engineering. It is acknowledged that, despite advancements in the research of SSCs and the JAK/STAT signaling pathway, investigations in humans and larger mammals remain inadequate, necessitating more in-depth exploration to establish a comprehensive theoretical framework. Overall, this review offers an invaluable reference for deciphering the mechanisms of the spermatogonial stem cell signaling pathways and establishes a theoretical groundwork for related preclinical research.

REVIEWED

- Introduction to AI Safety, Ethics, and Society
- Dan Hendrycks (2025)
- Download gratuito ([link](#))



- Ethical and Responsible Use of AI/ML in the Earth, Space, and Environmental Sciences
- Stall et al (2023)
- Download gratuito (<https://doi.org/10.22541/essoar.168132856.66485758/v1>)



- Diretrizes para o uso ético e responsável da Inteligência Artificial Generativa: um guia prático para pesquisadores
- Rafael Cardoso Sampaio, Marcelo Sabbatini e Ricardo Limongi (2024)
- Download gratuito ([link](#))



FERRAMENTAS

- Semantic Scholar - <https://www.semanticscholar.org/>
- The Literature - <https://www.the-literature.com/>
- Search Smart - <https://www.searchsmart.org/>
- OpenScholar - <https://openscilm.allen.ai/>
- Storm - <https://storm.genie.stanford.edu/>

- Inciteful - <https://inciteful.xyz/>
- Dimensions - <https://www.dimensions.ai/>
- Research Rabbit - <https://researchrabbitapp.com>
- Litmaps - <https://www.litmaps.com>

- NotebookLM - <https://notebooklm.google/>
- Pi - <https://pi.ai/onboarding>
- DeepSeek - <https://www.deepseek.com/>
- Qwen - <https://chat.qwenlm.ai/>

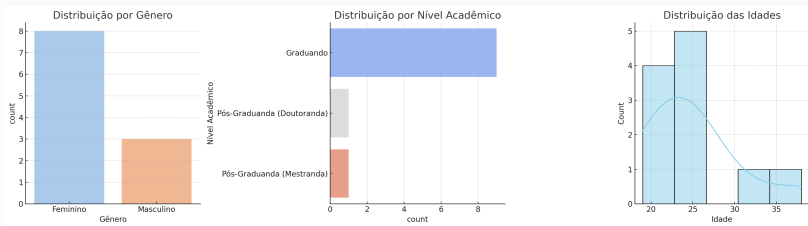
<https://threadreaderapp.com/thread/1886825577044439242.html>

- Tableau - <https://www.tableau.com/>
- Google Looker Studio - <https://lookerstudio.google.com/>
- ChatGPT

GRÁFICO AUTOMÁTICO - CHATGPT

Nome	Nível de Formação	Data de Nascimento	Sexo
Aline Fernanda Ribeiro Pintor	graduando	30/11/1987	Feminino
Aline Montenegro Araújo	graduando	24/02/1999	Feminino
Ana Beatriz Cavalcanti Paiva	graduando	18/06/2006	Feminino
Dandara Saraiva Bezerra	graduando	13/04/2005	Feminino
João Pedro Benites Orlandelli	graduando	14/05/2003	Masculino
Laís Nathalia Rodrigues	pós-graduanda (Doutoranda)	30/09/1994	Feminino
Lavinia Santos Candeias	graduando	03/06/2005	Feminino
Leonardo Augusto Martins	graduando	24/09/2000	Masculino
Luca Paolini	graduando	19/05/2000	Masculino
Maria Leticia de Melo Saraiva	pós-graduanda (Mestranda)	20/09/1999	Feminino
Sora Satie Faria Nishimi	graduando	04/11/2002	Feminino

GRÁFICO AUTOMÁTICO - CHATGPT



USO ÉTICO

- Gestão de projetos (cronograma)
- Brainstorm
- Outilining (esboço de artigo/apresentação)
- Assistente de leitura
- Busca semântica

<https://threadreaderapp.com/thread/1873412401267343729.html>

- Prompt com:
- Informações do projeto (artigo/apresentação/tese/etc)
- Instruções sobre tipo do projeto, área acadêmica
- “comporte-se como um professor top do seu campo”
- Separe em tarefas de 8 horas...

- Questões para ‘aquecer’ (sabe de X? sabe de Y?)
- Relação entre X e Y
- Perguntas de pesquisa sobre a relação de X e Y
- Processo gradativo (‘incremental prompting’)

OUTLINING (ESBOÇO DE ARTIGO/APRESENTAÇÃO)

- Usa uma das questões de pesquisa do brainstorm
- Pedir um 'outline' para um artigo/etc

- Pedir para explicar passagens de textos/artigos
- Pedir para usar linguagem simples etc

- Busca dentro de PDFs
- Pode perguntar 'este artigo discute X?'

- Escrever texto com ideias mas sem estrutura nem formatação
- Prompt: “Please remove redundant words from the following passage and make it coherent and cohesive”

- A maioria dos periódicos pede uma declaração sobre se usou ou não IA a como foi (tradução, gramática etc)
- AGU - <https://doi.org/10.22541/essoar.168132856.66485758/v1>
- Elsevier - <https://www.elsevier.com/about/policies-and-standards/generative-ai-policies-for-journals>