

Billet d'humeur

La détente, oui. Le coma estival, non ! (p. 7)

- 1 Diagnostic de la DNC : comment interpréter les résultats officiels. Hélène Banoun. aimsib.org, 25 janvier 2026.
- 2 Hélène Banoun, « Vaccination des veaux contre la DNC : encore des cafouillages ! », Aimsib.org, 26 mars 2026.
- 3 DNC - un modèle israélien inadapté à nos montagnes : pourquoi exiger 100 % quand 95 % suffisent ? Bonsens.info, 4 mai 2026.
- 4 La Nuova Sardegna, 23 avril 2026, repris par Bonsens.org (opus cit)
- 5 Talma Studio, 2023.
- 6 Hélène Banoun, « Fièvre aphteuse, Clavelée ovine et Variole caprine en Grèce », ResearchGate, mai 2026.

Dossier

Les enzymes, une nouvelle voie thérapeutique ? (p. 9)

- 1 Castell J.V., et al., « Intestinal Absorption of Undegraded Proteins in Men: Presence of Bromelain in Plasma after Oral Intake », *Am J Physiol*, 1997, doi: 10.1152/ajpgi.1997.273.1.G139.
- 2 König J., et al., « Randomized Clinical Trial: Effective Gluten Degradation by Aspergillus Niger-Derived Enzyme in a Complex Meal Setting », *Sci Rep*, 2017, doi: 10.1038/s41598-017-13587-7
- 3 Carillon J., et al., « Dietary Supplementation with a Superoxide Dismutase-Melon Concentrate Reduces Stress, Physical and Mental Fatigue in Healthy People: a Randomised, Double-Blind, Placebo-Controlled Trial », *Nutrients*, 2014, doi: 10.3390/nu6062348.
- 4 Dudašova Petrovičova O., et al., « How Supplementation with SOD-Rich Plant Extract, Combined with Gliadin, Can Affect Oxidative Stress Markers and Zonulin Levels in Exercise-Induced Oxidative Stress », *Metabolites*, 2023, doi: 10.3390/metabo13121200.
- 5 Rasheed Z., « Therapeutic Potentials of Catalase: Mechanisms, Applications, and Future Perspectives », *Int J Health Sci*, 2024, PMID: 38455600.
- 6 Kansakar U., et al., « Exploring the Therapeutic Potential of Bromelain: Applications, Benefits, and Mechanisms », *Nutrients*, 2024, doi: 10.3390/nu16132060.
- 7 Kasemsuk T., et al., « Improved WOMAC Score Following 16-Week Treatment with Bromelain for Knee Osteoarthritis », *Clin Rheumatol*, 2016, doi: 10.1007/s10067-016-3363-1.
- 8 Walker A.F., et al., « Bromelain Reduces Mild Acute Knee Pain and Improves Well-Being in a Dose-Dependent Fashion in an Open Study of Otherwise Healthy Adults », *Phytomedicine*, 2002, doi: 10.1078/094471102321621269.
- 9 Liu S., et al., « Oral Bromelain for the Control of Facial Swelling, Trismus, and Pain After Mandibular Third Molar Surgery: A Systematic Review and Meta-Analysis », *J Oral Maxillofac Surg*, 2019, doi: 10.1016/j.joms.2019.02.044.
- 10 Leelakanok N., et al., « Efficacy and Safety of Bromelain: A Systematic Review and Meta-Analysis », *Nutr Health*, 2023, doi: 10.1177/02601060231173732.
- 11 Ma J.W., et al., « A New Pharmacological Vitreolysis through the Supplement of Mixed Fruit Enzymes for Patients with Ocular Floaters or Vitreous Hemorrhage-Induced Floaters », *J Clin Med*, 2022, doi: 10.3390/jcm11226710.
- 12 Carter, C.J., et al., « Dissolution of Biofilm Secreted by Three Different Strains of Pseudomonas aeruginosa with Bromelain, N-Acetylcysteine, and their Combinations », *Appl Sci*, 2021, doi: 10.3390/app112311388.
- 13 Li X., et al., « Nattokinase Supplementation and Cardiovascular Risk Factors: A Systematic Review and Meta-Analysis of Randomized Controlled Trials », *Rev Cardiovasc Med*, 2023, doi: 10.31083/j.rcm2408234.
- 14 Ren N.N., et al., « A Clinical Study on the Effect of Nattokinase on Carotid Artery Atherosclerosis and Hyperlipidaemia », *Zhonghua Yi Xue Za Zhi*, 2017, doi: 10.3760/cma.j.issn.0376-2491.2017.26.005.
- 15 Chen H., et al., « Effective Management of Atherosclerosis Progress and Hyperlipidemia with Nattokinase: A Clinical Study with 1,062 Participants », *Front Cardiovasc Med*, 2022, doi: 10.3389/fcvm.2022.964977.
- 16 Tanikawa T., et al., « Degradative Effect of Nattokinase on Spike Protein of SARS-CoV-2 », *Molecules*, 2022, doi: 10.3390/molecules27175405.
- 17 Wiyarta E., et al., « Therapeutic Potential of Lumbrokinase in Acute Ischemic Stroke: A Meta-Analysis of Efficacy and Safety », *Ther Clin Risk Manag*, 2025, doi: 10.2147/TCRM.S537232.
- 18 Grabovac V., Bernkop-Schnürch A., « Improvement of the Intestinal Membrane Permeability of Low Molecular Weight Heparin by Complexation with Stem Bromelain », *Int J Pharm*, 2006, doi: 10.1016/j.ijpharm.2006.06.042.
- 19 Bhagat S., Agarwal M., Roy V., « Serratiopeptidase: a Systematic Review of the Existing Evidence », *Int J Surg*, 2013, doi: 10.1016/j.ijssu.2013.01.010.
- 20 Jadhav S.B. et al., « Serratiopeptidase: Insights into the Therapeutic Applications », *Biotechnol Rep*, 2020, doi: 10.1016/j.btre.2020.e00544.
- 21 Sharma C., et al., « Serratiopeptidase, A Serine Protease Anti-Inflammatory, Fibrinolytic, and Mucolytic Drug, Can Be a Useful Adjuvant for Management in COVID-19 », *Front Pharmacol*, 2021, doi: 10.3389/fphar.2021.603997.

Focus

Glycobiome et prostabiome : ces nouvelles sentinelles de votre santé intime (p. 15)

- 1 <https://www.nature.com/articles/s41522-025-00900-w>
- 2 [https://www.gastrojournal.org/article/S0016-5085\(20\)35508-6/fulltext](https://www.gastrojournal.org/article/S0016-5085(20)35508-6/fulltext)
- 3 <https://pubmed.ncbi.nlm.nih.gov/31373365/>
- 4 <https://www.sciencedirect.com/science/article/pii/S2405844024143332>
- 5 <https://www.sciencedirect.com/science/article/pii/S2352304220301070>
- 6 <https://link.springer.com/article/10.1186/s13073-016-0307-y>
- 7 <https://www.sciencedirect.com/science/article/pii/S2287888222000174>
- 8 <https://pmc.ncbi.nlm.nih.gov/articles/PMC4018903/>
- 9 <https://www.frontiersin.org/journals/cellular-and-infection-microbiology/articles/10.3389/fcimb.2020.586667/full>
- 10 <https://pubmed.ncbi.nlm.nih.gov/27342554/>
- 11 https://www.researchgate.net/publication/304495751_The_microbiota_of_breast_tissue_and_its_association_with_tumours

- 12 <https://pubmed.ncbi.nlm.nih.gov/28434677/>
- 13 <https://www.nature.com/articles/s41391-025-01028-w>
- 14 <https://www.mdpi.com/2072-6643/13/2/606>
- 15 <https://aacrjournals.org/cancerres/article/81/14/3890/670230/Diet-Alters-Entero-Mammary-Signaling-to-Regulate?guestAccessKey=>
- 16 <https://www.frontiersin.org/journals/cellular-and-infection-microbiology/articles/10.3389/fcimb.2024.1413266/full>
- 17 <https://pmc.ncbi.nlm.nih.gov/articles/PMC8278537/>
- 18 <https://pmc.ncbi.nlm.nih.gov/articles/PMC6027152/>
- 19 <https://pmc.ncbi.nlm.nih.gov/articles/PMC8405251/>
- 20 <https://pubmed.ncbi.nlm.nih.gov/34083249/>
- 21 <https://pubmed.ncbi.nlm.nih.gov/18539795/>
- 22 <https://pubmed.ncbi.nlm.nih.gov/24610844/>
- 23 <https://www.sciencedirect.com/science/article/abs/pii/S0305737222001396>
- 24 <https://link.springer.com/article/10.1186/s13073-021-00874-2>
- 25 <https://www.frontiersin.org/journals/oncology/articles/10.3389/fonc.2020.00120/full>
- 26 <https://www.sciencedirect.com/science/article/pii/S147655862200015X>
- 27 <https://link.springer.com/article/10.1007/s10549-019-05407-5>
- 28 <https://link.springer.com/article/10.1186/s12866-024-03738-y>
- 29 <https://link.springer.com/article/10.1007/s40588-022-00178-y>
- 30 <https://pmc.ncbi.nlm.nih.gov/articles/PMC10000196/>
- 31 <https://www.frontiersin.org/journals/cellular-and-infection-microbiology/articles/10.3389/fcimb.2025.1562729/full>
- 32 <https://www.frontiersin.org/journals/cellular-and-infection-microbiology/articles/10.3389/fcimb.2024.1431088/full>
- 33 <https://pubmed.ncbi.nlm.nih.gov/29795140/>
- 34 <https://onlinelibrary.wiley.com/doi/abs/10.1002/pros.24675>
- 35 https://www.researchgate.net/publication/400371103_The_gut-prostate_axis_in_benign_prostatic_hyperplasia_systematic_review_of_microbial_dysbiosis_and_pathogenic_mechanisms
- 36 <https://pmc.ncbi.nlm.nih.gov/articles/PMC5198165/>
- 37 <https://pmc.ncbi.nlm.nih.gov/articles/PMC9865985/>
- 38 https://www.researchgate.net/publication/382667114_Male_Tract_Microbiota_and_Male_Infertility
- 39 <https://www.frontiersin.org/journals/cellular-and-infection-microbiology/articles/10.3389/fcimb.2024.1529871/full>
- 40 <https://www.sciencedirect.com/science/article/abs/pii/S2666335X25000801>
- 41 <https://www.frontiersin.org/journals/immunology/articles/10.3389/fimmu.2025.1576679/full>
- 42 <https://pmc.ncbi.nlm.nih.gov/articles/PMC7692270/>
- 43 <https://journals.innovareacademics.in/index.php/jjpps/article/download/40614/24447?inline=1>
- 44 <https://pubmed.ncbi.nlm.nih.gov/16029938/>
- 45 <https://www.mdpi.com/2304-8158/13/22/3647>
- 46 <https://pmc.ncbi.nlm.nih.gov/articles/PMC10795337/>
- 47 <https://pubmed.ncbi.nlm.nih.gov/20737210/>
- 48 <https://pubmed.ncbi.nlm.nih.gov/41709732/>
- 49 <https://pubmed.ncbi.nlm.nih.gov/33848926/>
- 50 <https://europepmc.org/article/pmc/pmc9446441>
- 51 <https://link.springer.com/article/10.1186/1745-6215-13-47>
- 52 <https://www.mdpi.com/2072-6694/16/18/3225>
- 53 <https://www.nature.com/articles/s41467-018-07859-7>
- 54 <https://pubmed.ncbi.nlm.nih.gov/25675359/>
- 55 Attention, l'inuline est un FODMAP, à éviter chez les personnes sensibles
- 56 <https://pmc.ncbi.nlm.nih.gov/articles/PMC9229734/>
- 57 <https://pmc.ncbi.nlm.nih.gov/articles/PMC9960368/>
- 58 <https://www.sciencedirect.com/science/article/abs/pii/S009095562407689X>
- 59 <https://www.nmi.health/sulforaphane-a-review-of-clinical-use-and-efficacy/>
- 60 <https://pmc.ncbi.nlm.nih.gov/articles/PMC4488002/>
- 61 <https://pubmed.ncbi.nlm.nih.gov/23642948/>
- 62 <https://www.sciencedirect.com/science/article/abs/pii/S096007600200273X>
- 63 <https://pubmed.ncbi.nlm.nih.gov/10702603/>

Thérapie

La revanche du C15:0, cet acide gras saturé essentiel (p. 18)

- 1 https://www.wjgnet.com/1949-8462/full/v17/i12/110861.htm?appgw_azwaf_jsc=jllaQIBYNcaNCQvXuspF-T8cXJW3H7vAtxw50TZwPIi85q7mUm-7pK87dBct9h8pf2gc1YL4acTUE3b1fL-NNpFWWvbizGekEByQHGX4M-kj1eSMU-h4X53UU2504iYFdS3TTXftdN9T-FH14jq_Bn2JKNcRt4tzXuZt_PJgbv-t2I3ac8vOxI5LRh-OuJJ9h4gD7SMzL-bsb-101NTZjcFqSoyloBX2d32tqsE9yIIK-KQWmxXFRgd3cDhWSFg_PPvtv-hpoWZ-DUOtn28JA1qvOLNqKETYzfEOJ3Mx-ZaOgk-OWeL0_ju6A1RfUtvsocOEsFp-TAXVpK-Z_hsMYg2lm1Udeg
- 2 <https://www.mdpi.com/2218-1989/14/7/355>
- 3 <https://pubmed.ncbi.nlm.nih.gov/40332352/>
- 4 <https://www.mdpi.com/2072-6643/15/21/4607>
- 5 <https://pmc.ncbi.nlm.nih.gov/articles/PMC10649853/>
- 6 <https://www.ahajournals.org/doi/full/10.1161/JAHA.113.000393>
- 7 <https://www.sciencedirect.com/science/article/pii/S0889157526001997>
- 8 <https://pmc.ncbi.nlm.nih.gov/articles/PMC4409691/>
- 9 <https://link.springer.com/article/10.1007/s00210-025-04143-6>
- 10 <https://www.nature.com/articles/s41598-020-64960-y>
- 11 <https://www.frontiersin.org/journals/cellular-and-infection-microbiology/articles/10.3389/fcimb.2022.1064737/full>
- 12 <https://pubmed.ncbi.nlm.nih.gov/27422507/>
- 13 <https://www.sciencedirect.com/science/article/pii/S0022316624004115>
- 14 <https://pmc.ncbi.nlm.nih.gov/articles/PMC12687085/>
- 15 <https://www.nature.com/articles/s41564-023-01418-7>
- 16 <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0189965>
- 17 <https://www.mdpi.com/2218-273X/15/11/1537>
- 18 <https://pmc.ncbi.nlm.nih.gov/articles/PMC12754079/>
- 19 <https://www.mdpi.com/2072-6643/17/19/3082>
- 20 <https://www.mdpi.com/1422-0067/23/19/11340>
- 21 <https://www.sciencedirect.com/science/article/pii/S1043661824002238>
- 22 <https://www.sciencedirect.com/science/article/pii/S0923250821000942>
- 23 <https://pmc.ncbi.nlm.nih.gov/articles/PMC9135213/>
- 24 <https://www.tandfonline.com/doi/full/10.3402/fnr.v60.31933>

Polémique

Connaissez-vous un hikikomori ? (p. 20)

- 1 <https://pmc.ncbi.nlm.nih.gov/articles/PMC8169334/>

Interview

Anxiété informationnelle : notre cerveau n'est pas fait pour traiter une actualité en temps réel, 24h/24 (p. 22)

- 1 Une étude montre que 61,5 % des adolescents exposés aux images de conflit à Gaza présentent des symptômes dépressifs et 57 % souffrent d'anxiété. *Source* : Abu-Elenin, M. M., et al., (2025). The Repercussions of Watching Scenes of the Escalating Conflict in Gaza Strip on the Mental Health of Adolescents in a Neighboring country. *BMC Public Health*.

Angle mort

Votre métabolisme est-il (trop) rigide ? (p. 26)

1. L'ATP (adénosine triphosphate) est la principale molécule énergétique des cellules : elle fournit l'énergie nécessaire à la plupart des processus biologiques, qu'il s'agisse de la contraction musculaire, du fonctionnement des organes ou de la synthèse des molécules indispensables à la vie.
2. Le glycogène est la forme de stockage du glucose dans l'organisme. Il s'agit d'une molécule composée de nombreuses unités de glucose assemblées entre elles, principalement stockée dans le foie et les muscles. Dans le foie, il aide à maintenir un taux de sucre stable dans le sang, tandis que dans les muscles, il sert de réserve d'énergie rapidement mobilisable lors de l'effort.
3. <https://pubmed.ncbi.nlm.nih.gov/18765680/>
4. <https://pubmed.ncbi.nlm.nih.gov/28467922/>
5. <https://pubmed.ncbi.nlm.nih.gov/35287953/>
6. <https://pubmed.ncbi.nlm.nih.gov/29697773/>
7. <https://pubmed.ncbi.nlm.nih.gov/31130874/>
8. <https://pubmed.ncbi.nlm.nih.gov/37107158/>
9. <https://pubmed.ncbi.nlm.nih.gov/19207879/>
10. <https://pmc.ncbi.nlm.nih.gov/articles/PMC10342527/>
11. <https://www.sciencedirect.com/science/article/abs/pii/S0985056206000185>
12. <https://www.federationdesdiabetiques.org/information/recherche-innovations-diabete/actualites/stress-et-diabete-de-type-2-un-lien-confirme#:~:text=Durant%20l%3%A9tude%2C%20899%20hommes,qui%20ne%20d%3%A9claraient%20aucun%20stress.>
13. <https://pubmed.ncbi.nlm.nih.gov/34851557/>
14. <https://pubmed.ncbi.nlm.nih.gov/40961926/>
15. <https://pubmed.ncbi.nlm.nih.gov/18285553/>
16. <https://pubmed.ncbi.nlm.nih.gov/32985108/>
17. <https://pubmed.ncbi.nlm.nih.gov/38920999/>
18. <https://idf.org/manging-diabetes/physical-activity/>
19. <https://www.endur-activ.com/les-mitochondries-2/>
20. <https://www.nature.com/articles/s41430-025-01665-3>
21. <https://observatoireprevention.org/2025/02/24/les-effets-cardiometaboliques-du-jeune-intermittent/>
22. <https://la-chrononutrition.com/les-bases-scientifiques/>
23. <https://www.lamedecinedusport.com/nutrition-sommeil-vigilance/>

Fiche thérapeutique

L'insuffisance veineuse : comprendre et traiter (p. 30)

- 1 Martinez-Zapata MJ et al., Phlebotonics for Venous Insufficiency. *Cochrane Database*. 2016.
- 2 Bagchi D et al., Free Radical Scavenging Abilities of Grape Seed Proanthocyanidins. *Res Commun Mol Pathol Pharmacol*. 2000.