



7 Adaptogene – Schwerpunkte

Referenzen

- Benson S et al. An acute, double-blind, placebo-controlled cross-over study of 320 mg and 640 mg doses of *Bacopa monnieri* (CDRI 08) on multitasking stress reactivity and mood. *Phytother Res.* 2014 Apr;28(4):551-9.
- Darbinyan V. *Rhodiola rosea* in stress induced fatigue – a double blind cross-over study of a standardized extract SHR-5 with a repeated low-dose regimen on the mental performance of healthy physicians during night duty. *Phytomedicine.* 2000 Oct;7(5): 365-71.
- Edwards D et al. Therapeutic effects and safety of *Rhodiola rosea* extract WS® 1375 in subjects with life-stress symptoms--results of an open-label study. *Phytother Res.* 2012 Aug;26(8):1220-5.
- Fatima U et al. Pharmacological attributes of *Bacopa monnieri* extract: Current updates and clinical manifestation. *Front Nutr.* 2022 Aug 18;9:972379.
- Gao L et al. Antidepressant effects of *Rhodiola* capsule combined with sertraline for major depressive disorder: A randomized double-blind placebo-controlled clinical trial. *J Affect Disord.* 2020 Mar 15;265:99-103.
- Irfan M et al. Adaptogenic effects of *Panax ginseng* on modulation of cardiovascular functions. *J Ginseng Res.* 2020 Jul;44(4): 538-543.
- Ivanova Stojcheva E, Quintela JC. The Effectiveness of *Rhodiola rosea* L. Preparations in Alleviating Various Aspects of Life-Stress Symptoms and Stress-Induced Conditions-Encouraging Clinical Evidence. *Molecules.* 2022 Jun 17;27(12):3902.
- Kale S et al. Safety and Efficacy of *Ashwagandha* Root Extract on Cognition, Energy and Mood Problems in Adults: Prospective, Randomized, Placebo-Controlled Study. *J Psychoactive Drugs.* 2026 Jan-Mar;58(1):45-57.
- Koozehchian MS et al. Dose-Response Effects of Short-Term *Rhodiola rosea* (Golden Root Extract) Supplementation on Anaerobic Exercise Performance and Cognitive Function in Resistance-Trained Athletes: A Randomized, Crossover, Double-Blind, and Placebo-Controlled Study. *Nutrients.* 2025 Nov 28;17(23):3736.
- Malík M, Tlustoš P. Nootropics as Cognitive Enhancers: Types, Dosage and Side Effects of Smart Drugs. *Nutrients.* 2022 Aug 17; 14(16):3367.
- Malík M, Tlustoš P. Nootropic Herbs, Shrubs, and Trees as Potential Cognitive Enhancers. *Plants (Basel).* 2023 Mar 18;12(6):1364.
- Mikulska P et al. *Ashwagandha* (*Withania somnifera*)-Current Research on the Health-Promoting Activities: A Narrative Review. *Pharmaceutics.* 2023 Mar 24;15(4):1057.
- Panossian A, Lemerond T, Efferth T. State-of-the-Art Review on Botanical Hybrid Preparations in Phytomedicine and Phytotherapy Research: Background and Perspectives. *Pharmaceutics (Basel).* 2024 Apr 10;17(4):483.
- Panossian A et al. Evolution of the adaptogenic concept from traditional use to medical systems: Pharmacology of stress- and aging-related diseases. *Med Res Rev.* 2021;41(1):630-703
- Panossian A, Seo EJ, Efferth T. Novel molecular mechanisms for the adaptogenic effects of herbal extracts on isolated brain cells using systems biology. *Phytomedicine.* 2018 Nov 15;50:257-284
- Patyra A et al. *Eleutherococcus* root: a comprehensive review of its phytochemistry and pharmacological potential in the context of its adaptogenic effect. *Front Pharmacol.* 2025 Oct 29;16:1683795.
- Shergis JL et al. *Panax ginseng* in randomised controlled trials: a systematic review. *Phytother Res.* 2013 Jul;27(7):949-65.
- Siwek M et al. Harder, better, faster, stronger? Retrospective chart review of adverse events of interactions between adaptogens and antidepressant drugs. *Front Pharmacol.* 2023 Sep 27;14:1271776.
- Sprengel M, Laskowski R, Jost Z. *Withania somnifera* (*Ashwagandha*) supplementation: a review of its mechanisms, health benefits, and role in sports performance. *Nutr Metab (Lond).* 2025 Feb 5;22(1):9.
- Ivanova Stojcheva E, Quintela JC. The Effectiveness of *Rhodiola rosea* L. Preparations in Alleviating Various Aspects of Life-Stress Symptoms and Stress-Induced Conditions-Encouraging Clinical Evidence. *Molecules.* 2022 Jun 17;27(12):3902.
- Such S et al. System-Level, Molecular and Cellular Mechanisms of Selected Plant Adaptogens-A Review. *Nutrients.* 2026 Mar 16; 18(6):931.
- Todorova V et al. Plant Adaptogens-History and Future Perspectives. *Nutrients.* 2021 Aug 20;13(8):2861
- Wróbel-Biedrawa D, Podolak I. Anti-Neuroinflammatory Effects of Adaptogens: A Mini-Review. *Molecules.* 2024 Feb 15;29(4): 866. doi: 10.3390/molecules29040866.