

Achillea composta

Sei componenti naturali diventano un integratore contro lo stress, la stanchezza, la debolezza del sistema immunitario: è antinvecchiamento, aumenta l'energia, stimola il corretto funzionamento cellulare.

Sono molto orgoglioso di queste capsule che ho formulato qualche anno fa ed ho fatto preparare in farmacia (Farmacia Sguazzini, in S. Pietro Mosezzo (NO) - tel. 0321. 53 716). Rivista oggi non mi sembra di dover cambiare nulla: ho solo provveduto a migliorare la qualità di qualche componente (per es. le foglie di ulivo hanno ora una percentuale più alta di oleuropeina). Ovviamente ciascuno può farle preparare da una farmacia di sua fiducia. La scelta dei componenti ha richiesto una revisione accurata di molti studi che ho voluto citare in calce a questa pagina (assicuro che li ho letti tutti...), perché hanno fornito uno studio accurato sull'efficacia e l'innocuità del prodotto.

Il dosaggio dei componenti elencati sotto suppone **l'assunzione di 1 capsula a colazione e una capsula a cena, aumentabili a tre (una in più a pranzo) in caso di bisogno (per es forte debilitazione, convalescenze, ecc.)**

Sergio Chiesa

La composizione

Achillea	100 mg
Olivo	50 mg
Propoli	25 mg
Rodiola	37,5
Dimetilglicina	75
Uncaria	75

Come di consueto non ho nessuna percentuale sul prodotto. Il mio interesse è solo favorire la salute.

Gli effetti dei singoli componenti

Achillea millefolium

- attività antiossidante e antimicrobica
- ansiolitica
- vasoprotettrice
- ringiovanimento tessuto epidermico
- disinfiammante e cicatrizzante del tessuto gastrico (anti-ulcera)
- estrogenica

Olivo foglie

- attività antimicrobica e antiossidante
- contro l'ipertensione
- antivirale
- ipoglicemico

Propoli

- antimicrobico
- antitumorale
- immunomodulante
- antinfiammatorio
- antiipercolesterolemia
- contro l'ipertensione

Rodiola rosea

- antinfiammatoria
- neuroprotettiva
- anti stanchezza, in particolare contro la sindrome da stanchezza cronica
- antidepressiva
- contro la demenza senile

- adattogena: immunomodulante
- anti-aging
- ansiolitica
- antidepressiva
- antitumorale

Uncaria tomentosa

- antitumorale (favorisce l'apoptosi e impedisce la proliferazione)
- favorisce il riequilibrio dei neutrofili e dei linfociti dopo le chemioterapie
- antiossidante
- antinfiammatoria
- agente per la riparazione del DNA
- antivirale
- anti artritica

Dimetilglicina

- È un enzima transferasi, tratto in genere dalla scorza del limone
- Trasforma l'omocisteina in metionina e quindi in SAM (S-adenosil-metionina)
- antidepressiva
- antitumorale
- efficace nell'autismo
- coinvolta nel ciclo di SAM, quindi nella produzione di numerosi ormoni, soprattutto riguardanti la serenità: quelli della corteccia surrenale, di neurotrasmettitori
- in condizioni di stress sostiene le funzioni epatiche, surrenali, pancreatiche
- favorisce l'attività sportiva

Bibliografia

Achillea millefolium

- Akram, M. (2013). Minireview on *Achillea millefolium* Linn. *Journal of Membrane Biology*. <http://doi.org/10.1007/s00232-013-9588-x>
- Applequist, W. L., & Moerman, D. E. (2011). Yarrow (*Achillea millefolium* L.): A Neglected Panacea? A Review of Ethnobotany, Bioactivity, and Biomedical Research I. *Economic Botany*. <http://doi.org/10.1007/s12231-011-9154-3>
- Baretta, I. P., Felizardo, R. A., Bimbato, V. F., Santos, M. G. J. Dos, Kassuya, C. A. L., Gasparotto Junior, A., ... Andreatini, R. (2012). Anxiolytic-like effects of acute and chronic treatment with *Achillea millefolium* L. extract. *Journal of Ethnopharmacology*, 140(1), 46–54. <http://doi.org/10.1016/j.jep.2011.11.047>
- Benedek, B., Kopp, B., & Melzig, M. F. (2007). *Achillea millefolium* L. s.l. - Is the anti-inflammatory activity mediated by protease inhibition? *Journal of Ethnopharmacology*, 113(2), 312–317. <http://doi.org/10.1016/j.jep.2007.06.014>
- Candan, F., Unlu, M., Tepe, B., Daferera, D., Polissiou, M., Sökmen, A., & Akpulat, H. A. (2003). Antioxidant and antimicrobial activity of the essential oil and methanol extracts of *Achillea millefolium* subsp. *millefolium* Afan. (Asteraceae). *Journal of Ethnopharmacology*, 87(2-3), 215–220. [http://doi.org/10.1016/S0378-8741\(03\)00149-1](http://doi.org/10.1016/S0378-8741(03)00149-1)
- Cavalcanti, A. M., Baggio, C. H., Freitas, C. S., Rieck, L., de Sousa, R. S., Da Silva-Santos, J. E., ... Marques, M. C. A. (2006). Safety and antiulcer efficacy studies of *Achillea millefolium* L. after chronic treatment in Wistar rats. *Journal of Ethnopharmacology*, 107(2), 277–284. <http://doi.org/10.1016/j.jep.2006.03.011>
- Dall'Acqua, S., Bolego, C., Cignarella, A., Gaion, R. M., & Innocenti, G. (2011). Vasoprotective activity of standardized *Achillea millefolium* extract. *Phytomedicine*, 18(12), 1031–1036. <http://doi.org/10.1016/j.phymed.2011.05.005>
- Khan, A. U., & Gilani, A. H. (2011). Blood pressure lowering, cardiovascular inhibitory and bronchodilatory actions of *Achillea millefolium*. *Phytotherapy Research*, 25(4), 577–583. <http://doi.org/10.1002/ptr.3303>
- Nilforoushzadeh, M. A., Shirani-Bidabadi, L., Zolfaghari-Baghbaderani, A., Saberi, S., Siadat, A. H., & Mahmoudi, M. (2008). Comparison of *Thymus vulgaris* (Thyme), *Achillea millefolium* (Yarrow) and propolis hydroalcoholic extracts versus systemic glucantime in the treatment of cutaneous leishmaniasis in balb/c mice. *Journal of Vector Borne Diseases*, 45(4), 301–306.
- Pain, S., Altobelli, C., Boher, A., Cittadini, L., Favre-Mercuret, M., Gaillard, C., ... André-Frei, V. (2011). Surface rejuvenating effect of *Achillea millefolium* extract. *International Journal of Cosmetic Science*, 33(6), 535–542. <http://doi.org/10.1111/j.1468-2494.2011.00667.x>
- Potrich, F. B., Allemand, A., da Silva, L. M., dos Santos, A. C., Baggio, C. H., Freitas, C. S., ... Marques, M. C. A. (2010). Antiulcerogenic activity of hydroalcoholic extract of *Achillea millefolium* L.: Involvement of the antioxidant system. *Journal of Ethnopharmacology*, 130(1), 85–92. <http://doi.org/10.1016/j.jep.2010.04.014>
- Ramsey, J., Robertson, A., & Husband, B. (2008). Rapid adaptive divergence in new world *Achillea*, an autopolyploid complex of ecological races. *Evolution*, 62(3), 639–653. <http://doi.org/10.1111/j.1558-5646.2007.00264.x>
- Tunón, H., Thorsell, W., & Bohlin, L. (1994). Mosquito repelling activity of compounds occurring in *Achillea millefolium* L. (Asteraceae). *Economic Botany*, 48(2), 111–120. <http://doi.org/10.1007/BF02908196>
- Vitalini, S., Beretta, G., Iriti, M., Orsenigo, S., Basilico, N., Dall'Acqua, S., ... Fico, G. (2011). Phenolic compounds from *Achillea millefolium* L. and their bioactivity. *Acta Biochimica Polonica*, 58(2), 203–209.

Olivo foglie

- Kiritsakis, K., Kontominas, M. G., Kontogiorgis, C., Hadjipavlou-Litina, D., Moustakas, A., & Kiritsakis, A. (2010). Composition and antioxidant activity of olive leaf extracts from Greek olive cultivars. *JAOCs, Journal of the American Oil Chemists' Society*, 87(4), 369–376. <http://doi.org/10.1007/s11746-009-1517-x>
- Micol, V., Caturla, N., Pérez-Fons, L., Más, V., Pérez, L., & Estepa, A. (2005). The olive leaf extract exhibits antiviral activity against viral haemorrhagic septicaemia rhabdovirus (VHSV). *Antiviral Research*, 66(2-3), 129–136. <http://doi.org/10.1016/j.antiviral.2005.02.005>
- Sudjana, A. N., D'Orazio, C., Ryan, V., Rasool, N., Ng, J., Islam, N., ... Hammer, K. A. (2009). Antimicrobial activity of commercial *Olea europaea* (olive) leaf extract. *International Journal of Antimicrobial Agents*, 33(5), 461–463. <http://doi.org/10.1016/j.ijantimicag.2008.10.026>
- Susalit, E., Agus, N., Effendi, I., Tjandrawinata, R. R., Nofiarny, D., Perrinjaquet-Mocchetti, T., & Verbruggen, M. (2011a). Olive (*Olea europaea*) leaf extract effective in patients with stage-I hypertension: Comparison with Captopril. *Phytomedicine*, 18(4), 251–258. <http://doi.org/10.1016/j.phymed.2010.08.016>

- Wainstein, J., Ganz, T., Boaz, M., Bar Dayan, Y., Dolev, E., Kerem, Z., & Madar, Z. (2012). Olive Leaf Extract as a Hypoglycemic Agent in Both Human Diabetic Subjects and in Rats. *Journal of Medicinal Food*. <http://doi.org/10.1089/jmf.2011.0243>
- Wang, W., Scali, M., Vignani, R., Spadafora, A., Sensi, E., Mazzuca, S., & Cresti, M. (2003). Protein extraction for two-dimensional electrophoresis from olive leaf, a plant tissue containing high levels of interfering compounds. *Electrophoresis*, 24(14), 2369–2375. <http://doi.org/10.1002/elps.200305500>

Rodiola rosea

- Abidov, M., Crendal, F., Grachev, S., Seifulla, R., & Ziegenfuss, T. (2003). Effect of extracts from *Rhodiola rosea* and *Rhodiola crenulata* (Crassulaceae) roots on ATP content in mitochondria of skeletal muscles. *Bulletin of Experimental Biology and Medicine*, 136(6), 585–587. <http://doi.org/10.1023/B:BEBM.0000020211.24779.15>
- Abidov, M., Grachev, S., Seifulla, R. D., & Ziegenfuss, T. N. (2004). Extract of *Rhodiola rosea* radix reduces the level of C-reactive protein and creatinine kinase in the blood. *Bulletin of Experimental Biology and Medicine*, 138(1), 63–64. <http://doi.org/10.1023/B:BEBM.0000046940.45382.53>
- Chan, S.-W. (2012). Panax ginseng, *Rhodiola rosea* and *Schisandra chinensis*. *International Journal of Food Sciences and Nutrition*, 63 Suppl 1(March), 75–81. <http://doi.org/10.3109/09637486.2011.627840>
- Chen, Q. G., Zeng, Y. S., Qu, Z. Q., Tang, J. Y., Qin, Y. J., Chung, P., ... Hägg, U. (2009). The effects of *Rhodiola rosea* extract on 5-HT level, cell proliferation and quantity of neurons at cerebral hippocampus of depressive rats. *Phytomedicine*, 16(9), 830–838. <http://doi.org/10.1016/j.phymed.2009.03.011>
- De Bock, K., Eijnde, B. O., Ramaekers, M., & Hespel, P. (2004). Acute *Rhodiola rosea* intake can improve endurance exercise performance. *International Journal of Sport Nutrition and Exercise Metabolism*, 14(3), 298–307.
- Hung, S. K., Perry, R., & Ernst, E. (2011). The effectiveness and efficacy of *Rhodiola rosea* L.: a systematic review of randomized clinical trials. *Phytomedicine: International Journal of Phytotherapy and Phytopharmacology*, 18(4), 235–244. <http://doi.org/10.1016/j.phymed.2010.08.014>
- Jafari, M., Felgner, J. S., Bussel, I. I., Hutchili, T., Khodayari, B., Rose, M. R., ... Mueller, L. D. (2007). *Rhodiola*: a promising anti-aging Chinese herb. *Rejuvenation Research*, 10(4), 587–602. <http://doi.org/10.1089/rej.2007.0560>
- Kelly, G. S. (2001). *Rhodiola rosea*: A possible plant adaptogen. *Alternative Medicine Review*.
- Lee, Y., Jung, J. C., Jang, S., Kim, J., Ali, Z., Khan, I. A., & Oh, S. (2013). Anti-inflammatory and neuroprotective effects of constituents isolated from *Rhodiola rosea*. *Evidence-Based Complementary and Alternative Medicine*, 2013. <http://doi.org/10.1155/2013/514049>
- Panossian, A., Wikman, G., & Sarris, J. (2010). Rosenroot (*Rhodiola rosea*): traditional use, chemical composition, pharmacology and clinical efficacy. *Phytomedicine: International Journal of Phytotherapy and Phytopharmacology*, 17(7), 481–493. <http://doi.org/10.1016/j.phymed.2010.02.002>
- Parisi, A., Tranchita, E., Duranti, G., Ciminelli, E., Quaranta, F., Ceci, R., ... Sabatini, S. (2010). Effects of chronic *Rhodiola Rosea* supplementation on sport performance and antioxidant capacity in trained male: Preliminary results. *Journal of Sports Medicine and Physical Fitness*, 50(1), 57–63. <http://doi.org/R40102851> [pii]
- Van Diermen, D., Marston, A., Bravo, J., Reist, M., Carrupt, P. A., & Hostettmann, K. (2009). Monoamine oxidase inhibition by *Rhodiola rosea* L. roots. *Journal of Ethnopharmacology*, 122(2), 397–401. <http://doi.org/10.1016/j.jep.2009.01.007>
- Wiedenfeld, H., Dumaa, M., Malinowski, M., Furmanowa, M., & Narantuya, S. (2007). Phytochemical and analytical studies of extracts from *Rhodiola rosea* and *Rhodiola quadrifida*. *Pharmazie*, 62(4), 308–311. <http://doi.org/10.1691/ph.2007.4.6664>
- Yousef, G. G., Grace, M. H., Cheng, D. M., Belolipov, I. V., Raskin, I., & Lila, M. A. (2006). Comparative phytochemical characterization of three *Rhodiola* species. *Phytochemistry*, 67(21), 2380–2391. <http://doi.org/10.1016/j.phytochem.2006.07.026>

Uncaria

- Aguilar, J. L., Rojas, P., Marcelo, A., Plaza, A., Bauer, R., Reininger, E., ... Merfort, I. (2002). Anti-inflammatory activity of two different extracts of *Uncaria tomentosa* (Rubiaceae). *Journal of Ethnopharmacology*, 81(2), 271–276. [http://doi.org/10.1016/S0378-8741\(02\)00093-4](http://doi.org/10.1016/S0378-8741(02)00093-4)
- Åkesson, C., Lindgren, H., Pero, R. W., Leanderson, T., & Ivars, F. (2003). An extract of *Uncaria tomentosa* inhibiting cell division and NF-κB activity without inducing cell death. *International Immunopharmacology*, 3(13-14), 1889–1900. <http://doi.org/10.1016/j.intimp.2003.07.001>

- De Martino, L., Martinot, J. L. S., Franceschelli, S., Leone, A., Pizza, C., & De Feo, V. (2006). Proapoptotic effect of *Uncaria tomentosa* extracts. *Journal of Ethnopharmacology*, *107*(1), 91–94. <http://doi.org/10.1016/j.jep.2006.02.013>
- Farias, I., Do Carmo Araújo, M., Zimmermann, E. S., Dalmora, S. L., Benedetti, A. L., Alvarez-Silva, M., ... Schetinger, M. R. C. (2011). *Uncaria tomentosa* stimulates the proliferation of myeloid progenitor cells. *Journal of Ethnopharmacology*, *137*(1), 856–863. <http://doi.org/10.1016/j.jep.2011.07.011>
- Gonçalves, C., Dinis, T., & Batista, M. T. (2005). Antioxidant properties of proanthocyanidins of *Uncaria tomentosa* bark decoction: A mechanism for anti-inflammatory activity. *Phytochemistry*, *66*(1), 89–98. <http://doi.org/10.1016/j.phytochem.2004.10.025>
- Keplinger, K., Laus, G., Wurm, M., Dierich, M. P., & Teppner, H. (1999). *Uncaria tomentosa* (Willd.) DC.--ethnomedicinal use and new pharmacological, toxicological and botanical results. *Journal of Ethnopharmacology*, *64*(1), 23–34. [http://doi.org/10.1016/S0378-8741\(98\)00096-8](http://doi.org/10.1016/S0378-8741(98)00096-8)
- Laus, G., Brössner, D., & Keplinger, K. (1997). Alkaloids of peruvian *Uncaria tomentosa*. *Phytochemistry*, *45*(4), 855–860. [http://doi.org/10.1016/S0031-9422\(97\)00061-7](http://doi.org/10.1016/S0031-9422(97)00061-7)
- Mur, E., Hartig, F., Eibl, G., & Schirmer, M. (2002). Randomized double blind trial of an extract from the pentacyclic alkaloid-chemotype of *uncaria tomentosa* for the treatment of rheumatoid arthritis. *Journal of Rheumatology*, *29*(4), 678–681.
- Reis, S. R. I. N., Valente, L. M. M., Sampaio, A. L., Siani, A. C., Gandini, M., Azeredo, E. L., ... Kubelka, C. F. (2008). Immunomodulating and antiviral activities of *Uncaria tomentosa* on human monocytes infected with Dengue Virus-2. *International Immunopharmacology*, *8*(3), 468–476. <http://doi.org/10.1016/j.intimp.2007.11.010>
- Rizzi, R., Re, F., Bianchi, A., De Feo, V., de Simone, F., Bianchi, L., & Stivala, L. A. (1993). Mutagenic and antimutagenic activities of *Uncaria tomentosa* and its extracts. *Journal of Ethnopharmacology*, *38*(1), 63–77. [http://doi.org/10.1016/0378-8741\(93\)90080-O](http://doi.org/10.1016/0378-8741(93)90080-O)
- Sandoval, M., Okuhama, N. N., Zhang, X. J., Condezo, L. A., Lao, J., Angeles, F. M., ... Miller, M. J. S. (2002). Anti-inflammatory and antioxidant activities of cat's claw (*Uncaria tomentosa* and *Uncaria guianensis*) are independent of their alkaloid content. *Phytomedicine: International Journal of Phytotherapy and Phytopharmacology*, *9*(4), 325–337. <http://doi.org/10.1078/0944-7113-00117>
- Santa Maria, A., Lopez, A., Diaz, M. M., Albán, J., Galán De Mera, A., Vicente Orellana, J. A., & Pozuelo, J. M. (1997). Evaluation of the toxicity of *Uncaria tomentosa* by bioassays in vitro. *Journal of Ethnopharmacology*, *57*(3), 183–187. [http://doi.org/10.1016/S0378-8741\(97\)00067-6](http://doi.org/10.1016/S0378-8741(97)00067-6)
- Santos Araújo, M. D. C., Farias, I. L., Gutierrez, J., Dalmora, S. L., Flores, N., Farias, J., ... Chitolina Schetinger, M. R. (2012). *Uncaria tomentosa*-Adjuvant Treatment for Breast Cancer: Clinical Trial. *Evidence-Based Complementary and Alternative Medicine: eCAM*, *2012*, 676984. <http://doi.org/10.1155/2012/676984>
- Schetinger, M. R. C., Farias, I. L. G., Araújo, M. C. S., Farias, J. G., Rossato, L. V., Elsenbach, L. I., ... Morsch, V. M. (2012). *Uncaria tomentosa* for reducing side effects caused by chemotherapy in CRC patients: Clinical trial. *Evidence-Based Complementary and Alternative Medicine*, *2012*. <http://doi.org/10.1155/2012/892182>

Dimetilglicina (la bibliografia sulla dimetilglicina è troppo vasta per riportarla. Chi desiderasse approfondire digiti la parola su Google e troverà discrete sintesi in materia. Diamo solo alcuni studi recenti):

- Chen, S.-Y., Lai, M.-C., Lai, S.-J., & Lee, Y.-C. (2009). Characterization of osmolyte betaine synthesizing sarcosine dimethylglycine N-methyltransferase from *Methanohalophilus portucalensis*. *Archives of Microbiology*, *191*(10), 735–743. <http://doi.org/10.1007/s00203-009-0501-z>
- Fernández-Roig, S., Cavallé-Busquets, P., Fernández-Ballart, J. D., Ballesteros, M., Berrocal-Zaragoza, M. I., Salat-Batlle, J., ... Murphy, M. M. (2013). Low folate status enhances pregnancy changes in plasma betaine and dimethylglycine concentrations and the association between betaine and homocysteine. *American Journal of Clinical Nutrition*, *97*(6), 1252–1259. <http://doi.org/10.3945/ajcn.112.054189>
- Friesen, R. W., Novak, E. M., Hasman, D., & Innis, S. M. (2007). Relationship of dimethylglycine, choline, and betaine with oxoproline in plasma of pregnant women and their newborn infants. *The Journal of Nutrition*, *137*(12), 2641–2646.
- Innis, S. M., & Hasman, D. (2006). Evidence of choline depletion and reduced betaine and dimethylglycine with increased homocysteine in plasma of children with cystic fibrosis. *The Journal of nutrition* (Vol. 136).
- Kern, J. K., Miller, V. S., Cauller, P. L., Kendall, P. R., Mehta, P. J., & Dodd, M. (2001). *Effectiveness of N,N-dimethylglycine in autism and pervasive developmental disorder. Journal of child neurology* (Vol. 16).
- Montgomery, A. (2006). Dimethylglycine and people with autism. *Learning Disability Practice*, *9*(2), 34–36. Retrieved from <http://ezproxy.lib.ucf.edu/login?URL=http://search.ebscohost.com/login.aspx?direct=true&db=aph&AN=20093268&site=ehost-live>

- Porter, D. H., Cook, R. J., & Wagner, C. (1985). Enzymatic properties of dimethylglycine dehydrogenase and sarcosine dehydrogenase from rat liver. *Archives of Biochemistry and Biophysics*, 243(2), 396–407. [http://doi.org/10.1016/0003-9861\(85\)90516-8](http://doi.org/10.1016/0003-9861(85)90516-8)
- Porter, D. H., Lin, M., & Wagner, C. (1985). Measurement of dimethylglycine in biological fluids. *Analytical Biochemistry*, 151(2), 299–303. [http://doi.org/10.1016/0003-2697\(85\)90179-4](http://doi.org/10.1016/0003-2697(85)90179-4)
- Slow, S., McGregor, D. O., Lever, M., Lee, M. B., George, P. M., & Chambers, S. T. (2004). Dimethylglycine supplementation does not affect plasma homocysteine concentrations in pre-dialysis chronic renal failure patients. *Clin.Biochem.*, 37(0009-9120 (Print)), 974–976.
- Tveitevåg Svingen, G. F., Ueland, P. M., Pedersen, E. K. R., Schartum-Hansen, H., Seifert, R., Ebbing, M., ... Nygård, O. (2013). Plasma dimethylglycine and risk of incident acute myocardial infarction in patients with stable angina pectoris. *Arteriosclerosis, Thrombosis, and Vascular Biology*, 33(8), 2041–2048. <http://doi.org/10.1161/ATVBAHA.113.301714>