

Aspetti dietetici nelle intolleranze e nelle allergie alimentari

Bibliografia

- [1] Johansson SG, Hourihane JO, Bousquet J et al. A revised nomenclature for allergy. An EAACI position statement from the EAACI nomenclature task force. *Allergy* 2001; 56: 813-824.
- [2] <http://emedicine.medscape.com/article/135959-overview>
- [3] F. Rancé, Promising treatments in development for food allergies. *Expert Opin Emerg Drugs*, 2004 November, vol. 9, n. 2, 257-68.
- [4] Amy M. Branum, Susan L. Lukacs. Food Allergy Among U.S. Children: Trends in Prevalence and Hospitalizations. *NCHS Data Brief* 2008 October, Number 10.
- [5] Direttiva 2003/89/CE del parlamento e del consiglio europeo del 10 novembre 2003.
- [6] <http://www.foodallergy.org/allergens>
- [7] Sampson HA. Update on food allergy. *J Allergy Clin Immunol* 2004; 113: 805-819.
- [8] <http://allergen.org/treeview.php>
- [9] <http://emedicine.medscape.com/article/135959-treatment#aw2aab6b6b2>
- [10] Boyce JA, Assa'ad A, Burks AW et al. Guidelines for the Diagnosis and Management of Food Allergy in the United States: Summary of the NIAID-Sponsored Expert Panel Report. *J Allergy Clin Immunol* 2010; 126 (6), 1105-1118.
- [11] Koplin JJ, Osborne NJ, Wake M et al. Can early introduction of egg prevent egg allergy in infants? A population-based study. *J Allergy Clin Immunol* 2010; 126 (4), 807-813.
- [12] Hamilton RG, Franklin Adkinson N Jr. In vitro assays for the diagnosis of IgE-mediated disorders. *J Allergy Clin Immunol* 2004; 114: 213-225.
- [13] Boyce JA, Assa'ad A, Burks AW et al., NIAID-Sponsored Expert Panel. Guidelines for the diagnosis and management of food allergy in the United States: summary of the NIAID-sponsored expert panel report. *J Allergy Clin Immunol* 2010; 126: 1105-1118.
- [14] Caubet JC, Sampson HA. Beyond skin testing: state of the art and new horizons in food allergy diagnostic testing. *Immunol Allergy Clin North Am* 2012; 32(1), 97-109.
- [15] Sanz ML, Blázquez AB, Garcia BE. Microarray of allergenic component-based diagnosis in food allergy. *Curr Opin Allergy Clin Immunol* 2011; 11(3), 204-209.
- [16] Rosen JP, Selcow JE, Mendelson LM, Grodofsky MP, Factor JM, Sampson HA. Skin testing with natural foods in patients suspected of having food allergies: is it a necessity? *J Allergy Clin Immunol* 1994; 93: 1068-1070.
- [17] Clarke L, McQueen J, Samild A, Swain AR. Dietitians Association of Australia review paper. The dietary management of food allergy and food intolerance in children and adults. *Aust J Nutr Dietetics* 1996; 53 (3): 89-98.
- [18] Perr HA. Novel foods to treat food allergy and gastrointestinal infection. *Current allergy and asthma reports* 2006; 6 (2): 153-9.
- [19] Sotkovský P, Sklenář J, Halada P, Cinová J, Setinová I, Kainarová A, Goliáš J, Pavlásková K, Honzová S, Tučková L. A new approach to the isolation and characterization of wheat flour allergens. *Clin Exp Allergy* 2011 Jul; 41 (7): 1031-43.
- [20] Akagawa M, Handoyo T, Ishii T, Kumazawa S, Morita N, Suyama K. Proteomic analysis of wheat flour allergens. *J Agric Food Chem* 2007; 55 (17): 6863-70.
- [21] Zone JJ. Skin manifestations of celiac disease. *Gastroenterology* 2005; 128: S87-S91.
- [22] http://celiachia.it/public/bo/upload/aic%5Cdoc/celiachia_dermatite_erpetiforme.pdf
- [23] Gawkrödger DJ, Blackwell JN, Gilmour HM et al. Dermatitis herpetiformis, diet and demography. *Gut* 1984; 25: 151-157.
- [24] Mobacken H, Kastrup W, Nilsson LA. Incidence and prevalence of dermatitis herpetiformis in Sweden. *Arch Derm Venereol* 1984; 64: 400-404.
- [25] Sheffer AL, Austen KF. Exercise-induced anaphylaxis. *J Allergy Clin Immunol* 1984 May; 73(5 Pt 2): 699-703.
- [26] <http://emedicine.medscape.com/article/886641-overview#a0156>
- [27] Shadick NA, Liang MH, Partridge AJ et al. The natural history of exercise-induced anaphylaxis: survey results from a 10-year follow-up study. *J Allergy Clin Immunol* 1999 Jul; 104 (1): 123-7.
- [28] Romano A, Di Fonso M, Giuffreda F et al. Food-dependent exercise-induced anaphylaxis: clinical and laboratory findings in 54 subjects. *Int Arch Allergy Immunol* 2001 Jul; 125 (3): 264-72.
- [29] Soyer OU, Sekerel BE. Food dependent exercise induced anaphylaxis or exercise induced anaphylaxis? *Allergol Immunopathol (Madr)*. 2008 Jul-Aug; 36 (4): 242-3.
- [30] Maulitz RM, Pratt DS, Schocket AL. Exercise-induced anaphylactic reaction to shellfish. *J Allergy Clin Immunol* 1979 Jun; 63(6): 433-4.
- [31] Romano A, Di Fonso M, Giuffreda F et al. Food-dependent exercise-induced anaphylaxis: clinical and laboratory findings in 54 subjects. *Int Arch Allergy Immunol* 2001 Jul; 125 (3): 264-72.

- [32] www.foodallergy.org; <http://aafa.org/>; http://salute.gov.it/imgs/C_17_opuscoliPoster_1_allegato.pdf; <http://niaid.nih.gov/topics/foodallergy/clinical/documents/faguidelinesexecsummary.pdf>; <http://ncbi.nlm.nih.gov/pubmedhealth/PMH0033575/>
- [33] Schlumberger HD. Pseudo-allergic reactions to drugs and chemicals. *Ann Allergy* 1983 Aug; 51 (2 Pt 2): 317-24.
- [34] Nelson M, Ogden J. An exploration of food intolerance in the primary care setting: the general practitioner's experience. *Soc Sci Med* 2008 September; 67 (6): 1038-45.
- [35] Bush RK, Taylor SL. Adverse reactions to food and drug additives. In: Adkinson NF Jr, ed. *Middleton's Allergy: Principles and Practice*, 7th ed., Mosby Elsevier, 2008, chap. 66.
- [36] Caroline Kisker, Hermann Schindelin, Andrew Pacheco, William A. Wehbi, Robert M. Garrett, K.V. Rajagopalan, John H. Enemark, D.C. Rees. Molecular Basis of Sulfite Oxidase Deficiency from the Structure of Sulfite Oxidase. *Cell* 1997 December 26; Vol. 91, 973-983.
- [37] <http://emedicine.medscape.com/article/116930-overview>
- [38] Sapone et al. Spectrum of gluten-related disorders: consensus on new nomenclature and classification. *BMC Medicine* 2012, 10:13 (<http://biomedcentral.com/1741-7015/10/13>)
- [39] Vanga R and Leffer DA. Gluten sensitivity: not celiac and not certain. *Gastroenterology* 2013; 145: 276-279.
- [40] Hadjivassiliou M et al. Myopathy associated with gluten sensitivity. *Muscle Nerve* 2007; 35: 443-450.
- [41] Verdu EF, Armstrong D, Murray JA. Between celiac disease and irritable bowel syndrome: The 'No Man's Land' of Gluten Sensitivity. *The American Journal of Gastroenterology* 2009; 104 (6): 1587-1594.
- [42] Verdu EF. Can gluten contribute to irritable bowel syndrome? *Am J Gastroenterol* 2011; 106: 516-18.
- [43] Primo M.L. Pane e citochine – La Gluten Sensitivity. *La Medicina Biologica* 2013/3; 3-13.
- [44] http://drschaer-institute.com/smartedit/documents/download/primo_documento_internazionale_per_la_definizione_della_sensibilita_al_glutine_ok.pdf
- [45] Marsh MN. Gluten, major histocompatibility complex, and the small intestine: a molecular and immunobiologic approach to the spectrum of gluten sensitivity ("celiac sprue"). *Gastroenterology* 1992; 102: 330-54.
- [46] Oberhuber G, Granditsch G, Vogelsang H. The histopathology of celiac disease: time for a standardized report scheme for pathologists. *Eur J Gastroenterol Hepatol* 1999; 11: 1185-94.
- [47] Fasano, A. Surprises from Celiac Disease. *Scientific American* 2009, August; 301 (2), 54-61.
- [48] Sapone A., Lammers, K.M., Casolaro, V., Cammarota M, Giuliano, M.T., Fasano, A. et al. Divergence of gut permeability and mucosal immune gene expression in two gluten-associated conditions: celiac disease and gluten sensitivity. *BMC Medicine* 2011, 9 (23).
- [49] Junker, Y., Zeissig, S., Kim, S., Barisani, D., Wieser, H., Leffler, D., Schuppan, D. et al. Wheat amylase trypsin inhibitors drive intestinal inflammation via activation of toll-like receptor 4. *Journal of Experimental Medicine* 2012; 209 (13).
- [50] Shepherd, S.J., Parker, F.C., Muir, J.G., Gibson, P.R. Dietary triggers of abdominal symptoms in patients with irritable bowel syndrome: randomized placebo controlled evidence. *Clinical Gastroenterology and Hepatology* 2008; 6, 76571.
- [51] Biesiekierski JR, Peters SL, Newnham ED, Rosella O, Muir JG, Gibson PR. No effects of gluten in patients with self-reported non-celiac gluten sensitivity after dietary reduction of fermentable, poorly absorbed, short-chain carbohydrates. *Gastroenterology* 2013 Aug; 145 (2): 320-8.e1-3.
- [52] <http://medibio.it/publicazioni/la-medicina-biologica1/la-medicina-biologica-n-3-2013-luglio-settembre/>
- [53] Junker, Y., Zeissig, S., Kim, S., Barisani, D., Wieser, H., Leffler, D., Schuppan, D. et al. Wheat amylase trypsin inhibitors drive intestinal inflammation via activation of toll-like receptor 4. *Journal of Experimental Medicine* 2012; 209 (13).
- [54] Sapone A., Lammers, K.M., Casolaro, V., Cammarota M, Giuliano, M.T., Fasano, A. et al. Divergence of gut permeability and mucosal immune gene expression in two gluten-associated conditions: celiac disease and gluten sensitivity. *BMC Medicine* 2011, 9 (23).
- [55] Primo M.L. Pane e citochine – La Gluten Sensitivity. *La Medicina Biologica* 2013/3; 3-13. <http://medibio.it/publicazioni/la-medicina-biologica1/la-medicina-biologica-n-3-2013-luglio-settembre/>
- [56] Mohsin Rashid for Professional Advisory Board of Canadian Celiac Association, *Guidelines for Consumption of Pure and Uncontaminated Oats by Individuals with Celiac Disease*, June 08, 2007.
- [57] Hadjivassiliou M, Sanders DS, Woodroffe N, Williamson C, Grünewald RA. Gluten ataxia. *Cerebellum* 2008; 7 (3): 494-8. doi: 10.1007/s12311-008-0052-x.
- [58] http://torrinomedica.it/argomentimedici/glutine/atassia_da_glutine.asp#ixzz2pY4HJdTY
- [59] <http://celiachiaitalia.com/articoli/a/focus-on/manifestazioni-neurologiche-della-sensibilita-al-glutine/459>
- [60] Steinmann B, Santer R. Disorders of Fructose Metabolism. In: Saudubray JM, van den Berghe G, Walter JH, eds. *Inborn Metabolic Diseases: Diagnosis and Treatment*, 5th ed., Springer, 2012, chap 9.
- [61] Steinmann, Beat; Santer, Rene. Disorders of Fructose Metabolism. In: Saudubray, Jean-Marie; van den Berghe, Georges; Walter, John H. Inborn, *Metabolic Diseases: Diagnosis and Treatment*, 5th ed., Springer, 2012, pp. 157-165.
- [62] <http://ghr.nlm.nih.gov/condition/hereditary-fructose-intolerance>
- [63] Borsani, G., Bassi, M.T., Sperandio, M.P., De Grandi, A., Buoninconti, A., Riboni, M., Manzoni, M., Incerti, B., Pepe, A., Andria, G., Ballabio, A., Sebastio, G. SLC7A7, encoding a putative permease-related protein, is mutated in patients with lysinuric protein intolerance. *Nature Genet* 1999; 21: 297-301.
- [64] Tanner LM, Näntö-Salonen K, Niinikoski H et al. Nephropathy advancing to end-stage renal disease: a novel complication of lysinuric protein intolerance. *J Pediatr* 2007 June; 150 (6): 161-164.
- [65] <http://intolleranze-alimentari.net/2013/05/intolleranze-additivi-alimentari.html>

- [67] Vesa TH, Marteau P, Korpela R. Lactose intolerance. *J Am Coll Nutr* 2000; 19: 165S-175S.
- [68] Joachim G. The relationship between habits of food consumption and reported reactions to food in people with inflammatory bowel disease – testing the limits. *Nutrition and health* 1999; 13 (2): 69-83.
- [69] Pribila BA, Hertzler SR, Martin BR, Weaver CM, Savaiano DA. Improved lactose digestion and intolerance among African-American adolescent girls fed a dairy-rich diet. *Journal of the American Dietetic Association* 2000; 100 (5): 524-8; quiz 529-30.
- [70] Bulhões AC, Goldani HA, Oliveira FS, Matte US, Mazuca RB, Silveira TR. Correlation between lactose absorption and the C/T-13910 and G/A-22018 mutations of the lactase-phlorizin hydrolase (LCT) gene in adult-type hypolactasia. *Brazilian Journal of Medical and Biological Research* 2007; 40 (11): 1441-6.
- [71] Beja-Pereira A et al. Gene-culture coevolution between cattle milk protein genes and human lactase genes. *Nat Genet* 2003; 35: 311-313.
- [72] <http://efsa.europa.eu/en/efsajournal/doc/1763.pdf>
- [73] Hargrove, James L.; Berdanier, Carolyn D. *Nutrition and gene expression*, CRC Press, 1993.
- [74] http://en.wikipedia.org/wiki/Lactose_intolerance#cite_note-Berdanier-29
- [75] Spencer TR, Schur PM. The challenge of multiple chemical sensitivity. *J Environmental Health* 2008; 70: 24-27.
- [76] Joffres MR, Sampalli T, Fox RA. Physiologic and symptomatic responses to low-level substances in individuals with and without chemical sensitivities: a randomized controlled blinded pilot booth study. *Environ Health Perspect* 2005; 113 (9): 1178-83.
- [77] Spencer TR, Schur PM. The challenge of multiple chemical sensitivity. *J Environmental Health* 2008; 70: 24-27.
- [78] De Luca C, Raskovic D, Pacifico V, Thai JC, Korkina L. The search for reliable biomarkers of disease in multiple chemical sensitivity and other environmental intolerances. *Int J Environ Res Public Health* 2011; 8: 2770-2797.
- [79] <http://www.mcsrr.org/>
- [80] Wymenga W. Biogenic amine formation and degradation by potential fish sludge starter microorganisms. *Int J Food Microbiol* 2000; 57: 107-114.
- [81] Ladero V, Calles-Enríquez M., Fernández M., Alvarez M.A. Toxicological effects of dietary biogenic amines. *Curr Nut Food Sci* 2010; 6:145-156.
- [82] Flint S., Fletcher G., Bremer P., Meerdink G. Control of Biogenic amines in food – Existing and Emerging Approaches. *J Food Sci* 2010; 75: R139-R150.
- [83] Halász A., Barath A., Simon-Sarkadi L., Holzapfel, W. Biogenic amines and their production by microorganisms in food. *Trends Food Sci Tech* 1994; 5: 42-49.
- [84] Pircher et al. Formation of cadaverine, histamine, putrescine and tyramine by bacteria isolated from meat, fermented sausages and cheeses. *Eur Food Res Technol* 2007; 226: 225-231.
- [85] Maintz L., Novak N. Histamine and histamine intolerance. *Am J Clin Nutr* 2007; 85: 1185-96.
- [86] Blackwell B., Mabbitt L. Tyramine in cheese related to hypertensive crisis after monoamine oxidase inhibition. *Lancet* 1965; 2: 93.
- [87] <http://iltamtam.it/2009/01/08/centomila-nuove-sostanze-chimiche-immesse-nellambiente-negli-ultimi-50-anni/>
- [88] <http://minambiente.it/pagina/cosa-sono-1>
- [89] <http://yosemite.epa.gov/opa/admpress.nsf/d0cf6618525a9efb85257359003fb69d/333fd96bf551dafc85257af5005d7e1e!OpenDocument>
- [90] Crinnion MJ. Environmental Medicine, Part 2 – Health Effects of and Protection from Ubiquitous Airborne Solvent Exposure. *Altern Med Rev* 2000; 5 (2): 133-143.
- [91] Hill RH Jr, Ashley DL, Head SL et al. p-Dichlorobenzene exposure among 1,000 adults in the United States. *Arch Environ Health* 1995; 50: 277-280.
- [92] *Broad scan analysis of the FY82 national human adipose tissue survey specimens*. EPA Office of Toxic Substances. EPA 560/5-86-035.
- [93] Guengerich FP. Cytochrome p450 and chemical toxicology. *Chem Res Toxicol* 2008 January; 21 (1): 70-83.
- [94] <http://drnelson.uthsc.edu/human.P450.table.html>
- [95] Leclercq I, Desager JP, Horsmans Y. Inhibition of chlorzoxazone metabolism, a clinical probe for CYP2E1, by a single ingestion of watercress. *Clin Pharmacol Ther* 1998 August; 64 (2): 144-9.
- [96] https://tcd.ie/Biochemistry/local/VK_SS_Cancer_chemoprevention-Nature_Review.pdf
- [97] Nakamura Y, Miyamoto M, Murakami A et al. A phase II detoxification enzyme inducer from lemongrass: identification of citral and involvement of electrophilic reaction in the enzyme induction. *BBRC* 2003; 320, 593-600.
- [98] Moi P, Chan K, Asunis I, Cao A, Kan YW. Isolation of NF-E2-related factor 2 (Nrf2), a NF-E2-like basic leucine zipper transcriptional activator that binds to the tandem NF-E2/AP1 repeat of the beta-globin locus control region. *Proc Natl Acad Sci USA* 1994; 91 (21): 9926-30.
- [99] Motohashi H, Yamamoto M. Nrf2-Keap1 defines a physiologically important stress response mechanism. *Trends Mol Med* 2004; 10 (11): 549-57.
- [100] Jung KA and Kwak MK. The Nrf2 system as a potential target for the development of indirect antioxidants. *Molecules* 2010; 15 (10): 7266-91.
- [101] Dinkova-Kostova AT, Holtzclaw WD, Cole RN et al. Direct evidence that sulfhydryl groups of Keap1 are the sensors regulating induction of phase 2 enzymes that protect against carcinogens and oxidants. *Proc Natl Acad Sci USA* 2002; 99 (18): 11908-13.
- [102] King C, Rios G, Green M, Tephly T. UDP-glucuronosyltransferases. *Curr Drug Metab* 2000; 1 (2): 143-61.
- [103] Bock K, Köhle C. UDP-glucuronosyltransferase 1A6: structural, functional, and regulatory aspects. *Methods enzymol* 2005; 400: 57-75.
- [104] van Bladeren PJ. Glutathione conjugation as a bioactivation reaction. *Chem Biol Interact* 2000; 129 (1-2): 61-76.
- [105] Ketterer B. Glutathione S-transferases and prevention of cellular free radical damage. *Free Radic Res* 1998; 28 (6): 647-58.
- [106] Hayes JD, Strange RC. Glutathione S-transferase polymorphisms and their biological consequences. *Pharmacology* 2000; 61 (3): 154-66.

- [107] Negishi M, Pedersen LG, Petrotchenko E et al. Structure and function of sulfotransferases. *Arch Biochem Biophys* 2001; 390 (2): 149-57.
- [108] Habuchi O. Diversity and functions of glycosaminoglycan sulfotransferases. *Biochim Biophys Acta* 2000; 1474 (2): 115-27.
- [109] Glatt H, Meinel W. Pharmacogenetics of soluble sulfotransferases (SULTs). *Naunyn Schmiedebergs Arch Pharmacol* 2004; 369 (1): 55-68.
- [110] Jancova P, Anzenbacher P, Anzenbacherova E. Phase II drug metabolizing enzymes. *Biomed Pap Med Fac Univ Palacky Olomouc Czech Repub* 2010; 154 (2): 103-16.
- [111] Mulder GJ. *Conjugation reactions in drug metabolism: an integrated approach: substrates, co-substrates, enzymes and their interactions in vivo and in vitro*, Taylor and Francis, 1990.
- [112] Hodgson, *A Textbook of Modern Toxicology*, Wiley, 2010.
- [113] Yang YM, Noh K, Han CY, Kim SG. Transactivation of genes encoding for phase II enzymes and phase III transporters by phytochemical antioxidants. *Molecules* 2010; 15 (9): 6332-48.
- [114] Keppler D. Multidrug resistance proteins (MRPs, ABCs): importance for pathophysiology and drug therapy. *Handb Exp Pharmacol* 2011; 201: 299-323.
- [115] Klaassen C, Lu H. Xenobiotic Transporters: Ascribing Function from Gene Knockout and Mutation Studies. *Toxicological Sciences* 2008; 101 (2): 186-196.
- [116] Thiebaut F, Tsuruo T, Hamada H, Gottesman MM, Pastan I, Willingham MC. Cellular localization of the multidrug-resistance gene product P-glycoprotein in normal human tissues. *Proc Natl Acad Sci USA* 1987 November; 84 (21): 7735-8.
- [117] Klaassen C, Lu H. Xenobiotic Transporters: Ascribing Function from Gene Knockout and Mutation Studies. *Toxicological Sciences* 2008; 101 (2): 186-196.
- [118] Ercal N, Gurer-Orhan H, Aykin-Burns N. Toxic metals and oxidative stress part I: mechanisms involved in metal-induced oxidative damage. *Curr Top Med Chem* 2001; 1 (6): 529-39.
- [119] Patrick L. Lead toxicity part II: the role of free radical damage and the use of antioxidants in the pathology and treatment of lead toxicity. *Altern Med Rev* 2006; 11 (2): 114-127.
- [120] Nordberg M. Metallothioneins: historical development and overview. *Met Ions Life Sci* 2009; 5, 1-29.
- [121] Nordberg M. Metallothioneins: historical review and state of knowledge. *Talanta* 1998; 46 (2), 243-254.
- [122] Chelation Therapy. American Cancer Society. 1 November 2008. Retrieved 14 September 2013.
- [123] <http://webmd.com/balance/tc/chelation-therapy-topic-overview>
- [124] Atwood, K.C., IV; Woekner, E.; Baratz, R.S.; Sampson, W.I. Why the NIH Trial to Assess Chelation Therapy (TACT) should be abandoned. *Medscape Journal of Medicine* 2008; 10 (5): 115.
- [125] Liska DJ. The Detoxification Enzyme Systems. *Altern Med Rev* 1998; 3 (3): 187-198.
- [126] Moyer AM, Fridley BL, Jenkins GD et al. Acetaminophen-NAPQI Hepatotoxicity: A Cell Line Model System Genome-Wide Association Study. *Toxicol Sci* 2011; 120 (1): 33-41.
- [127] Bessems JG, Vermeulen NP. Paracetamol (acetaminophen)-induced toxicity: molecular and biochemical mechanisms, analogues and protective approaches. *Crit Rev Toxicol* 2001; 31 (1): 55-138.
- [128] Lauterburg BH, Corcoran GB, Mitchell JR. Mechanism of action of N-acetylcysteine in the protection against the hepatotoxicity of acetaminophen in rats in vivo. *J Clin Invest* 1983; 71 (4): 980-91.
- [129] Guengerich FP. Influence of nutrients and other dietary materials on cytochrome P-450 enzymes. *Am J Clin Nutr* 1995; 61 (3 Suppl): 651S-658S.
- [130] http://ncbi.nlm.nih.gov/gene?cmd=Retrieve&dopt=full_report&list_uids=217
- [131] Rehm J, Shield K. Alcohol consumption. In: Stewart BW, Wild CB, eds. *World Cancer Report 2014*, International Agency for Research on Cancer, 2014.
- [132] IARC Working Group, Alcohol drinking, Lyon. *IARC Monogr Eval Carcinog Risks Hum* 1988; 44: 1-378.
- [133] Homann N, Kärkkäinen P, Koivisto T, Nosova T, Jokelainen K, Salaspuro M. Effects of acetaldehyde on cell regeneration and differentiation of the upper gastrointestinal tract mucosa. *J Natl Cancer Inst* 1997; 89: 1692-1697.
- [134] Hamid A, Wani NA, Kaur J. New perspectives on folate transport in relation to alcoholism-induced folate malabsorption-association with epigenome stability and cancer development. *FEBS J* 2009; 276: 2175-2191.