Laboratory Evaluations for Integrative and Functional Medicine

2nd Edition

Richard S. Lord, and J. Alexander Bralley, Editors

Errata – Updated 01/26/12

***(Print viewers)* For further updates to this table see:** www.metametrixinstitute.org/leifm-errata

***(On-line viewers)* The page numbers in each line are inked to the respective PDF images.**

Chapter	Page	*	Section (Explanation)	Change	To
1	13	c	Figure 1.3	ug/mg creatinine	mg/L
2	19	c	Table 2.1 (For consistency among other sections)		
	19		- Vitamin B3 (Niacin)	50–3000 mg	100–1000 mg
	19		- Folate	5–150 mg	200–800 µg
	19		- Coenzyme Q10	10–3000 mg	10–300 mg
	19		- Choline	1–12 g	1–2 g
	22	c	Figure 2.1	Structure of beta-carotene is missing a double bond on the left hand side of the molecule between the first and second carbon in from the hydrocarbon ring	Insert double bond (VIEW)
	24	c	Col 1, top, "Adult repletion:"	50 to 200 mg/d	50 to 300 mg/d
	26	c	Col 1, last paragraph	alpha-hydroxyisovalerate	beta-hydroxyisovalerate
	28	t	Col 2, "Of Further Interest," line 15	niacinaminde	niacinamide
	34	e	Figure 2.9 – Added brackets	Added three brackets:	Recovery, Biosynthesis, and Utilization (VIEW)
	38	t	Col 1, paragraph 3, line 1	< 0.3	< 3.0
	39	c	Biotin	Deficiency tests: α-hydroxyisovalerate - urine	Deficiency tests: β-hydroxyisovalerate - urine
	39	c	Col 2, paragraph 3 (3 instances)	alpha-hydroxyisovalerate	beta-hydroxyisovalerate
	42	c	Figure 2.14	Previtamin D structure	(See PDF)
	46	t	Figure 2.15, right hand column header	Biological Activity % of -Tocopherol	Biological Activity % of α-Tocopherol (VIEW)
	49	e	Carnitine figure enhanced: carnitine, and O-hexanoyl-(L)-carnitine	Replace figure	New figure (VIEW)
	56	t	Case Illustration 2.4, line 2	Delete word: urinary	plasma homocysteine
3	67	c	Table 3.1, Vanadium, dosage	9 µg–125 mg (as vanadyl sulfate)	9–250 µg

* c: correction; t: typographical; e: enhancement

Chapter	Page	*	Section (Explanation)	Change	To
	96	c	Figure 3:11, replace symbols placed before His, Leu, and Cys	- His, - Leu, -Cys	His, Leu, Cys (VIEW)
	114	e	Figure 3.17, deleted small lines around Tyr in box I. for clarification		(VIEW)
	116	t	Col 1, line 1	200–100 µg	200–1000 µg
	118	c	Col 2, Vanadium, dosage	9 µg–125 mg	9–250 µg
	119	c	Table 3.8, reference	666	673
	124	t	Col 1, last paragraph	acculates	accumulates
	131	c	Col 2, last paragraph, references	837 and 838	838 and 837
	143	t	Figure 2A (Aluminum)	1.8 H | 1.8 | 2.0	1.8 H | 1.8 H | 2.0 H
	167	c	Reference 673	(Vol & pp missing)	;26(2):193-207.
	167	t	Reference 695	Novermber	November
	179	t	Figure 4.1 (Essential Amino Acids)	Valane	Valine
4	193	e	Of Further Interest (text replacement) Col 1, line 5	In perivenous hepatocytes, on the other hand, Gln synthesis and export is very active.	On the perivenous side, lack of urea cycle activity to remove bicarbonate causes higher intracellular pH, driving synthesis and export of glutamine.
	201	c	Figure 4.11, shaded green box	(Missing text)	ADMA – Asymmetric Dimethylarginine PRMT – Protein arginine methyl transferase DDAH – Dimethylarginine dimethylaminohydrolase NOS – Nitric oxide synthase
	207	t	Figure 4.12, top	Branch-chain	Branched-chain
	208	c	Figure 4.13, line 5	Figure 4.21	Figure 4.20
	223	c	Figure 4.20 and Back Cover	Move X → X-CH_3 reaction	The methyl donor reaction is associated with the SAM → SAH reaction (VIEW)
	231	t	Figure 4.22	Acetyl CoA (Brain) Phosphotidyl choline	Acetylcholine Phosphatidyl choline
	231	c	Figure 4.22	(Missing arrow)	An arrow pointing from Phosphoethanolamine to Phosphatidyl choline
	232	c	Figure 4.23	Remove "THP" from the "Folate Rings" structure	Add entry arrow for "THF" prior to "Folate Rings" structure (VIEW)
	234	t	Figure 4.24	Sacosine dehydrogenase	Sarcosine dehydrogenase
	240	c	Figure 4.27 (top right)	Zn^{++} Enzyme	Zn^{++} Carnosinase
	241	c	Col 2, paragraph 2, last sentence	β-alanine is	β-alanine, are
5	272	c	Table 5.1, No. 9	Corn or black currant oil	Corn
	284	t	Figure 5.9, "Peroxisome"	22:6n5	22:6n3
	286	t	Figure 5.10	Eicosapentaente Dihomogammalinnoleate	Eicosapentaenoate Dihomogammalinnolenate

* c: correction; t: typographical; e: enhancement

Chapter	Page	*	Section (Explanation)	Change	To
	292	t	Table 5.3, Col 2, row 11	palmiteladic	palmitelaidic
	303	c	Col 1, paragraph 3, line 16	while short chain	while medium chain
	306	c	Case III 5.1, paragraph 1, line 4	low 2nd	1st
6	322	c	Table 6.1, Fumarate	(omitted entry for High result)	CoQ10, 50 mg TID, magnesium 500 mg
	322	c	Table 6.1, β-Hydroxyisovalerate	Isoleucine catabolism	Leucine catabolism
	328	c	Figure 6.2	"Intestinal Bacteria" label and arrow below it	Move label and arrow outside of Hepatocyte cell
	332	c	Figure 6.4, caption, line 6	E_2	E_3
	333	t	Col 2, 2nd paragraph	studying of the metabolic	studying the metabolic
	342	c	Figure 6.8	Separate arrow at Isoleucine on Transamination side	Leucine to β-Hydroxyisovalerate and Isoleucine to Methylmalonate
	351	c	Homovanillate (HVA) structure	Replace "COOH" on far right	CH_3
	356	c	Figure 6.14, 1st reaction	(omitted reactant)	Add superoxide (O_2•)
	356	c	Figure 6.14	Quinolinate to Nicotinate pathway	Include Nicotinic acid mononucleotide intermediate
	357	c	Figure 6.15 A, metabolic intermediates out of order	3-Hydroxyanthranilate → 3-Hydroxykynurenate	3-Hydroxykynurenin → 3-Hydroxyanthranilate
	357	t	Figure 6.15 A	Nicotinic Acid	Nicotinate
	359	c	Col 1, paragraph 4, line 6	elevated, so that	elevated (> 2.0), so that
	361	c	Structure of 8-OHdG	(Ring substituents)	See structure on page 530
	371	c	Figure 6.24	(omitted table headers)	The 1st row of each table should contain the words, Example, and Sources
	372-373	c	Table 6.11 (reference numbers incorrect, except for No. 13)	Entire sequence from 409 through 422	Sequentially replace with 459 through 472 (See page 409)
	373	c	Table 6.11	406	455 (See page 409)
	376	t	Figure 6.26, caption, line 3	causes	cause
	376	t	Figure 6.26, caption, line 3	Abnomally	Abnormally
	379	c	Figure 6.28	(Missing citation)	Add reference: 517
	386	t	Table 6.15, title	D-Lactate	Lactate
	388	t	Col 1, line 8	normal DAl levels	normal DA levels
	410	c	Reference 508	Machino H, Miki Y, Kawatsu T, et al. Successful dietary control of tyrosinemia II. J Am Acad Dermatol. 1983;9(4):533-539.	Uribarri J, Oh MS Carroll HJ. D-lactic acidosis. A review of clinical presentation, biochemical features, and pathophysiologic mechanisms. *Medicine (Baltimore)*. 1998;77(2):73-82.
	416	t	Col 2, paragraph 2	(GED)	(GERD)
	426	c	Col 2, formula after paragraph 1	% Compound Absorption = Compound Concentration (mg/mL) x Urine volume (mL) x 100	% Absorption = ((Conc. x Urine volume) ÷ Amt. of Compound administered) x 100

* c: correction; t: typographical; e: enhancement

Chapter	Page	*	Section (Explanation)	Change	To
	433	t	Col. 1, paragraph 1, line 13	arthritities	arthritis
	438	c	Col. 2, line 7 after Table 7.5	Colonocytes, such as hepatocytes	Colonocytes, as well as hepatocytes
8	480-481, and 508	c	References for the citations in the "Phthalates" section were omitted, and the citation numbers were used redundantly on pp 481–2 and in Figure 8.7.	References 64–73 on page 508 are for the citations on pp 481–2.	A label containing the references for the "Phthalates" section was pasted onto p. 512. (Corrections to the references were made in the CD version included with the book.)
	482	t	Table 8.6, last row	Coproporphyrin II Copro II	Coproporphyrin III Copro III
	487	t	Col 1, paragraph 1, line 8	uroporporphyrinogen	uroporphyrinogen
	488	c	Table 8.12	(omitted from row 1 [Arsenic] under Urinary Porphyrin Elevation)	Heptacarboxyporphyrin Hexacarboxyporphyrin
	496	t	Table 8.18, under "Xenobiotics / Glycine Conjugation"	Alphatic	Aliphatic
	500	e	Figure 8.16, Phase II, Result	o-Hydroxyhippuric acid | 7 Acetaminophen Sulfate | 7	o-Hydroxyhippuric acid | 7 **L** Acetaminophen Sulfate | 7 **L**
	500	c	Figure 8.16, Ratios section; legend, line 2	1. Report image "Ratios" section; 2. Legend text: 1st sentence	1. Delete Ratios section; 2. Delete ", producing elevations in all three Phase I/Phase II ratios"
	502	t	Col 1, line 11	tryptohan	tryptophan
	529	t	Figure 9.6, Title, line 1	Peroxynitrate	Peroxynitrite
	529	t	Col 2, paragraph 3, line 2	(remove comma) kidney, injury)	kidney injury
9	531	c	Col 2, paragraph 2, line 12, delete final sentence	HGA causes oxidation of hemoglobin that is altered by the presence of SOD and catalase.[197]	
	532	c	Col 1, paragraph 2	Insert sentence at end of paragraph 2	HGA causes oxidation of hemoglobin that is altered by the presence of SOD and catalase.[197]
10	553	t	Col 1, paragraph 3, line 4	Table 10.3	Table 10.4
	554	t	Col 2, paragraph 2, line 5	malnutrtrion	malnutrition
	561	t	Figure 10.4, line 2	Thre	The
	570	c	Table 10.8, row 4	Estrogen Metabolite Ratio	Estrogen Metabolite Index
	575	c	Figure 10.11	PIP2 →PDK1 activation	PIP3 → PDK1 activation
	575	t	Figure 10.11, caption, line 11	NF-kb	NF-κB
11	596	t	Figure A	Gylcine	Glycine
	603	t	Col 2, paragraph 3, line 1	Abnormally high values	Abnormal values
12	616	t	Table 12.21, Vitamin E, row2	Delete "—"	
	660	e	Common Abbreviations Table	Add abbreviation	CLA | conjugated linoleic acid

* c: correction; t: typographical; e: enhancement

Chapter	Page	*	Section (Explanation)	Change	To
	660	e	Common Abbreviations Table	ALA | alpha linolenic acid	ALA | alpha lipoic acid, alpha linolenic acid, 5-alpha levulinic acid (VIEW)
	BC	e	Back Cover and Figure 4.20	Move X → X-CH_3 reaction	The methyl donor reaction is associated with the SAM → SAH reaction (VIEW)

98450 rev.012612

* c: correction; t: typographical; e: enhancement