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CORRECTION



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Correction: Confocal Raman microspectroscopy for skin characterization: a comparative study between human skin and pig skin

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Correction for 'Confocal Raman microspectroscopy for skin characterization: a comparative study between human skin and pig skin' by Sana Tfaili *et al., Analyst,* 2012, **137**, 3673–3682, DOI: 10.1039/C2AN16292J.

The authors regret that the assignment of the Raman vibration at 1047 cm^{-1} in Table 2 is incorrect in the original article. The correct version of Table 2 is shown below.

The Royal Society of Chemistry apologises for these errors and any consequent inconvenience to authors and readers.

Table 2 Raman band assignment^a

SC surface			SC/epidermis			Epidermis				
Transk	in I	Pig skin	Transki	n P	ig skin	Tran	skin	Pig	skin	Assignment
	427									Cholesterol ¹²
459		457	457			457				Polysaccharides ¹³
	486		486			486				Glycogen ¹⁴
	519		519							Phospholipids ¹³
	529		529		527			ν (S-S) in keratin, ν (S-S) disulfide in proteins, ^{14,15} ceramides, ¹⁶ ν (S-S) gauche-		
								gauche-trans (amino acid cysteine) ^{17¹}		
546		545	541			543				Glucose-saccharide band, cholesterol ¹⁷
	564			564			56	564		Polysaccharides ¹³
				582			58	32		δ OH out of plane ¹⁸
	597		597		597			Phospholipids ¹⁷		
	605		605		607		60)5		Glycerol ¹⁷
							61	19		$\gamma_t C-C (\text{protein})^{19}$
624		622	624		622		62	24		γ_t C–C mode of phenylalanine (proteins) ^{14,15,20}
	646			646			64	16		γ_t C–C mode of tyrosine, cysteine ¹²
	667			667			66	57		T, G $(DNA/RNA)^{20}$
	701			701			70)1		ν (C–S) <i>trans</i> (amino acid methionine), ²¹ cholesterol, cholesterol ester ¹⁷
	724			722			72	24		DNA ²²
	745		747		749		74	19		T (ring breathing mode of DNA/RNA bases), ¹⁹ DNA, ²² symmetric breathing of tryptophan (protein assignment) ^{12,14,15,23}
	803			803			80)3		Uracil-based ring breathing mode ²⁴
829		828	828		826	82	28	82	27	Out-of-plane ring breathing, tyrosine (1 st peak of the Fermi doublet), ^{14,15} phosphodiester, ²⁵ ν O–P–O DNA/RNA ²⁰
	854			854			85	54		Tyrosine (1^{st} peak of the Fermi doublet) and polysaccharide ²⁶
	897			898		89	96	89	98	Saccharide band, ¹⁷ monosaccharides (β-glucose), (C–O–C) skeletal mode, ²⁵ phosphodiester, deoxyribose ²¹
				930						ν (C–C), probably in amino acids (protein band) ²⁷
936		937		937		93	86	93	37	ν (C-C), α -helix (proteins), amino acid side chain vibrations ¹²
	987		987			983				$\nu(C-C)$, β -sheet (proteins) ²⁰
	1003			1003			10	03		Phenylalanine ¹²

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SC surface	e	SC/epider	mis	Epidermis	5	
Transkin	Pig skin	Transkin	Pig skin	Transkin	Pig skin	Assignment
1031		10	31	1031		O–CH ₃ ν of methoxy groups ¹⁸ δ (C–H), phenylalanine (protein assignment) Phenylalanine, ν (C–N) of proteins ²³
1047	1047					$\nu PO_4^{3-,12}$ C–C and C–O stretching in HA
10	1062		1062 1059		62	ν (C–C) skeletal, lipids ²⁸
10	1082		82	10	82	ν (C–C) or v(C–O), phospholipids (lipid assignment), ²³ phosphate vibrations (phosphodiester groups in nucleic acids), ²⁹ nucleic acids ³⁰
			95	10	95	Lipid, $\nu(C-N)$, ν^{2} phosphodioxy group in nucleic acids ²⁰
111	1128		28	112/	1129	$\nu(C-N)$, $\nu(C-C)$ skeletal <i>trans</i> conformation, ν phospholipid
11	1155		55	11	55	V(C-C) & (C-N) of proteins (also carotenoids), ' glycogen
11/3	11/5	11/5		11/3 11/5		Cytosine, guanine $(0, 0, 11)$ transported and a second s
12	07	1206	1205	12	05 4.4	$V(C-C_6H_5)$, tryptopnan, pnenylaianine (protein assignment) One of the two most distinct nodes for DNA (with 812 cm ⁻¹) ¹⁹ (C T) ¹⁴
10	4055		1244		44 50	Une of the two most distinct peaks for RNA (with 813 cm $)$, (C, 1) Lipide ³⁰ (doublet with the 1907 peak) emide III. adopting attacing ¹⁴
12	1255		1255		20 71	Amide III ¹⁴ C. H. (linid) ²⁹
12	/1	1200	12/1	12	71 04	Cutosino ²⁵
10	1207		1200 1301		94 02	δ CH linid ¹³ adenine autosine ¹⁴
12	57	1255 1501		1302		C_{12}^{H} (CH 21
13	30	1336	1339	1338	1339	Nucleic acid mode ^{6,35}
13	1389		1387		89	CH ₂ hand ¹⁴ δ CH ₂ symmetric (lipid) ²⁶
10	05	13	93	1393		CH rocking ²⁰
14	1416		50	1000		$\nu(C=0)$ of COO ⁻ (amino acids aspartic & glutamic acid) ²¹
1442	1441					Cholesterol. ³² fatty acids. ^{30,37} δ CH ₂ , δ CH ₃ . ³⁸
		1449	1451	1449	1451	δ CH ₂ , δ CH ₃ , ^{12,29,38} C-H vibration (proteins), C-H vibration (lipids) ²⁰
1526		1526		1526		$-C = C - \text{carotenoid}^{14}$
15	1545		1545		46	Tryptophan ^{14,15}
15	1561				62	Tryptophan ²⁷
15	1588		85	15	86	$\delta \stackrel{\circ}{C} = C$ mode of phenylalanine, $^{12,27} \nu$ (C=C) olefinic (protein assignment) ²⁶
16	1604		04	16	04	δ C=C in-plane mode of phenylalanine & tyrosine, ^{14,15} cytosine (NH ₂) ²⁵
16	1613		1613		13	Tyrosine ¹²
1652	1652 1653		1653		53	ν (C=O) amide I, ²³ amide I α -helix, ³⁹ lipid ν (C=C), ^{14,29} carbonyl ν (C=O) ²⁴ and elastin (protein assignment) ^{23,26}
16	71	16	1671		71	Amide I band (ν C=O coupled to a δ N-H), ^{17,40} ceramides ¹⁷
		1724		1724		(2, 0) OUT (main with second 1.0 of the initial) ²¹
17	42	17	42	17	42	$\nu(C=O)OH$ (amino acids aspartic & glutamic acid)
27	2724		2727		24	$\nu \operatorname{CH}^{41}$
27	2724		27	27	24	ν CH ₂ symmetric of lipids, ν CH ₃ symmetric of lipids ⁴²
28	2849		2850		49	ν CH ₂ asymmetric of lipids and proteins ⁴²
28	2880		2880		80	ν CH ₂ asymmetric of lipids and proteins ⁴²
28	2889		2889		89	νCH_2 asymmetric ⁴²
29	2934		2934		34	ν CH*3

 $^{a}\gamma_{t}$: twisting (torsion), δ : bending or deformation, ν : stretching, ρ : rocking, A: adenine, C: cytosine, G: guanine, T: thymine.