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Supporting information for article:

Challenges and solutions for the analysis of *in situ*, *in crystallo* micro-spectrophotometric data

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Supporting information

Table S1 Chromophore distribution in X-ray diffraction based PDB structures by year of deposition (as of January 27, 2014).

Chromophore containing X-ray structures	Fraction	Year	PLP	NAD/NDP/NAP	FAD/FMN	Hem	Mn	Fe	FeS	SF4	Co	Ni	Cu	CLA/ CHL BCA/ BCL	Ret	pterin	Lumi
142	586	24%	1990	11	14	6	75	7	9	1	4	4	10	0	0	1	
292	1319	22%	1992	13	34	28	118	24	17	2	10	11	31	0	2	2	
642	2662	24%	1994	32	61	68	251	69	31	6	34	20	4	58	0	6	2
1055	4475	23%	1996	48	126	121	354	139	57	12	46	27	12	96	1	9	3
1739	7416	23%	1998	94	205	181	521	206	123	28	100	42	39	158	2	13	9
2757	11584	23%	2000	187	321	305	763	318	185	58	135	79	78	204	4	23	25
3910	16569	23%	2002	260	479	453	1011	471	254	95	180	103	113	278	7	37	48
5500	24241	22%	2004	340	720	628	1323	699	367	144	245	168	179	357	16	50	74
7394	34103	21%	2006	431	993	912	1647	966	524	208	300	228	273	459	23	66	91
9376	45999	20%	2008	543	1289	1224	2035	1231	677	261	345	280	372	566	29	90	102
10585	52730	20%	2009	576	1473	1428	2245	1374	768	311	384	336	454	632	37	92	115
11861	59899	19%	2010	599	1643	1635	2553	1531	846	357	440	379	534	715	45	93	123
13154	67312	19%	2011	634	1859	1800	2795	1718	947	390	486	435	604	814	45	97	140
14481	75267	19%	2012	668	2052	2022	3041	1917	1043	421	531	478	696	888	52	102	154
15211	80231	18%	2013	684	2152	2112	3240	2036	1077	436	556	505	748	920	54	108	161
15213	80250	18%	2014	684	2152	2112	3241	2036	1077	436	556	505	748	921	54	108	161
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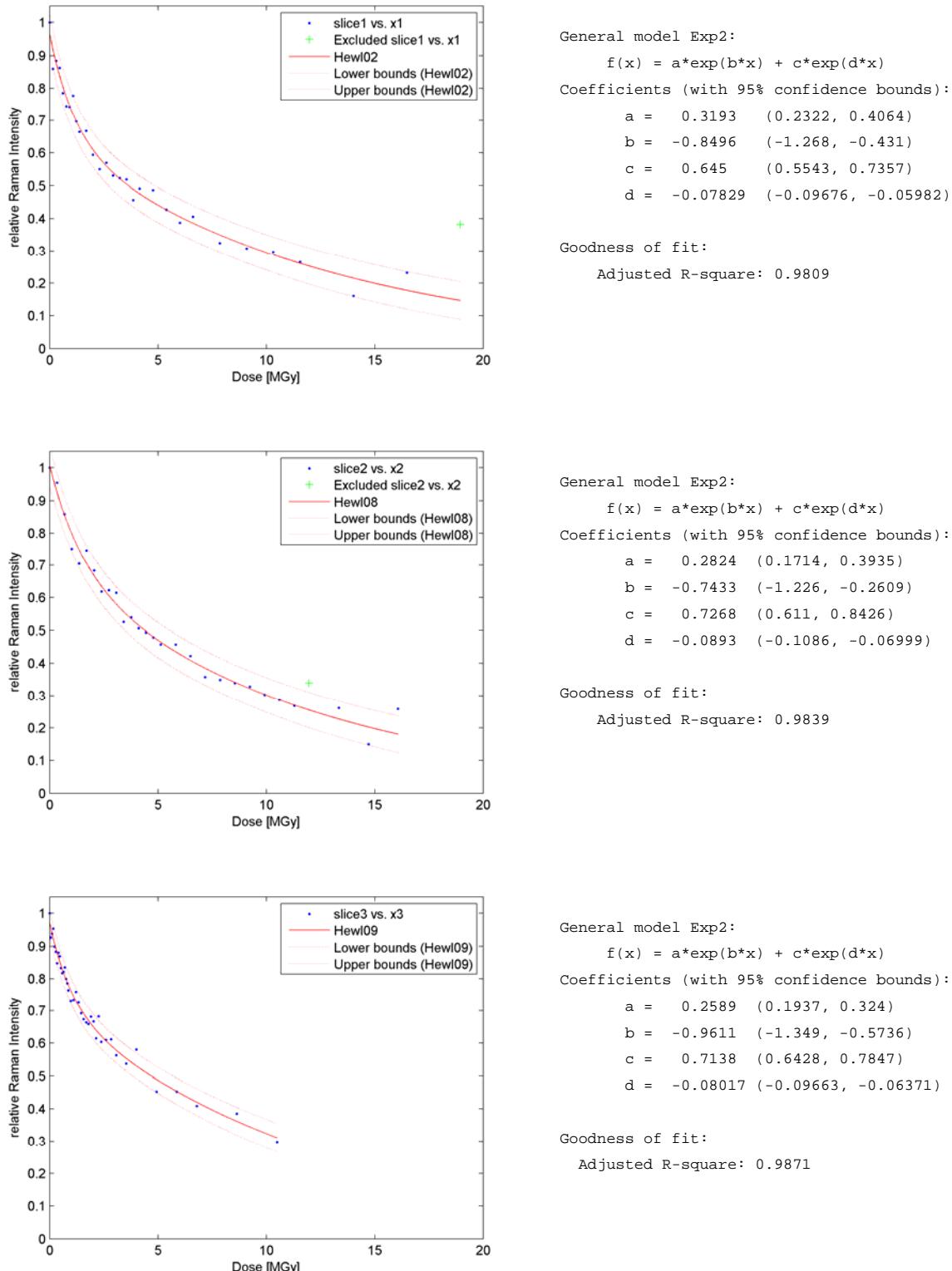


Figure S1 Fit of double exponential to decay data of S-S bonds in HEWL upon X-ray irradiation at 12.4 keV (top), 8.0 keV (middle), and 15.0 keV (bottom). Measured by non-resonance Raman spectroscopy at 785 nm Laser excitation. Decay of peak at 507 cm⁻¹ is plotted against received dose. For fitting the Matlab Curve Fitting Toolbox was used.