

Erratum

**Erratum to “A novel tensor distribution model
for the diffusion-weighted MR signal”
[NeuroImage 37 (2007) 164–176]**

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Because of errors introduced by the typesetter, the following corrections should be made:

- Equation (4) currently displayed as

$$S(\mathbf{q}) = S_0 \int_{\mathcal{P}_n} \exp[-b\mathbf{g}^T \mathbf{D}\mathbf{g}]$$

$$dF = S_0 \int_{\mathcal{P}_n} f(\mathbf{D}) \exp[-b\mathbf{g}^T \mathbf{D}\mathbf{g}] d\mathbf{D}$$

is incorrect. The correct form is

$$\begin{aligned} S(\mathbf{q}) &= S_0 \int_{\mathcal{P}_n} \exp[-b\mathbf{g}^T \mathbf{D}\mathbf{g}] dF \\ &= S_0 \int_{\mathcal{P}_n} f(\mathbf{D}) \exp[-b\mathbf{g}^T \mathbf{D}\mathbf{g}] d\mathbf{D}. \end{aligned}$$

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- Equation (5) currently displayed as

$$S(\mathbf{q}) = S_0 \int_{\mathcal{P}_n} \exp(-b\mathbf{g}^T \mathbf{D}\mathbf{g})$$

$$dF = S_0 \int_{\mathcal{P}_n} \exp(-\text{trace}(\mathbf{B}\mathbf{D}))$$

is incorrect. The correct form is

$$S(\mathbf{q}) = S_0 \int_{\mathcal{P}_n} \exp(-b\mathbf{g}^T \mathbf{D}\mathbf{g}) dF$$

$$= S_0 \int_{\mathcal{P}_n} \exp(-\text{trace}(\mathbf{B}\mathbf{D})) dF.$$

- In Eq. (8), $(\Theta + \Sigma - 1) \in \mathcal{P}_n$ is incorrect and should read $(\Theta + \Sigma^{-1}) \in \mathcal{P}_n$.
- Equation (10) currently displayed as,

$$S(\mathbf{q})/S_0(1 + (b\mathbf{g}^T \hat{\mathbf{D}}\mathbf{g})/p)^{-p}$$

is incorrect. The correct form is

$$S(\mathbf{q}) = S_0(1 + (b\mathbf{g}^T \hat{\mathbf{D}}\mathbf{g})/p)^{-p}.$$

- On page 168, in the last line of text before Eq. (16), $F(\mathbf{D})$ should be changed to dF .
- In Fig. 2, the range of the x axis, “std. dev. of noise,” should be from 0 to 0.1 as stated in the text, not from 0 to 1 as currently displayed in Fig. 2.
- Eq. (18) currently displayed as

$$(2\pi i)^{-n(n+1)/2} \int_{\text{Re}\mathbf{Z}=\mathbf{X}_0} \mathcal{L}f(\mathbf{Z}) \exp[\text{trace}(\mathbf{Y}\mathbf{Z})]$$

$$d\mathbf{Z} = \begin{cases} f(\mathbf{Y}), & \text{for } \mathbf{Y} \in \mathcal{P}_n \\ 0, & \text{otherwise} \end{cases}$$

is incorrect. The correct form is

$$(2\pi i)^{-n(n+1)/2} \int_{\text{Re}\mathbf{Z}=\mathbf{X}_0} \mathcal{L}f(\mathbf{Z}) \exp[\text{trace}(\mathbf{Y}\mathbf{Z})] d\mathbf{Z}$$

$$= \begin{cases} f(\mathbf{Y}), & \text{for } \mathbf{Y} \in \mathcal{P}_n \\ 0, & \text{otherwise.} \end{cases}$$