Message

From: Kraft, Andrew [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=4A94A4F199B247778ABB02285A51B927-KRAFT, ANDREW]
Sent: 2/6/2013 1:12:45 PM
To: Süleyman Kaplan [skaplan@omu.edu.tr]
CC: Kraft, Andrew [Kraft.Andrew@epa.gov]
Subject: RE: Formaldehyde neurodevelopmental studies

Dear Dr. Kaplan,

Thank you for the previous information on your stereological studies. I had another request for information that I was hoping you could help me with.

We are moving forward with trying to calculate a candidate RfC based on the CA neuron loss reported in Sarsilmaz et al. (2007).

I was hoping to calculate and use the litter means data for this endpoint, so I was hoping that you might be able to provide the following:
- the individual animal data for the CA neuron counts reported in this paper
(as I would also like to calculate the litter means for the DG neuron counts reported in Aslan et al., 2006, it would be great if you can provide this data as well)
- the litter assignments for the above data (i.e., which groups of 1 or 2 rats came from the same dams)

As you are aware, the information on the potential developmental neurological effects of inhaled formaldehdye is quite scarce; it would be very useful if you could provide this additional information.

Thank you again for your assistance. FYI: we are hoping to release the next draft of this assessment for peer review in the next few months.

Best Regards,
Andrew

Andrew Kraft, PhD I 703-347-0221
Biologist, Office of Research and Development
National Center for Environmental Assessment
U.S. Environmental Protection Agency

From: Süleyman Kaplan <skaplan@omu.edu.tr>
To: Andrew Kraft/DC/USEPA/US@EPA
Cc: <skaplanomu@ Ex. 6 Personal Privacy (PP)
Date: 02/18/2012 06:48 AM
Subject: RE: Formaldehyde neurodevelopmental studies

Dear
Andrew Kraft
Biologist,
US EPA Office of Research and Development
National Center for Environmental Assessment
Washington, DC USA

Thank you very much for kindly comment on our papers that were published previously.

"We are currently revising the draft Toxicological Review of Formaldehyde and I was hoping that you could provide me with the sex of the neonatal animals that were exposed in these studies, as well as the number of litters (and whether the exposure groups were randomized across litters) used to produce each group of 5 rats?"

"I noticed that male rats were assessed in Aslan et al., but could not find this information in Sarsilmaz et al."

We used the male rats for Sarsilmaz et al. study also, but it was mistakenly forgotten to be mentioned in that paper.

We used three mothers for each group of rats so that we can collect 6 animals for each group. Each two rats were selected from the same mother.

I would be very happy to hear if you need more information on these experiments.

Best regards,

Prof. Dr. Süleyman Kaplan
President of Turkish Society for stereology,
Director of Health Sciences Institute
Ondokuz Mayıs University
Head of Department of Histology and Embryology
Ondokuz Mayıs University, Samsun, Turkey

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-----Original Message-----
From: Andrew Kraft [mailto:Kraft.Andrew@epamail.epa.gov]
Sent: Monday, February 13, 2012 8:46 PM
To: skaplan@omu.edu.tr
Cc: Andrew Kraft
Subject: Formaldehyde neurodevelopmental studies

Hello Dr. Kaplan,

I read with great interest the two following studies on formaldehyde's effects on the developing nervous system:
Sarsilmaz et al. (2007) "Effects of postnatal formaldehyde exposure on pyramidal cell number, volume of cell layer in hippocampus and hemisphere in the rat: a stereological study"
Aslan et al. (2006) "Effects of formaldehyde exposure on granule cell number and volume of dentate gyrus: a histopathological and stereological study"

We are currently revising the draft Toxicological Review of Formaldehyde and I was hoping that you could provide me with the sex of the neonatal animals that were exposed in these studies, as well as the number of litters (and whether the exposure groups were randomized across litters) used to produce each group of 5 rats? I noticed that male rats were assessed in Aslan et al., but could not find this information in Sarsilmaz et al..

Thank you for any help or redirection you can provide. I wish you continued success in your research.

Best Regards,

Andrew Kraft

Biologist, US EPA Office of Research and Development
National Center for Environmental Assessment
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