

Workshop on the Pathobiology of Cerebral Cavernous Malformations

Washington Duke Inn
Duke University
Durham, North Carolina

Friday, November 18, 2005

WORKSHOP AGENDA

7:30 AM Continental Breakfast

Session I. Welcome and Introduction

8:00 Connie Lee (President: Angioma Alliance) Welcome from Angioma Alliance

8:10 Douglas Marchuk (Duke Univ.) Workshop Objectives and Goals

Session II. Clinical Phenotype of CCM and its Pathobiological Implications Chair: Issam Awad

8:20 Issam Awad (Northwestern Univ.) Anatomy of the CCM lesion

8:50 Michel Berg (Univ. of Rochester). Clinical Trials in CCM

9:05 Eric Johnson (PreventionGenetics) The CCM Biobank/Registry

9:20 GROUP DISCUSSION

9:50 *Coffee break*

Session III. Human Genetic Studies in CCM Chair: Judith Gault

10:00 Dominique Verlaan (McGill Univ.) Genetic studies of CCM kindreds

10:15 Christina Liquori (Duke Univ.) Possibility of an additional CCM gene

10:30 Judith Gault (Univ. of Colorado) Somatic mutations in CCM tissue

11:00 GROUP DISCUSSION

11:30 Lunch

Session IV. Animal Models of CCM Chair: Douglas Marchuk

12:30 Brent Derry (Toronto: Hosp. for Sick Children) KRI-1, the KRIT1 ortholog in *C. elegans*

1:00 Kevin Whitehead (Univ. of Utah) Embryonic phenotype of CCM1 and CCM2 mutant mice

1:30 Nicholas Plummer (NIEHS) A "gene trap" CCM2 mouse: Expression of CCM2

1:45 Robert Shenkar (Northwestern Univ.) Advanced imaging of CCMs: Preliminary observations and pathobiologic and clinical implications.

2:10 **GROUP DISCUSSION**

2:40 *coffee break*

Session V. Cellular and Biochemical Studies of CCM
Chair: Gary Johnson

2:50 Murat Gunel (Yale Univ.) Studies of CCM1 and CCM2 protein

3:20 Amy Jacon (Duke Univ.) Anatomic expression pattern of the CCM1 and CCM2 protein

3:35 Jun Zhang (Johns Hopkins) New insights into CCM pathogenesis

4:00 Gary Johnson (Univ. of North Carolina) CCM1 and CCM2: Role in cell signaling

4:30 **GROUP DISCUSSION**

Session VI. Concluding Remarks: Workshop Summary and Future Directions for Research

5:00 **Translational:** Issam Awad (Northwestern Univ.)

5:05 **Molecular Genetics:** Douglas Marchuk (Duke Univ.)

5:10 **Biochemical and Cellular Studies:** Gary Johnson (Univ. of North Carolina)

5:15 **Adjournment:** Connie Lee (President: Angioma Alliance)