Second International Chordoma Research Workshop
April 3–5, 2008
NIH Neuroscience Conference Center, North Bethesda, Maryland

Agenda

Thursday, April 3, 2008

7:15 a.m.  Registration and Continental Breakfast

8:00 a.m.  Welcome, Introductions, and Goals for Workshop
           Paul Meltzer, M.D., Ph.D., Center for Cancer Research, National Cancer Institute
           Steve Groft, Pharm.D., Office of Rare Diseases, National Institutes of Health

SESSION I: UPDATE ON THE 2007 CHORDOMA RESEARCH ROADMAP
           Moderator: Paul Meltzer, M.D., Ph.D.

8:10 a.m.  Summary of First International Chordoma Research Workshop in May 2007
           Francis Collins, M.D., Ph.D., National Human Genome Research Institute

8:20 a.m.  Laying the Foundation— the Chordoma Foundation’s First Year and Beyond
           Josh Sommer, Chordoma Foundation
           Simone Sommer, M.D., M.P.H., Chordoma Foundation

8:40 a.m.  Clinical Overview of Chordoma
           Fran Hornicek, M.D., Ph.D., Massachusetts General Hospital

SESSION II: NEW RESEARCH ON THE GENETICS AND GENOMICS OF CHORDOMA
           Moderator: Francis Collins, M.D., Ph.D.,

9:00 a.m.  High-Resolution Profiling of the Chordoma Genome
           Paul Meltzer, M.D., Ph.D.

9:20 a.m.  Application of Expression Analysis to Chordoma
           Mike Kelley, M.D., Duke University

9:40 a.m.  TSC/mTOR Pathway in Chordomas
           Vijaya Ramesh, Ph.D., Massachusetts General Hospital

10:00 a.m. Systems Approaches to Dissecting Signaling Pathways in Chordoma
           Ramnik Xavier, M.D., Massachusetts General Hospital

10:20 a.m.  Panel Discussion

10:40 a.m.  Break and Poster Session Set-up
SESSION III: CHORDOMA DEVELOPMENT AND PATHOGENESIS
Moderator: Justin Cates, M.D., Ph.D., Vanderbilt University Medical Center

11:00 a.m. Development of the Notochord
Derek Stemple, Ph.D., Wellcome Trust Sanger Institute

11:20 a.m. Developing a Mouse Model for Chordoma
Brian Harfe, Ph.D., University of Florida

11:40 a.m. The Tale of the Ferret: What We Know of Ferret Notochord and Chordoma
Andrew Rosenberg, M.D., Massachusetts General Hospital

12:00 p.m. Clinical Results in a Series of 71 Clival Chordomas and Correlation of Survival to the Expression of E and N Cadherins
Chandranath Sen, M.D., St. Luke’s Roosevelt Hospital

12:20 p.m. Potential Therapeutic Targets for Chordoma
Nadege Presneau, Ph.D., University College London Cancer Institute

12:40 p.m. Panel Discussion

1:00 p.m. Lunch and Poster Session

SESSION IV: TARGETED TREATMENT DEVELOPMENT
Moderator: Chris Austin, M.D., National Human Genome Research Institute

2:30 p.m. Update of a Phase II Study of Sunitinib for Recurrent/Metastatic Chordoma and Other Sarcomas
Robert Maki, M.D., Ph.D., Memorial Sloan-Kettering Cancer Center

2:50 p.m. In Vitro Characterization of Chordoma Cells
Deric Park, M.D., University of Pittsburgh Cancer Institute

3:10 p.m. Rationale for Tyrosine Kinase Inhibitors in Chordomas
Elena Tamborini, Ph.D., Fondazione IRCCS Istituto Nazionale dei Tumori

3:30 p.m. Developing Rationally Targeted Therapies for Chordoma: What Can Be Learned from Other Forms of Sarcoma?
George Demetri, M.D., Dana-Farber/Harvard Cancer Center

3:50 p.m. Break

4:10 p.m. Brachyury-Targeted T-Cell Immune Therapy for Chordoma
Claudia Palena, Ph.D., National Cancer Institute

4:30 p.m. High-Throughput Small Molecule Screening in Chordoma
Chris Austin

4:50 p.m. Panel Discussion
5:15 p.m.  **Poster Session Discussion**  
*Moderator: Chandranath Sen*

A Long-Term Follow-up Study of Skull Base Chordomas Factors Influencing the Survival of Patients with Skull Base Chordoma  
*Jie Tang, M.D., Beijing Tiantan Hospital*

Prognostic Value of Cytogenetic Abnormalities in Skull Base Chordoma  
*Svetlana Pravdenkova, M.D., University of Arkansas for Medical Sciences*

Proton-Beam Irradiation in Treatment of Sacral Chordomas  
*Lilia Loredo, M.D., Loma Linda University Medical Center*

Carbon Ion Radiotherapy for Sacral Chordomas  
*Tadashi Kamada, Peace College*

Carbon Ion Treatment Workflow and Future Radiation Therapy Concepts in the Treatment of Chordomas in Germany  
*Anna Nikoghosyan, M.D, University of Heidelberg*

Anatomic Study About the Construction, Distribution, and Anastomosis of Arteries that Supply Sacrum  
*HuLIN Yang, First Affiliated Hospital of Soochow University*

Investigation of the Biomechanical Implications of Sacrectomy and Study of Biomechanical Rationale for Sacral Prosthesis After Total Sacrectomy  
*HuLIN Yang, First Affiliated Hospital of Soochow University*

Ecchordosis Physaliphora Sphenooccipitalis Versus Benign Notochordal Cell Tumor  
*Takehiko Yamaguchi, M.D., Ph.D., Sapporo Medical University School of Medicine*

6:05 p.m.  **Summary of the Day and Outline for Friday**  
*Paul Meltzer and Simone Sommer*

6:15 p.m.  **Adjourn to Marriott Bethesda North Hotel and Conference Center**

7:00 p.m.  **Dinner and Guest Speaker: From Bench to Bedside—the Development ErbB2 Kinase Inhibitors**  
*Neil Spector, M.D., Duke University Cancer Center*
Friday, April 4, 2008

7:15 a.m.  Registration and Continental Breakfast

8:00 a.m.  Review of Thursday and Instructions for Friday
            Paul Meltzer and Simone Sommer

SESSION V: LOCAL CONTROL OF CHORDOMA
            Moderator: Fran Hornicek, M.D., Ph.D.

8:15 a.m.  Surgical Advances for Chordomas in Base of Skull Surgery
            Amin Kassam, M.D., University of Pittsburgh Medical Center

8:35 a.m.  Surgical Advances for Chordoma of the Spine
            Jean-Paul Wolinsky, M.D., Johns Hopkins University

8:55 a.m.  Radiation Therapy in the Management of Chordomas
            Tom DeLaney, M.D., Massachusetts General Hospital

9:15 a.m.  Panel Discussion

SESSION VI: NEW APPROACHES TO CHORDOMA THERAPY
            Moderator: Deric Park

9:45 a.m.  Liposomes: A Platform for Imaging and Treating Chordoma
            Srinivasan Mukundan, Ph.D., M.D., Duke University Medical Center

10:00 a.m. Can the HMW-MAA Help Us Counteract the Immunoescape Mechanisms Used by Tumor Cells?
            Soldano Ferrone, M.D., Ph.D., University of Pittsburgh Medical Center

10:15 a.m.  Break

10:30 a.m.  Signaling Pathways in Chordoma for Therapeutic Intervention
            Neil Spector, M.D., Duke University Cancer Center

10:50 a.m.  Treatment Development for Chordoma Using Sarcoma Research Paradigms
            Laurence Baker, D.O., University of Michigan

11:10 a.m.  Panel Discussion

SESSION VII: DEVELOPING CHORDOMA PRACTICE GUIDELINES
            Moderator: Dean Chou, M.D., University of California, San Francisco

11:30 a.m.  Pathology Consensus Report
            Andrew Rosenberg, M.D

11:50 a.m.  Developing Chordoma Practice Consensus Guidelines
            Fran Hornicek, M.D., Ph.D
12:10 p.m.  Specific Considerations for Pediatric Chordoma Patients
*Amin Kassam, M.D, Chandranath Sen, M.D, and Norbert Liebsch, M.D., Ph.D., Massachusetts General Hospital*

12:30 p.m.  Panel Discussion

12:50 p.m.  Lunch

1:50 p.m.  Breakout Working Groups

1—Clinical Management
*Co-Chairs:*
*Franco DeMonte*
*Tom DeLaney*

2—Mechanisms of Disease
*Co-Chairs:*
*Derek Stemple*
*Dilys Parry*

3—Therapeutic Development
*Co-Chairs:*
*Mike Kelley*
*Larry Baker*

3:20 p.m.  Break

3:50 p.m.  Breakout Working Groups Resume

5:20 p.m.  Summary of the Day and Preparation for Saturday
*Paul Meltzer*

5:30 p.m.  Adjourn to Marriott Bethesda North Hotel and Conference Center

6:30 p.m.  Dinner
Saturday, April 5, 2008

7:15 a.m.   Registration and Continental Breakfast

8:30 a.m.   Summary of Friday and Outline of Action Plan
             Paul Meltzer

BREAKOUT GROUP REPORTS
             Moderator: Paul Meltzer

8:40 a.m.   1—Clinical Management
             Franco DeMonte & Tom DeLaney

9:20 a.m.   2—Mechanisms of Disease
             Derek Stemple & Dilya Parry

10:00 a.m.  3—Therapeutic Development
             Mike Kelley & Larry Baker

10:40 a.m.  Strategies for Resource Development
             Isis Mikhail, M.D., M.P.H., Dr.P.H., National Cancer Institute

11:20 a.m.  Break

11:35 a.m.  Action Planning-Agree on Research Priorities and Define Next Steps
             Moderators: Mike Kelley, Amin Kassam, Fran Hornicek, and Simone Sommer

12:45 p.m.  Adjourn to Marriott Bethesda North Hotel and Conference Center

1:00 p.m.   Lunch with Chordoma Community Conference Participants

2:30 p.m.   The Chordoma Foundation’s Chordoma Community Conference: Together We Will Find a Cure