

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 Loreda, 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**
Huilin 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**
Huilin 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 & Dilys 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**