



Faculty Development

Sponseller Professorship in Pediatric Orthopaedics

Rationale:

This professorship will provide **ongoing salary support for a faculty surgeon** to devote time to research. It will free the recipient from needing to generate clinical income, and allow a focus on a particular area.

This recipient will be an established, successful researcher. It is a major ingredient for a successful research career at Hopkins.

Specific Needs

\$ 2.5 million to endow the professorship

Postdoctoral Fellow Training Grants

Rationale:

In order to train competent scientists in the field of Genetic Skeletal Disorders and Matrix Biology, **young scientists need to spend two to three years in the laboratory after completing a Ph.D.** This time puts them on the track to becoming a professor.

The attainment of a research grant and independent funding is a big step which requires protected time and support. Usually this effort is repaid by many years of productive research.

Specific Needs

\$ 250,000 to provide seed money for three (3) yrs training & lab equipment.

Associate & Assistant Professorships: Skeletal Matrix Biology

Rationale:

In genetic disorders of the skeleton, matrix (the basic tissue of bone and ligaments) is abnormally formed. Our understanding of this process can be greatly improved through research. **There is great potential for medical treatments which can make bone and ligament stronger**, lessening the need for surgery. **Research teams are needed** to work on several disorders because of common themes.

Establishment of an **Associate Professorship** will allow a **young, promising faculty member** to focus his or her career in this area.

Establishment of an **Assistant Professorship** in Skeletal Matrix Biology will allow a **new faculty** to work along side of Clinician Scientists, to develop research projects which can then go on to become grant funded.

Specific Needs

\$ 1.5 million gift as an endowment for each faculty position



NEW FUTURES FOR PEDIATRIC ORTHOPAEDICS

Philanthropy



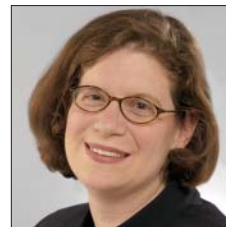
Paul D. Sponseller, M.D.
Professor
Vice Chair, Department of
Orthopaedic Surgery



Michael Ain, M.D.
Assistant Professor



Nancy Miller, M.D.
Associate Professor



Arabella Leet, M.D.
Assistant Professor



M. Catherine Sargent, M.D.
Assistant Professor

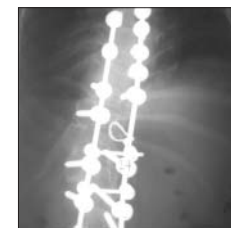
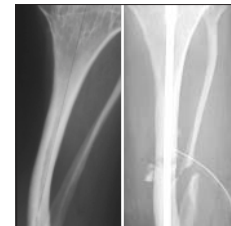
has always played a crucial role in supporting the Johns Hopkins University's tripartite mission: patient care, education, and research. Gifts from our donors (people like you) allow us to make significant discoveries in the laboratory and to apply the results in the clinic.

Some people give money to Hopkins out of gratitude. Giving is their way of saying thank-you for the care they have received. Others give because they are frustrated that a cure or treatment regimen has not yet been identified.

Your gift, large or small, could support a specific initiative, enable us to purchase a piece of highly specialized equipment, or help a young researcher create the next breakthrough. Gifts of any amount are welcomed.

It takes huge financial resources to conduct research of the caliber that we do at Johns Hopkins. Thank-you for helping us to be the best.

Paul D. Sponseller, M.D.



Research Projects &

Understanding the History of Genetic Disorders of the Skeleton

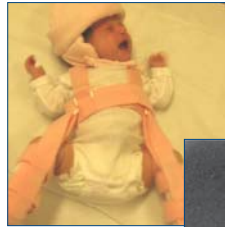
Rationale:

Inheritance determines our future. Genetic disorders of the skeleton affect peoples' health increasingly as they age. **Little is known about the natural history of these bone and joint problems.**

Filling this gap is one of the main goals of our division. Knowledge of this area will help guide treatment for the spine, hip, knee and other areas.

Specific Needs

\$500,000 for personnel, supplies



Marfan Skeletal Pathogenesis

Rationale:

Marfan syndrome changes the growth of the skeleton in many ways. Spinal curvature, foot deformity, and joint pain may develop.

We are specifically looking at a mouse model for this condition which will allow us to understand this syndrome better. By studying its spinal features **we will be able to test interventions which may decrease pain and deformity in this syndrome.**

Specific Needs

\$250,000 for personnel, supplies & core services



Resources for the Future

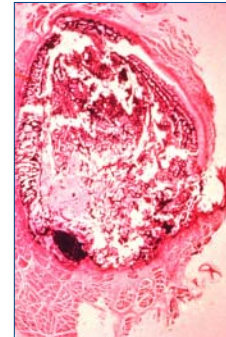
Molecular Biology / Adult Stem Cells in Orthopaedics

Rationale:

Dr. Arabella Leet studies the **origins of bone disorders such as fibrous dysplasia and osteogenesis imperfecta.** She is investigating progenitor (ancestor) cells that form bone. These cells, found in children and adults, hold great promise for tissue engineering in the future and **medical treatments that could decrease the need for surgery.**

Specific Needs

Laboratory Equipment & Supplies	\$50,000
Research Technologist	\$50,000 per yr
Post-Doctorate Fellow	\$75,000 per yr



Scoliosis Gene Typing Bank

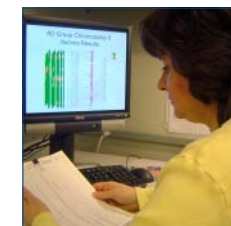
Rationale:

For over a decade, researchers at Johns Hopkins Division of Pediatric Orthopaedics have collected blood samples and x-rays in order to try to understand the causes of **Idiopathic Scoliosis, the mysterious disorder which causes twisting of the spinal column of growing children.**

Correlating spinal curvatures with specific points on the DNA map is one of our goals. We can then develop methods to slow, stop or even correct curves as safely and effectively as possible, **perhaps, even preventing surgery!**

Specific Needs

Laboratory Equipment	\$50,000
Research Technologist	\$50,000 per yr
Post-Doctorate Fellow	\$75,000 per yr



Pediatric Spine Disorders Electronic Database

Rationale:

Information on orthopaedic spine and genetic disorders is crucial to improving our knowledge of the natural history.

We are collecting data on spinal deformities over the course of growth. As time goes on, this data will become increasingly helpful. We will be able to identify problems earlier and provide better recommendations for treatment.

Specific Needs

Database Manager	\$45,000 per year
Statistical Expertise	\$ 5,000 per year

Gifts in the form of checks may be made out to "The Johns Hopkins Pediatric Orthopaedic Fund" and sent to Dr. Paul D. Sponseller, 601 North Caroline Street, 5212 JHOC, Baltimore, MD, 21287-0765.

You may also make a donation through our website at: <http://www.hopkinsmedicine.org/orthopedicsurgery/gift.html>

All of our clinical, teaching and research professionals thank you for your partnership.