**NERGG 45th Annual Educational Conference 2022 Program Objectives**

| **SESSION** | **SPEAKER(S)** | **OBJECTIVES**  Participants will be able to… | **NSGC CONTACT**  **HOURS (pending approval)** |
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| Sickle Cell Disease: Overview, Treatment, and Future Directions | Jean-Antoine Ribeil, MD | 1. Identify the etiology and sequelae of Sickle Cell Disease 2. Examine treatment options for SCD, including medication, transplant, and gene therapy | 1 |
| The Personal Genetics Education Project at Harvard Medical School | Marnie Gelbart, PhD  Robin Bowman, M.Ed. | 1. Define the social and personal impacts of genetics; 2. List strategies for engaging with students and communities about the benefits and concerns related to personal genetics | 1 |
| Beyond the Pale: A Closer Look at Albinism | Karen Bly, BS, BA  Kaitlin O’Connell, MS, CGC Lee Laughlin, MEd  Alix Laughlin, RN | 1. Identify derivatives of albinism 2. Examine components of genetic counseling for people with albinism 3. List resources and supports for people with autism | 1 |
| Prenatal Exome Testing | Erin Ryan, MS, CGC, LGC | 1. List clinical indications for prenatal exome testing 2. Identify the most common diagnoses resulting from prenatal exome testing | 1 |
| CANNEW: research updates | Maya Chopra, MBBS, FRACP  Olaf Bodamer, MD, PhD | 1. Examine a framework for the   evaluation and prioritization of NDD genes for gene-based therapy.   1. Outline current programs of the National Organization for Rare Disorders (NORD) Rare Disease Center of Excellence at Boston Children’s Hospital | 1 |
| The Genetics of Spina Bifida | Richard Finnell, PhD  Elizabeth Ross, MD, PhD  Jean Bertschmann, BA  Judy Thibadeau, RN, MN  Nathan and Julia Bellerose | 1. Summarize the epidemiology of  Spina Bifida  2. Indicate genetic pathways  involved in Spina Bifida  3. Identify research into the causes  of neural tube defects  4. Illustrate resources available to  individuals with Spina Bifida | 1.25 |
| The Genetics of Autism | Naomi Meeks, MD  Ryan Doan, PhD  Brenda Dater, MPH, MSW  Paul Micallef, BE, BTech | 1. State the current understanding of the role of genetics in autism, to include evaluation and testing 2. Examine the contribution of non-coding regions of the exome related to autism 3. Summarize services and supports available to individuals with autism 4. Examine the experience of a late-diagnosed adult with autism | 1.25 |
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