

## **CURRICULUM VITAE**

### **EISTINE BOATENG**

#### **PERSONAL INFORMATION:**

- E-MAILS: eistineb@yahoo.com,  
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- NATIONALITY: Ghanaian
- LANGUAGES SPOKEN: English (fluent), Deutsch (B2-level)

#### **CAREER OBJECTIVE:**

To contribute to scientific knowledge through research in molecular mechanisms of diseases

#### **SKILLS & QUALITIES:**

- Good analytical skills
- Soft skills
- Imaginative and a good motivator
- Good critical thinking and writing ability

#### **EDUCATION/TRAINING:**

- 2013-2019 JUSTUS LIEBIG UNIVERSITY, GIESSEN, GERMANY (PhD.)
- 2018-2019 UNIVERSITY OF ALABAMA, BIRMINGHAM, USA (Visiting Scientist)
- 2014-2017 MOLECULAR BIOLOGY AND MEDICINE OF THE LUNG (MBML)
- 2013-2016 INTERNATIONAL GIESSEN GRADUATE CENTRE FOR THE LIFE SCIENCES (GGL)
- 2009-2011 UNIVERSITY OF GHANA MEDICAL SCHOOL (Master of Philosophy, Anatomy)
- 2004-2008 UNIVERSITY OF GHANA, LEGON (BSc.)
- 2000-2003 PRESBYTERIAN BOYS' SECONDARY SCHOOL, LEGON (Senior high school certificate)

#### **MEMBERSHIP:**

American Association of Anatomists  
Pulmonary Vascular Research Institute (Young Council Member)

#### **COMPUTER LITERACY:**

Microsoft word, Excel and Powerpoint, Photoshop and other software (SPSS, GraphPad Prism, Endnote, ZEN blue software for imaging with confocal microscope)

**RESEARCH SKILLS (LABORATORY TECHNIQUES):**

Western blotting  
 Real time PCR  
 Semi quantitative PCR  
 Immunofluorescence (cells and tissues)  
 Mouse handling (intraperitoneal injection of naphthalene to mice, mouse health check, embryonic and adult lung dissection/isolation)  
 Tissue processing, paraffin embedding and tissue sectioning  
 Cell culture (primary human lung fibroblasts and A549, HepG2, Hepa1-6, H4IIEC3 cell lines)  
 siRNA and plasmid transfections into cells  
 Cell treatment (TGF- $\beta$ 1, TNF- $\alpha$ , Aminotriazole, H<sub>2</sub>O<sub>2</sub>, PPAR ligands, lipids)  
 Fluorescence microscopy and Confocal laser scanning microscopy with ZEN blue software  
 Assays: Sircol collagen assay, Luciferase reporter assay, Catalase activity assay, BrdU assay, Hydrogen peroxide assay, Dihydroethidium assay, MTT assay, Lactate dehydrogenase (LDH) cytotoxicity assay

**RESEARCH INTERESTS:**

Research in molecular pathways of diseases and lung development

- PPARs and peroxisomal signaling pathways
- Sonic hedgehog signaling
- FGF10 signaling
- Pathways related to allergy and asthma development

**PUBLICATIONS:****Abstract Publication:**

1. **Boateng E.**, Addai F.K., Hottor B.A. (2012). Sexually Dimorphic Anthropometric Measurements and Testosterone/Oestrogen Ratios in Young Adult Ghanaians. *Clinical Anatomy* 25:918–928.

**Journal Articles:**

1. Oruqaj G, Karnati S., Vijayan V., Kotarkonda L., **Boateng E.**, Zhang W., Ruppert C., Günther A., Shi W., Baumgart-Vogt E. (2015). Compromised peroxisomes in idiopathic pulmonary fibrosis- a vicious cycle inducing a higher fibrotic response via TGF- $\beta$ 1 signaling. *PNAS USA* 21; 112(16): E2048–E2057.
2. **Eistine Boateng**, Natalia El-Merhie, Omelyan Trompak, Srinu Tumpara, Michael Seimetz, Adrian Pilatz, Eveline Baumgart-Vogt, Srikanth Karnati.

(2016). Targeting PPAR $\gamma$  in Lung fibroblasts: Prospects of therapeutic treatment for IPF. *PVRI Chronicle* 3: 2.

3. Natalia El-Merhie, **Eistine Boateng**, Srinu Tumpara, Omelyan Trompak, Michael Seimetz, Adrian Pilatz, Eveline Baumgart-Vogt, Srikanth Karnati. (2016). Diagnosis and markers for the assessment of COPD: can a consensus be reached? *PVRI Chronicle* 3: 2.
4. Thomas Volckaert, Tingting Yuan, Jie Yuan, **Eistine Boateng**, Seantel Hopkins, Jin-San Zhang, Victor J. Thannickal, Reinhard Fässler, Stijn P. De Langhe (2019). Hippo signaling promotes lung epithelial lineage commitment by curbing Fgf10 and  $\beta$ -catenin signaling. *Development* 146 (2): dev166454.