

## **SUMBLA FAROOQ SHEIKH, PhD**

MNF,  
Ob dem Himmelreich 7,  
D- 72074  
Tubingen,Germany  
Phone no. +4970712972899  
Sumbla.Sheikh@med.uni-tuebingen.de

Date of Birth: 15 September, 1968  
Nationality: German



### **OBJECTIVE:**

My aim is to involve myself actively in the development of research and academia. I want to contribute in providing international quality educational opportunities to our young generation.

### **RESEARCH INTERESTS:**

I have over 25 years of teaching and administrative experience. Presently my assignments involve the design and synthesis of peptide sequences using fluorescent labels and imaging agents for the early detection and treatment of cancer with special focus on prostate cancer and glioblastomas. To study the therapeutic and diagnostic use of such novel peptide conjugates. The techniques employed are magnetic resonance imaging, fluorescence imaging and flow cytometry. Special interest in confocal laser scanning microscopy and fluorescence activated cell sorting.

### **PERSONAL QUALITIES:**

Reliable group member. I can collaborate and work well with all personnel.  
I possess appropriate organizational, verbal and written communication skills and can work independently.  
Well-developed intellectual resources and abilities.  
Confidence to assign effectively, to support and

empower others to achieve their best.  
Strong leadership ability and management skills.

## **WORK EXPERIENCE:**

April 2012- to date

**Research Scientist,  
Molecular Imaging Laboratory,  
Neuroradiology, University Hospital,  
Tuebingen, Germany**

2007- 2011

**Ph D Scholar (DAAD)  
Eberhard Karls University, Tuebingen,  
Germany**

2004 - 2007

**COMSATS Institute of Information  
Technology, Islamabad:  
Senior Research Associate  
and Principal Investigator for the project  
'Synthesis of novel derivatives of  
Harmaline and the study of their  
biological activity' under the supervision of  
Prof Atta-ur-Rahman FRS, NI, HI, SI, TI,  
UNESCO Science Laureate.**

2003 - 2004

**Bahria Foundation College, Satellite  
Town, Rawalpindi  
Worked as Principal**

1997 - 1999

**University College, Bloomfield Hall,  
Lahore  
Worked as Lecturer**

1995 - 1997

**Pakistan Education Academy, Dubai,  
UAE  
Worked as Senior Science Teacher**

1993 -1995

**Army Burn Hall College Abbottabad,  
Pakistan  
Worked as a Lecturer**

1992 - 1993

**Islamia University Bahawalpur, Pakistan**  
Worked as a **Research Associate**

## **EDUCATION:**

2007 - 2013

**Eberhard-Karls University, Tuebingen, Germany.** PhD thesis completed under the supervision of Prof. Dr. med. Stefan Heckl

Title: '**Synthesis and evaluation of novel conjugates for tumor specific magnetic resonance and fluorescence imaging**'

*(Magna-cum-Laude)*

1989 -1991

**Islamia University, Bahawalpur**

Master's Thesis written on '**Studies on Serum Alkaline Phosphatase**'

M.Sc. Chemistry *(1<sup>st</sup> div.)*

1986 -1988

**Islamia University, Bahawalpur**

B.Sc. Chemistry, Zoology, Botany, English Literature. *(1<sup>st</sup> div.)*

1984 -1986

**Govt. College for Women, Bahawalpur**

H.S.S.C *(1<sup>st</sup> div.)*

1974 -1984

**Dominican Convent School, Bahawalpur**  
S.S.C. *(1<sup>st</sup> div.)*

## **LANGUAGES:**

- English**
- German**
- Urdu**
- Punjabi**

## PROFESSIONAL COURSES:

### **FELASA B Course Certification**

(Federation of European Laboratory Animal Science Associations, for Category B) directed for persons who will be responsible for carrying out experimental and other scientific procedures on living animals.

## ACADEMIC APPOINTMENTS:

### **Adjunct Professor**

International Center for Chemical and Biological Sciences, University of Karachi, Karachi, Pakistan

## ARTICLES PUBLISHED:

- [1] **Sumbla Sheikh**, Alexander Sturzu, Hubert Kalbacher, Thomas Nägele, Christopher Weidenmaier, Marius Horger, Christian Schwentner, Ulrike Ernemann, Stefan Heckl. A novel fluorescence-labeled curcumin conjugate: synthesis, evaluation and imaging on human cell lines. *Curr. Pharm. Des.* **2018**.
- [2] **Sumbla Sheikh**, Alexander Sturzu, Hubert Kalbacher, Thomas Nägele, Christopher Weidenmaier, Marius Horger, Christian Schwentner, Ulrike Ernemann, Stefan Heckl. Fluorescein-labeled Bacitracin and Daptomycin Conjugates: Synthesis, Fluorescence Imaging and Evaluation. *Med. Chem.* **2016**, *13(1)*, 57-64.
- [3] Alexander Sturzu<sup>+</sup>, **Sumbla Sheikh<sup>+</sup>**, Hartmut Echner, Martin Deeg, Thomas Nägele, Christopher Weidenmaier, Christian Schwentner, Marius Horger, Ulrike Ernemann, Stefan Heckl. Chemosensitization of prostate carcinoma cells with a receptor-directed Smac conjugate. *Med. Chem.* **2016**, *12(5)*, 412-8.

- [4] **Sumbla Sheikh**<sup>+</sup>, Alexander Sturzu<sup>+</sup>, Hubert Kalbacher, Thomas Nägele, Christopher Weidenmaier, Marius Horger, Ulrike Ernemann, Stefan Heckl. Fluorescence imaging of human cells with a novel conjugate of the antifungal Nystatin. *Med. Chem.* **2014**, *10*(4), 348-54.
- [5] Alexander Sturzu, Uwe Klose, **Sumbla Sheikh**, Hartmut Echner, Hubert Kalbacher, Martin Deeg, Thomas Nägele, Christian Schwentner, Ulrike Ernemann, Stefan Heckl. The gastrin/cholecystokinin-B receptor on prostate cells--a novel target for bifunctional prostate cancer imaging. *Eur. J. Pharm. Sci.* **2014**, *52*, 69-76.
- [6] Alexander Sturzu<sup>+</sup>, **Sumbla Sheikh**<sup>+</sup>, Hartmut Echner, Thomas Nägele, Martin Deeg, Bushra Amin, Christian Schwentner, Marius Horger, , Ulrike Ernemann, Stefan Heckl. Rhodamine-marked bombesin: a novel means for prostate cancer fluorescence imaging. *Invest. New. Drugs.* **2014**, *32*(1), 37-46.
- [7] **Sumbla Sheikh**, Alexander Sturzu, Hubert Kalbacher, Uwe Klose, Thomas Nägele, Bushra Amin, Martin Deeg, Marius Horger, Ulrike Ernemann, Stefan Heckl. Ramoplanin imaging conjugates--synthesis and evaluation. *Med. Chem.* **2014**; *10*(1), 18-26
- [8] Alexander Sturzu<sup>+</sup>, **Sumbla Sheikh**<sup>+</sup>, Hartmut Echner, Thomas Nägele, Martin Deeg, Christian Schwentner, Marius Horger, Ulrike Ernemann, Stefan Heckl. Novel bougeonal fragrance conjugates for the detection of prostate cancer. *Invest. New Drugs*, **2013**; *31*(5), 1151-7.
- [9] **Sumbla Sheikh**, Alexander Sturzu, Uwe Klose, Hartmut Echner, Martin Deeg , Thomas Nägele, Marius Horger, Christian Schwentner, Ulrike Ernemann, Wolfgang Voelter, Stefan Heckl. Evaluating the diagnostic and chemotherapeutic

potential of vancomycin-derived imaging conjugates. *Med. Chem.* **2012**, *8*, 1163-70.

- [10] Alexander Sturzu, **Sumbla Sheikh**, Uwe Klose, Hartmut Echner, Hubert Kalbacher, Thomas Nägele, Marius Horger, Ulrike Ernemann and Stefan Heckl. Using the neurotransmitter serotonin to target imaging agents to glioblastoma cells. *Invest. New Drugs*, **2012**, *30*, 2141-7.
- [11] Alexander Sturzu<sup>+</sup>, **Sumbla Sheikh**<sup>+</sup>, Uwe Klose, Hartmut Echner, Martin Deeg, Thomas Nägele, Marius Horger, Ulrike Ernemann, Stefan Heckl. Novel gastrin receptor-directed contrast agents - potential in brain tumor magnetic resonance imaging. *Med. Chem.* **2012**, *8*, 133-7.
- [12] Alexander Sturzu<sup>+</sup>, **Sumbla Sheikh**<sup>+</sup>, Uwe Klose, Hartmut Echner, Hubert Kalbacher, Martin Deeg, Thomas Nägele, Marius Horger, Christian Schwentner, Ulrike Ernemann, Stefan Heckl. Potential of the gastric motility drug lorglumide in prostate cancer imaging. *Eur. J. Pharm. Sci.* **2012**, *45*, 575-80.
- [13] Alexander Sturzu, Hartmut Echner, Uwe Klose, **Sumbla Sheikh**, Thomas Nägele, Christian Schwentner, Ulrike Ernemann and Stefan Heckl. A novel lily-of-the-valley fragrance contrast agent for magnetic resonance and fluorescence imaging of prostate cancer cells. *Curr. Pharm. Biotechnol.* **2012**, *13*, 373-7.
- [14] Alexander Sturzu, **Sumbla Sheikh**, Ulrich Vogel, Hartmut Echner, Alireza Gharabaghi, Alexander Beck, Thomas Nägele, Ulrike Ernemann and Stefan Heckl. *In Vivo* applied positively charged FITC-labeled peptide conjugates show artificial relocation in frozen sections. *Lett. Drug Des. Discov.* **2012**, *9*, 517-526.

<sup>+</sup>Authors contributed equally

